ECR 2015 will be a green meeting designed to meet environmental sustainability criteria set by the Österreichisches Umweltzeichen (Austria’s national eco-friendly certificate).
WILLKOMMEN
IN WIEN
<table>
<thead>
<tr>
<th>Time</th>
<th>Wednesday, March 4</th>
<th>Thursday, March 5</th>
<th>Friday, March 6</th>
<th>Saturday, March 7</th>
<th>Sunday, March 8</th>
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<tbody>
<tr>
<td>14:00</td>
<td>E³ - ECR Academies</td>
<td>E³ - ECR Academy</td>
<td>E³ - ECR Academies</td>
<td>E³ - ECR Academies</td>
<td>E³ - EDIR Prep Session</td>
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<td>14:30</td>
<td>E³ 720, E³ 721</td>
<td>E³ 418</td>
<td>E³ 818, E³ 819, E³ 820, E³ 821</td>
<td>E³ 1618, E³ 1621, E³ 1622</td>
<td>E³ 1923</td>
</tr>
<tr>
<td>15:00</td>
<td>Siemens Healthcare</td>
<td>Special Focus Session</td>
<td>E³ - ECR Master Class</td>
<td>E³ - ECR Master Class</td>
<td>E³ - EDIR Prep Session</td>
</tr>
<tr>
<td>15:30</td>
<td>Symposium - Breast Care Day</td>
<td>Professional Challenges Sessions</td>
<td>E³ 826</td>
<td>E³ - Rising Stars Programme</td>
<td>E³ - Rising Stars Programme</td>
</tr>
<tr>
<td>16:00</td>
<td>Siemens Healthcare</td>
<td>Student Session 1</td>
<td>Student Session 2</td>
<td>Basic Session 3</td>
<td>Student Final Session</td>
</tr>
<tr>
<td>16:30</td>
<td>Symposium - Breast Care Day</td>
<td>Scientific Sessions (700)</td>
<td>Special Focus Sessions</td>
<td>State of the Art Symposium</td>
<td>Refresher Courses (1500)</td>
</tr>
<tr>
<td>17:00</td>
<td>E³ - ECR Academies</td>
<td>Multimedia Classroom MM 7</td>
<td>E³ - Rising Stars Programme</td>
<td>SA 12</td>
<td>Multimedia Classroom MM 15</td>
</tr>
<tr>
<td>17:30</td>
<td>E³ 418</td>
<td>ESOR Session</td>
<td>E³ 826a, E³ 826b, E³ 826c, E³ 826d</td>
<td>Special Focus Session</td>
<td>EuroSafe Imaging Session</td>
</tr>
<tr>
<td>17:45</td>
<td>E³ 418</td>
<td>EuroSafe Imaging Session</td>
<td>E³ - Rising Stars Programme</td>
<td>SF 12</td>
<td>Joint Session: ESR/ESTRO</td>
</tr>
<tr>
<td>18:00</td>
<td>Siemens Healthcare</td>
<td>E³ 728</td>
<td>E³ - ECR Master Class</td>
<td>Professional Challenges Sessions</td>
<td>Refresher Courses (1600)</td>
</tr>
<tr>
<td>18:30</td>
<td>Symposium - Breast Care Day</td>
<td>Opening Ceremony</td>
<td>E³ 826</td>
<td>PC 12a, PC 12b</td>
<td>EuroSafe Imaging Session</td>
</tr>
<tr>
<td>19:00</td>
<td></td>
<td>Presentation of Honorary Members: N. Reed Dunnick; US Tae-Hwan Lim; KR Anne G. Osborn; US</td>
<td>Professional Challenges Sessions</td>
<td>Professionals</td>
<td>Joint Session: ESR/ESTRO</td>
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27th European Congress of Radiology

CONGRESS VENUE
Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

CONGRESS LANGUAGE
English

ONSITE OPENING HOURS

Registration
Tuesday, March 3 ......................... 12:00–18:00
Wednesday, March 4 .................... 07:00–18:00
Thursday, March 5 to Sunday, March 8 .................... 07:30–18:00

Preview Centre
Tuesday, March 3 ......................... 12:00–18:00
Wednesday, March 4 to Sunday, March 8 .................... 07:30–18:00

EPOS™ – Scientific Exhibition
Wednesday, March 4 to Sunday, March 8 .................... 08:00–18:00

Technical Exhibition
EXPO Halls and EXPO Foyer D
Thursday, March 5 to Saturday, March 7 ........................ 10:00–17:00
Sunday, March 8 ............................. 10:00–14:00

Technical Exhibition
First Level (Gallery)
Wednesday, March 4 .................... 14:00–17:00
Thursday, March 5 to Sunday, March 8 .................... 10:00–17:00

Travel Service
Tuesday, March 3 ......................... 12:00–18:00
Wednesday, March 4 to Saturday, March 7 .................... 07:30–18:00
Sunday, March 8 ............................. 07:30–16:00

Press Office & Business Centre
Wednesday, March 4 to Sunday, March 8 .................... 08:00–18:00

ONSITE OPENING HOURS

SECTIONS IN JOINT SPONSORSHIP WITH

CIRSE Cardiovascular and Interventional Radiological Society of Europe
EFOMP European Federation of Organisations for Medical Physics
EFRS European Federation of Radiographer Societies
ESCR European Society of Cardiac Radiology
ESER European Society of Emergency Radiology
ESGAR European Society of Gastrointestinal and Abdominal Radiology
ESHNR European Society of Head and Neck Radiology
ESMOFIR European Society of Molecular and Functional Imaging in Radiology
ESNR European Society of Neuroradiology
ESOI European Society of Oncologic Imaging
ESPR European Society of Paediatric Radiology
ESSR European Society of Musculoskeletal Radiology
ESTI European Society of Thoracic Imaging
ESUR European Society of Urogenital Radiology
EUSOCI European Society of Breast Imaging
EuSoMII European Society of Medical Imaging Informatics
ISRRT International Society of Radiographers and Radiological Technologists
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As president of the European Society of Radiology (ESR) it is my great privilege to welcome you to our annual meeting, the European Congress of Radiology (ECR).

The ECR is an annual event that the whole international radiological community looks forward to, whether they are attending for the first time or returning after the positive experience of previous years. The international radiological community considers the ECR to be the event that can truly meet their requirements in terms of being brought up to date with radiological science and technology.

The ECR is always a wonderful event but, as I wrote in the ECR 2015 preliminary programme, it is made extra-special this year by marking the 10th anniversary of the European Society of Radiology.

Every year the ECR programme is different than the previous one and it is enriched with new initiatives carried out thanks to the valuable support of the men and women from the Congress Committee, the Programme Planning Committee, the Scientific Committee and Subcommittees, and the ESR Office staff. This year, numerous initiatives have deeply modified the congress programme while of course leaving intact its high scientific standards. Sincere thanks go to Professor Bernd Hamm, the ECR 2015 Congress President, and to those who worked with him throughout almost two years of preparation for the congress.

The ECR also represents the handover point from one ESR President to the next. So, for me, it is the conclusion of a year lived with great enthusiasm, a year during which I received more than I gave. In this time, the constant and fruitful collaboration with the Board of Directors and the Executive Council, efficiently supported by the extraordinary ESR staff, has enabled the achievement of projects that were started in previous years, the consolidation of initiatives that were begun last year, and the launching of new activities that I hope will be continued in future years.

Dear Colleagues and Friends,

This has been a year of big numbers. The ESR has hit a record high in the number of Institutional Member Societies (44), our flagship journal, *European Radiology*, has achieved its highest Impact Factor ever (4.338) and, most significantly, the number of individual ESR members has climbed to 62,793, consolidating our status as the largest radiological society in the world. The third International Day of Radiology (IDOR) celebrated on November 8, in collaboration with RSNA and ACR, has also set a new record of 128 participating Societies from 68 countries. Another high figure this year was the 3,474 people who were able to enjoy ECR 2014 thanks to the expansion of our online streaming service, ECR Live. At ECR 2015, nearly every lecture will be broadcast live and made available to watch on demand afterwards. I very much hope that many of you will make good use of that opportunity and factor some post-congress viewing into your ECR schedule.

The ESR has always considered education to be one of its main activities. Year after year we have developed new educational activities and consolidated existing ones. The European School of Radiology (ESOR) in its eighth year of activity, has continued to grow and now offers an even more diverse range of educational opportunities than ever before, not only in Europe, but also in Asia, the Middle East and Latin America. Following the success of the ESR Learning Centre established in Barcelona in 2013, we are taking steps to expand this project further, with additional centres being opened in Vienna and Bogotá. The opening of a learning centre in Colombia in particular will help us to reach out to more than 12,000 individual ESR members living in Latin America. A new multifunctional educational ‘e-learning platform’ will be launched at ECR 2015, with educational materials structured according to the European Training Curriculum (ETC).

The ETC is a living document and an updated version will be released next March. The European Diploma in Radiology (EDIR) established as a complement to national qualification processes is also gaining in significance, as shown by over 130 candidates at the next EDIR examination during ECR 2015.

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On November 4, at the European Parliament in Brussels, the ESR officially launched a call for a European action plan for medical imaging, to improve quality of care and patient safety, targeting harmonisation in regard to quality and safety, education and training, as well as research and technology. This will significantly improve European healthcare systems and will ensure better quality and safety for patients in Europe. The quality of the imaging equipment available in Europe is a key aspect of this. Updating and upgrading existing equipment will increase access to better healthcare. Raising awareness of radiation protection, as well as promoting best practice in keeping radiation doses as low as possible while maintaining image quality, will benefit patients by directly improving the quality and safety of imaging practice. For this reason, we recently published a paper entitled Renewal of radiological equipment; an important subject well appreciated by many European national societies.

Advances in Information Technology (IT) have revolutionised healthcare in general and within radiology in particular, but have also created new challenges regarding data volume, standardisation, data protection, etc., which require harmonisation efforts on a European scale. The ESR has called upon the EU institutions to endorse the development of Clinical Decision Support (CDS) systems to improve clinical workflow, appropriateness criteria, and training for referrers, to support the harmonisation of coding and terminology and to revise the legal framework for teleradiology.

One of the goals I set myself at the beginning of my presidency was to draw the national societies closer by intensifying dialogue with them. For this reason, the ESR approached its European national societies regarding holding ‘National Society meets ESR’ sessions at their national congresses, based on the model of the traditional ‘ESR meets’ sessions held at the ECR since 2005, in order to further strengthen and improve the relationship between national societies and the ESR.

Another initiative in favour of the less affluent European countries is ‘ESR Support’, with which we aim to improve access to radiological training and educational resources for aspiring physicians and scientists, and to ensure better healthcare for future generations by providing better training opportunities in radiology in less affluent regions.

Finally I would like to give you a very warm welcome to ECR 2015. I hope you will all return home having spent your days updating your professional and scientific knowledge, exploring technological innovations and enjoying the wonderful atmosphere of the city of Vienna in good company.

Lorenzo Bonomo
ESR President
Foreword by the ECR President

It is a great honour for me to welcome you to the European Congress of Radiology (ECR) 2015, the annual meeting of the European Society of Radiology (ESR). As an attendee of every ECR over the last 25 years, I have seen the meeting evolve significantly. I have watched the crowds in the entrance hall and the audiences in the lecture rooms swell to a point where the ECR now regularly attracts more than 20,000 participants. I am confident that this year will be no exception, because the ECR’s deserved reputation is not only for high scientific quality but also for constant innovation in science, education, interactivity, and networking. The 2,935 abstracts we received for this year’s event – the highest number in ECR history – is a great example of that reputation. This very encouraging show of enthusiasm from the radiological community underlines the meeting’s position as one of the best and most popular medical events in the world.

If you have seen the ECR 2015 poster, then you will know that the motto for this year’s congress is ‘radiology without borders’. Today, more than ever before, our specialty transcends the boundaries between countries. Wherever we are in the world, we have always been united by our profession and the effort we all make to drive our field forward, but now we are increasingly working together in a practical sense too; sharing information, learning directly from each other and literally helping each other. I think the ECR is the perfect reflection of this spirit. At the congress there are no boundaries; we are all united by our passion for the specialty.

You may also have noticed that the ECR 2015 poster includes a map of Europe. It is true that in recent years the ECR has become a global event, attracting attendees from far and wide, and really benefitting from the huge range of different experience that is brought together under one roof. But it is worth remembering that this is the annual meeting of the European Society of Radiology and this is where our heart is.

The ESR marks its tenth anniversary at ECR 2015, and I am delighted that we will be celebrating this decade of remarkable achievements together. The internal borders of Europe have been re-drawn many times over the centuries, and as a resident of Berlin, the location of one of the most infamous boundaries in the world, I am very much aware of the negative effect such divisions can have. It is one of the strongest virtues of the ESR that we work hard to overcome barriers and to ensure that everyone can be afforded the same opportunities as each other.

One aspect of the ECR that encapsulates this idea of providing opportunities is the long-running and very popular Invest in the Youth initiative. This year, I am pleased to say that the ESR has decided to put even more into this project than usual and we have therefore been able to invite twice the number of applicants who were invited last year. This is not only excellent news for the participants, but for us as a specialty. The ECR can have a fantastic impact on young people, reinforcing their connection to radiology and stimulating their careers. The more chances like this we can provide, the better it is for us as a community, for progress in radiological research, and ultimately for the patients who we are all working to serve.

An important innovative development this year is the restructuring of the session formats. With the exception of Refresher Courses, most of the educational sessions at the ECR are now grouped under the heading of E³ – European Excellence in Education, and they are now arranged according to the different levels defined by the European Training Curriculum for Radiology. The E³ programme is divided into five branches – Rising Stars, European Diploma Prep Sessions, The Beauty of Basic Knowledge, ECR Academies, and ECR Master Classes – which reflect the different levels of education in radiology, as well as the different stages of an individual’s professional career.
Foreword by the ECR President

The Rising Stars programme is aimed at residents, medical students, and radiographers in training, while the European Diploma Prep Sessions aim to provide preparatory sessions for future European Diploma in Radiology (EDiR) candidates. The content of these programmes reflects level I and II of the European Training Curriculum and the EDiR courses have been put together in close cooperation with the European Board of Radiology. The Beauty of Basic Knowledge programme focuses on knowledge essential to the daily practice of radiology and is best suited to residents and board-certified radiologists. The ECR Academies consist of a series of sessions relevant to a particular area of radiology, suited to general and subspecialised radiologists, with the content mostly corresponding to level III of the European Training Curriculum. Finally, the ECR Master Classes are designed for participants and subspecialists seeking cutting-edge information in specific fields of interest, with one ECR Master Class offered for each subspecialty in radiology (level III and beyond).

This new structure is the result of intense exchange and excellent cooperation between the Congress Programme Planning Committee members and I am very much looking forward to seeing all this hard work and preparation come to fruition. I have no doubt that this will enhance the clarity of the ECR programme (for both participants and speakers) and make for a smoother experience, especially for the many delegates visiting the congress for the first time.

The ECR never fails to inspire and innovate, so I would like to thank everyone who has been involved in the creation of ECR 2015, for ensuring that it will live up to this particular tradition. Thanks to the fantastic efforts of the Congress Programme Planning Committee, the Chairs and members of the Scientific Committee, the Subspecialty Societies and, of course, the dedicated support of ESR office staff.

I offer you a very warm welcome to Vienna and I hope you will enjoy the congress, the many social events, and the rich cultural opportunities the city has to offer. Most of all, I hope you will leave having gained new knowledge, some wonderful experiences and a real sense of 'radiology without borders'.

Bernd Hamm
ECR 2015 Congress President

Bernd Hamm is professor of radiology and chairman of all three merged departments of radiology at the Charité, Humboldt-Universität zu Berlin and Freie Universität (Campus Mitte, Campus Virchow-Klinikum, and Campus Benjamin Franklin). He is also clinical director of four outpatient service facilities in nuclear medicine and radiology at the Charité, as well as scientific and clinical chairman of three imaging centres in Berlin.
TEN YEARS OF ESR

February 2005

Official foundation of the European Society of Radiology (ESR)

TAKE THE ESR WALK OF FAME WITH US AT ECR 2015

PICK UP YOUR OWN STAR AT THE MEMBERSHIP DESK
General Information
ARTS & CULTURE
Delegates are encouraged to visit the Arts & Culture Desk in the entrance hall for information on Vienna's cultural events such as exclusive opera performances, delightful concerts, and the fascinating exhibitions in Vienna's most important and remarkable museums. Pick up your personal Arts & Culture Brochure at this counter to find descriptions of all cultural places.

BADGES & WRISTBANDS
For organisational and security reasons, badges and wristbands must be worn at the congress venue. Access to the different areas will only be granted upon presentation of an appropriate badge and wristband.

Lost or Forgotten Badges
A replacement badge will only be provided if you are wearing your event wristband.

Lost or Forgotten Wristbands
A replacement wristband will only be provided on full payment of the applicable onsite registration fee.

BOOK OF ABSTRACTS
In keeping with the ESR's commitment to environmental sustainability, and due to demand from its members, the Book of Abstracts is only available online. All abstracts can be accessed at www.i3-journal.org/articles. You can also create your own personal Book of Abstracts with the help of the popular ECR Interactive Programme Planner (ipp.myESR.org). Abstracts of EPOS™ presentations no longer appear in the Book of Abstracts. Each full EPOS™ presentation can instead be cited by a Digital Object Identifier (DOI), which appears with the presentation at www.myESR.org/epos.

BOOKSTORE
This year, for the second time, the ECR is offering delegates an outstanding service. The Viennese bookstore Buchkontor will open a special ECR bookstore in the entrance hall of the congress venue. Browse through a wide range of books, from guidebooks on Vienna's best sights to cookbooks full of delicious Austrian recipes. For the more discerning reader, there will also be a range of Austrian literature so you can take some of the country's history and culture home with you. The Buchkontor staff look forward to welcoming you and helping you find that page-turner.

BROADCAST ZONES/ROOMS
The ECR features specific Broadcast Zones/Rooms, where you can listen to sessions and view the corresponding presentation material in a relaxed atmosphere when the actual lecture rooms are overcrowded. Broadcast Zones/Rooms are located next to Room B and C (2nd level), Rooms M and N (1st level), Rooms E1 and F2 (entrance level) and Rooms G and K (lower level). See Floor Plans on pages 43–52.

BUSINESS CENTRE
The Press Office & Business Centre, located on the entrance level, offers copy facilities for a small charge. Opening hours: Wednesday, March 4 to Sunday, March 8 ................. 08:00–18:00

CAFÉS & RESTAURANTS
If you are looking for an ideal meeting point, or if you just want to take a short break, try one of the various foyer cafés and restaurants. They are situated throughout the whole congress venue and on all levels of the building, offering a variety of tasty hot and cold snacks. Please see the ‘coffee-cup’ signs on the Floor Plans on pages 43–52 of this programme to locate the various foyer cafés.

CASE-BASED DIAGNOSIS TRAINING
Please refer to the E³ Rising Stars Programme and see page 109.
CASES OF THE DAY
From Wednesday to Saturday, five Cases of the Day covering different sections of radiology are shown on computer stations in the ECR Live & EPOS Lounge on the 1st level. Participants are invited to submit their diagnoses. The winners will be announced on the ESR website.
We would like to acknowledge the contribution of the following authors to the Cases of the Day:

**Wednesday:**
Case 1: R.M. Kwee, F.M.H.M. Vanhoenacker, M.E.A.P.M. Adriaensen van Roij; Netherlands/Belgium
Case 2: M.D. Monedero Picazo, S. Alandete Germán, F. Delgado Cordón, A. Mesequer Ripollés, M. Graells Ferrer, D. Uceda Navarro; Spain
Case 3: M. Bertolotto; Italy
Case 4: R. Oca Pernas, C. Delgado Sánchez-Gracián, C. Trinidad; Spain
Case 5: J.A. Aguilar, E. Blanc, R. Medina; Spain

**Thursday:**
Case 1: P. Thamm, J.-P. Kühn, N. Hosten; Germany
Case 2: M. Notohamiprodjo, P. Krumm, A. Baur-Melnyk, K. Nikolaou; Germany
Case 3: A. Meseguer, G. Martín, D. Uceda Navarro, E. de la Vía, S. Alandete; Spain
Case 4: O. Nikolić, D. Popović, M. Basta-Nikolić, D. Kozić, K. Petrović, S. Stojanović; Serbia
Case 5: I. Carbonell Casañ, J. Vizuete del Rio; Spain

**Friday:**
Case 1: S. Robinson; Austria
Case 2: J.R. Ayuso; Spain
Case 3: K. Van Looveren, C. Versternmans, F. De Belder, H. Dotremont, P.M. Parizel; Belgium
Case 4: D. Bajramovic, M. Reijnierse; Netherlands
Case 5: P. Franchi, M.G. Mantini, V. Valentini, L. Bonomo, A.R. Larici; Italy

**Saturday:**
Case 1: S.C. Shelmerdine, C.M. Owens; United Kingdom
Case 2: S. Nicolay, C. Versternmans; Belgium
Case 3: P. Calvillo Batllés, J. Carreres Polo; Spain
Case 4: D. Ramos Andrade, P. Donato, F. Caseiro-Alves; Portugal
Case 5: U. Aydingoz; Turkey

**CHURCHES AND RELIGIOUS COMMUNITIES IN VIENNA**
Vienna is a multi-denominational, multi-cultural city. We will be pleased to provide you with information on local religious communities and places of worship at the Travel Service Desk.

**CME ACCREDITATION SYSTEM**
The ESR is happy to introduce our new fully digital CME acquisition system for ECR 2015. Please note that we no longer provide printed CME stickers.
Evaluation and CME acquisition will be possible via
- The official ECR app, ECR 2015, available via the App Store (iOS) and Google play (Android)
- More than 160 laptops in the ECR Live & EPOS Lounge located on the 1st level
- The registration counters on the entrance level from Friday, March 6, 13:00 onwards
- The CME & Evaluation terminals located on the 1st level

Please note that evaluation of the sessions is only possible March 4–9, 2015.

CME credits will only be awarded if
- You are logged into www.webges.com/cslide/ecr2015/myevaluations/login with your username and Personal ID (printed on your badge)
- You have fully completed the electronic questionnaire for each session

See pages 22–23.

**COAT CHECK**
The coat check services are located on the entrance level, in Foyers E and F, as well as on the lower level next to Room D1.

**COMMUNICATION AREAS**
If you are looking for the perfect place to meet and talk with friends or just to relax and browse through ECR Today, ECR 2015 offers areas perfectly equipped for communication and recreation; the ESR Welcome Lounge right in the middle of the entrance hall, and the Rising Stars Lounge on the 2nd level, which welcomes all students, residents and trainees.

**CONFIRMATION OF PAYMENT AND ATTENDANCE**
Congress-related confirmation will be available during and after the congress from the ESR website (www.myESR.org) via the MyUserArea (login with your last name and your Personal ID as printed on your badge).

www.myESR.org
General Information

Information from A–Z

**CONGRESS LANGUAGE**
English

**CONGRESS VENUE**
Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria
Phone: (+43 1) 533 40 64–0
To reach the ACV by public transport from the city centre (Stephansplatz) take the U1 underground line (red line, direction Leopoldau). Get off at Kaisermühlen/Vienna International Centre and take the exit marked Donau-City-Straße. Travelling time: approximately eight minutes.

**‘ECR LIVE’**
After last year’s success, the ESR is once again providing a live streaming service for ECR 2015, under the name ECR Live, in an effort to bring the ECR to everyone. All ECR sessions are being broadcast live via the ESR website, with Facebook and Twitter options integrated into the web interface to provide a fully interactive experience. ECR Live is kindly supported by Siemens and Bayer. Link: live.myESR.org

**ECR LIVE & EPOS™ LOUNGE**
The ECR Live & EPOS™ Lounge has 160 computer terminals where delegates can watch ECR sessions either live or on demand. Enjoy the Lounge’s relaxing atmosphere while you catch up with the congress sessions.

**ECR TODAY**
ECR Today, the popular daily newspaper of the congress, is published from Wednesday to Sunday and distributed in the entrance hall of the congress venue and in the entrance area of the Technical Exhibition. In addition, all issues are available online at www.myESR.org

**ECR 2015 SMARTPHONE APP**
The ECR 2015 App gives iPhone, iPad and Android users a new way to experience the congress. The app is packed with features, including general congress information, scientific and educational programme details, top news stories from ECR Today, full abstracts, and even floor plans of the Austria Center. Please make sure you have Bluetooth enabled, as the app supports iBeacons™ technology. You can download the ECR 2015 App from iTunes/Google Play.

**EFOMP (European Federation of Organisations for Medical Physics) WORKSHOP**
This workshop is the 17th in the series of EFOMP Workshops on ‘New Technology in Diagnostic Radiology’. This year’s workshop is entitled ‘Multi-energy imaging; from physics to diagnosis’. It has been organised by EFOMP in collaboration with the ESR to address the current and future technological requirements for radiology imaging equipment (please refer to pages 163–164).

**‘EFRS MEETS’ SESSION**
After the enormous success at ECR 2013 and 2014, which reflected the good relations between the ESR and the European Federation of Radiographer Societies (EFRS), the EFRS is again hosting a dedicated session. ‘EFRS meets Germany’ underlines the essential role of radiographers in medical imaging. Please refer to page 86 for the programme of the session.

**EIBIR BOOTH**
Visit the EIBIR Booth in the entrance hall for the most recent news on the European Institute for Biomedical Imaging Research.

**EMERGENCY INFORMATION/FIRST AID**
For fire, medical or police assistance, please contact ACV Information or the nearest available ECR or ACV staff member. A medical specialist trained in emergency medicine will be present for the duration of the congress. See Red Cross sign on the Floor Plan page 45.

**EPOS™ – SCIENTIFIC EXHIBITION**
The ECR 2015 electronic scientific exhibition is open Wednesday to Sunday from 08:00 to 18:00. EPOS™ can be accessed via the 160 workstations in the ECR Live & EPOS™ Lounge, which is located on the 1st level. See pages 28–29.

**‘ESR MEETS’ SESSIONS**
The purpose of ‘ESR meets’ is to forge closer ties between the ESR and its guest societies. The three guest nations of this year’s ECR are the Republic of Korea, Turkey and the Congress President’s home country, Germany. There are dedicated sessions for the radiological communities of these nations to demonstrate the excellence of radiology in their countries. In addition, ECR 2015 again features special activities focusing on a partner discipline, providing a platform to establish closer ties. This year’s guest in the series will be the European Association of Urology. Places at these sessions are allocated on a first-come, first-served basis. Please refer to pages 86–87 for the programme of the sessions.

**ESR WELCOME LOUNGE**
Visit the ESR Welcome Lounge in the entrance hall! Whether you are looking for an ideal meeting point or just want to take a short break – the ESR Welcome Lounge will suit your needs. Free wireless LAN is provided for your convenience. Watch out for artistic performances from the ‘ESR meets’ countries during the lunch breaks.

**EUROPEAN BOARD OF RADIOLOGY (EBR)**
Visit the EBR Booth in the entrance hall to learn all about the European Diploma in Radiology (EDiR), how to apply, and where and when the next exams will take place. www.myEBR.org
**EUROPEAN DIPLOMA IN RADIOLOGY (EDIR)**

An examination for the European Diploma in Radiology is being held at ECR 2015. The electronic-based written examination takes place on Tuesday, March 3, in the ECR Live & EPOS™ Lounge on the 1st level, whereas the case-based oral examinations take place Wednesday, March 4 to Friday, March 6, in various rooms on the entrance level in the M Building (See Floor Plan M Building on page 50).

Success in the examination certifies a standard of radiological knowledge deemed appropriate by the ESR for independent practise in general radiology.

www.myEBR.org

**EUROPEAN EXCELLENCE IN EDUCATION (E³)**

The E³ programme emphasises the importance of lifelong learning. It covers the entire range of educational issues, from undergraduate medical education to subspecialised continuing professional development.

The E³ programme consists of the following five branches, which reflect the different levels of education in radiology, as well as the different stages of an individual’s professional career:


The European Diploma Prep Sessions aim to prepare prospective candidates for the European Diploma in Radiology (EDIR).

They are also suitable for residents who want an overview of the various topics relevant to imaging and for those preparing for their national board examinations.

The content of the programme reflects Level I and Level II European Training Curriculum for Radiology (ETC) learning objectives across a two-year cycle. The sessions are held in close cooperation with the European Board of Radiology (EBR).

Each of the six sessions is led by three lecturers and moderated by one chairman.

The Beauty of Basic Knowledge programmes focus on knowledge essential to the daily practice of radiology. The format of these sessions reflects the tradition of conventional teaching sessions, in which an experienced teacher shares his or her insights into a topic of particular relevance with a group of attendees.

A Beauty of Basic Knowledge session typically consists of a 45-minute lecture held by one speaker (plus 15 minutes for conclusions and discussion). The teaching format is usually case-based with some interaction with the attendees.

The content of the sessions is mostly tied to the Level I and Level II European Training Curriculum for Radiology (ETC) learning objectives. The Beauty of Basic Knowledge sessions are suited to residents and board-certified radiologists who want to refresh their knowledge in basic topics of imaging and image-guided therapy.

The programmes will be concluded with a self-assessment test, published in the new platform 'ESR Education on demand'. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

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OPENING CEREMONY

Wednesday, March 4
17:45–19:00, Room A
Information from A–Z

EXPO HALLS & EXPO FOYER D
Opening hours:
Thursday, March 5 to Saturday, March 7: 10:00–17:00
Sunday, March 8: 10:00–14:00

Visit the additional technical exhibition area on the 1st level of the congress venue:
First Level (Gallery)
Opening hours:
Wednesday, March 4: 14:00–17:00
Thursday, March 5 to Sunday, March 8: 10:00–17:00

FREE PUBLICATIONS
The ESR again presents the 'Free Publications' Booth on the 1st level, integrated into the ECR Live & EPOS™ Lounge. Pick up free copies of radiology journals and magazines and get free access to online radiology journals (see page 33).

FUTURE MEETINGS DESK
This area – located in the ECR Live & EPOS™ Lounge on the 1st level – offers you an overview of future meetings in the field of radiology and related disciplines, from all over the world. Feel free to contribute flyers and posters to promote your own meetings and courses.

HEADLINE SESSIONS
For details on the Honorary Lectures by Gerald Antoch, James A. Brink and Anne G. Osborn see page 25.

'INSIGHTS INTO IMAGING'
Insights into Imaging is the ESR’s online journal for education and guidelines. It is open access and PubMed indexed. See page 39.

INDUSTRY WORKSHOPS
At ECR 2015 there are various Industry Workshops scheduled, organised by Bayer HealthCare, Fujifilm Europe, GE Healthcare, Hologic, I.M.S. – Internazionale Medico Scientifica, Siemens Healthcare and Toshiba Medical Systems. Please note that Industry Workshops are no longer CME-accredited. See separate booklet for details.

INTERACTIVE PROGRAMME PLANNER
The ESR is again proud to present this popular interactive tool for ECR 2015. The IPP provides a convenient way to explore and customise the congress programme online, in both traditional browser and mobile device versions. Featuring various search and browse functions for sessions as well as posters, the IPP also includes a ‘basket’ option, which enables users to collate items from the programme to create their own personal calendar and even print a personalised Book of Abstracts.

Link: ipp.myESR.org
Mobile link for smartphones: m.myESR.org

(JUNIOR) IMAGE INTERPRETATION QUIZ
The Image Interpretation Quizzes are two traditional highlights of every ECR. This year’s themes are ‘Couples for Europe’ and ‘Battle for the audience’ (see page 26).

LIABILITY
The ESR and the Austria Center Vienna are free from all liabilities that may arise from the delegates' and presenters’ participation in ECR 2015 and its activities.

LOST AND FOUND
Lost and found articles may be picked up or handed in at the ACV Information Desk located in the entrance area.

MEDITATION & PRAYER ZONE
The Meditation & Prayer Zone is located on the lower level next to Room K. You will find it marked on the Floor Plan page 49.

MEETING ROOMS
Meeting rooms at ECR 2015 are to be found here:

In the Austria Center Vienna
1st level: Meeting Rooms 1.85, 1.86
2nd level: Meeting Rooms 2.11, 2.12, 2.13, 2.14, 2.17, 2.34, 2.61, 2.82, 2.83, 2.95
3rd level: Meeting Rooms 3.32, 3.33, 3.34

In the adjoining M Building
(only available from Wednesday, March 4, to Friday, March 6)
Entrance level: Meeting Rooms M4, M5, M6, MOE 03, MOE 05, MOE 07, MOE 27, MOE 58, MOE 59, MOE 60, MOE 61, MOE 68, MOE 69, MOE 75, MOE 79, MOE 100.

You will find them marked on the Floor Plans (see pages 43–52). Please contact the Info Service Desk at the entrance to the M Building for onsite booking of meeting rooms; from Saturday onwards please contact the Meeting Room Service Desk at the right end of the registration desks.

MEMBERSHIP
For membership application and renewal, please go to the membership desk in the entrance hall.

MINI COURSE
ECR 2015 features again the joint course of the ESR and RSNA (Radiological Society of North America), which will this year focus again on ‘Emergency Radiology’.

The sessions will be interactive with electronic voting/self assessment. Places for all courses are allocated on a first-come, first-served basis. Please refer to pages 127–128 for the course’s programme.
Information from A–Z

MIR @ ECR
After last year’s success, the ESR Subcommittee on Management in Radiology has again organised a special session at the ECR on core managerial issues and supportive methods and techniques. It takes place on Friday, March 6, 13:00–17:30 in Room D2.
See page 27.

MULTIDISCIPLINARY SESSIONS
The concept of these sessions is to promote a multidisciplinary approach to detection and treatment, integrating radiologists and other clinicians to share their expertise.
The topics that are covered this year are: critical limb ischaemia, management of rectal cancer and diffuse interstitial lung disease.
Please refer to pages 101–102 for the programme of the sessions.

MULTIMEDIA CLASSROOM SESSIONS
These sessions represent the latest progress in computer applications at the congress. In this dedicated classroom, participants get a chance to solve cases on workstations, kindly supplied by several different companies.
The aim is to provide direct (doctor-to-doctor) training on the workstation for the interpretation of cases in CT angiography, MDCT in emergencies, cardiac CT and oncologic imaging.
Onsite registration is necessary. Please refer to pages 131–132 for the programme of the sessions.

NEW HORIZONS SESSIONS
The aim of the New Horizons Sessions is to provide practitioners with an overview of the new developments in a specific area of practice e.g. specialty, technique, or disease. These developments may become routine within a few years, or may indicate a new direction for research and clinical application. There are three New Horizons Sessions at ECR 2015, entitled ‘Image-guided interventions of the prostate’, ‘Optical molecular imaging: a new dimension for radiology’ and ‘Comprehensive personalised imaging of cardiothoracic diseases’. Session places are allocated on a first-come, first-served basis. Please refer to page 90 for the programme of the sessions.

OPENING CEREMONY
The ECR 2015 Opening Ceremony will take place Wednesday, March 4, 17:45–19:00 in Room A. ESR Honorary Membership will be awarded to N. Reed Dunnick, Tae-Hwan Lim and Anne G. Osborn.

PRESS
The ECR 2015 Opening Press Conference takes place on Wednesday, March 4, at 09:30 at the Austria Center Vienna, Room 2.95, 2nd level.
For press accreditation, please contact the Press Office & Business Centre on the entrance level. To obtain a press badge, you must present an international press ID or a confirmation letter from the relevant medium.
Delegates and exhibitors may display their press kits in the Press Office & Business Centre. There are also several publicly available computer terminals as well as workspace and plug points for you to work with your personal laptop.
Opening hours:
Wednesday, March 4 to Sunday, March 8: 08:00–18:00

PREVIEW CENTRE
Speakers are reminded to check in at the cSlide Preview Centre’s welcome desk at least three hours prior to their scheduled presentation, even if they have already uploaded their presentation prior to the conference. Three speaker registration workstations will be at the speakers’ disposal, and an additional workstation for last-minute changes and uploads is available.
Onsite presentation upload procedure:
» Check in at the cSlide Preview Centre Welcome Desk to receive your login details and the title of your presentation
» Log into an available computer and upload your presentation
» Presentations can be checked in presenter mode and edited onsite

The Preview Centre is located on the 1st level, next to the ECR Live & EPDS™ Lounge.
Opening hours:
Tuesday, March 3: 12:00–18:00
Wednesday, March 4 to Sunday, March 8: 07:30–18:00

Please note that only digital material will be accepted for oral presentations. Presenters may submit their presentation material, with their login details, prior to the congress. All material must be in English and be provided on CD-ROM, DVD or USB devices. All presentations will be transferred to the session rooms electronically.
The material remains the property of the speakers.

PROFESSIONAL CHALLENGES SESSIONS
These sessions are intended to communicate and exchange issues on radiological training and education, research networking, radiological management and professional developments. This year’s topics are ‘Radiologist: imager or doctor?’, ‘What are the concrete benefits of structured reporting?’, ‘Looking into the future of radiology’, ‘Imaging biobanks: from genomic to radiomic in the era of personalised medicine’, ‘Integration of imaging biomarker activities on a European level’, ‘Imaging in population-based studies’, ‘Personalised medicine in radiology’, ‘Harmonised approach for imaging in Europe: myth or reality?’ and ‘Medicolegal aspects in daily practice’.
Places are allocated on a first-come, first-served basis. Please refer to pages 97–99 for the sessions’ programme.
PUBLIC TRANSPORT
Tickets for public transportation are available online at shop.wienerlinien.at or at any underground station.
Underground map: see page 41.

PUBLISHERS ROW (1ST LEVEL) & PARTNER PUBLISHERS (ENTRANCE LEVEL)
Opening hours:
Wednesday, March 4: .......................... 14:00–17:00
Thursday, March 5 to Sunday, March 8:........... 10:00–17:00
Browse through a wide range of scientific publications displayed by the most important publishers in the field of medicine.

RADIOLOGY TRAINEES FORUM (RTF)
The RTF promotes and coordinates the efforts of radiology trainees at a European level in order to improve the progress of radiology and related sciences. One of the RTF’s most important goals is to provide an equal level of radiological knowledge and skills for radiology trainees all over Europe.
Highlighted Lectures organised by the RTF will be given on Saturday, March 7, 10:30–12:00 in Room M (see page 109).
The RTF General Assembly takes place on Friday, March 6, 10:15–12:45, in Meeting Room 1.85 (1st level). For more detailed information please visit the RTF Meeting Point in the Rising Stars & RTF Lounge on the 2nd level.
Don’t miss the Meet & Greet Sessions with ESR President Lorenzo Bonomo (Friday, March 6, 13:20–13:40) and ECR 2015 Congress President Bernd Hamm (Thursday, March 5, 09:30–10:00).

RECORDING / PHOTOGRAPHY
Video or audio recording of presentations is not allowed without the speaker’s/exhibitor’s and ECR’s prior permission. Flash photography is not permitted during presentations. Interviews must take place outside the lecture room. For queries, please contact the ESR Press Office.

REFRESHER COURSES
72 Refresher Courses have been organised by the various scientific subcommittees for ECR 2015. Based on the topic of the session, some refresher courses are presented in an ‘integrated’ format with an organised panel discussion, similar to Special Focus Sessions.
Places are allocated on a first-come, first-served basis.
Please refer to pages 133–159 for the programme of the sessions.

REGISTRATION OPENING HOURS
Tuesday, March 3: .......................... 12:00–18:00
Wednesday, March 4: ...................... 07:00–18:00
Thursday, March 5: .......................... 07:30–18:00
Friday, March 6: .................................. 07:30–18:00
Saturday, March 7: .......................... 07:30–18:00
Sunday, March 8: .............................. 07:30–18:00

RESTAURANT RESERVATIONS
Our staff at the Dining & Shopping Desk in the entrance hall will be pleased to recommend places to eat close to your hotel or near a certain theatre, and will be happy to reserve a table for you.

RISING STARS LOUNGE / RESIDENTS & STUDENTS LOUNGE
The Rising Stars Lounge for residents and students is located on the 2nd level. In the lounge you will find information on the European School of Radiology, the European Diploma of Radiology and the Radiology Trainees Forum.
Don’t miss the Meet & Greet Sessions with ESR President Lorenzo Bonomo (Friday, March 6, 13:20–13:40) and ECR 2015 Congress President Bernd Hamm (Thursday, March 5, 09:30–10:00).

RISING STARS PROGRAMME

SATELLITE SYMPOSIA
Industrial Satellite Symposia are presented by international companies.
Please note that Satellite Symposia are no longer CME-accredited. Places are allocated on a first-come, first-served basis.
See separate booklet for details.

SCIENTIFIC PRESENTATION AWARDS
The authors of the best scientific papers and scientific/educational exhibits will be presented with a certificate and given free ECR 2016 registration. Scientific Papers: The award will be assigned to the best paper presentation of each topic based on the evaluation by session moderators, subcommittee members and session participants. Selection criteria comprise quality of presentation, scientific content and overall impression of the performance. The award winners will be informed after the congress and will be published on the ESR website.
Scientific/educational exhibits: See page 29 (Scientific Exhibition Awards).
For the first time at ECR 2015, at the end of each scientific session, attendees will be asked to vote, via smartphones or tablets, for their favourite paper. The presenter of the most popular paper will be awarded a certificate by the session moderators.
Take the European Diploma in Radiology

EDiR YOUR PASSPORT TO A BETTER CAREER

Next Exams:

Warsaw, Poland: April 16–17
(exclusive for Members of the Polish Medical Society of Radiology)

ESR Learning Centre Barcelona, Spain: June
(International edition, open to all countries)

Malmö, Sweden: September, 8–9
(exclusive for members of the Societies of Radiology in Nordic Countries)

JFR, Paris, France: October
(exclusive for members of the French Society of Radiology)

TURKRAD, Antalya, Turkey: November
(exclusive for members of the Turkish Society of Radiology)

www.myEBR.org
diploma@myEBR.org
SECURITY / SAFETY
The safety of all congress attendees is of utmost importance to the European Society of Radiology. The Austria Center Vienna and the ESR have taken security precautions to ensure the maximum possible safety for all ECR participants. Please inform our staff, especially our room attendants, immediately if security problems occur.

The ESR reserves the right to check your identification upon admission to the congress centre and/or inside the building. You may be asked at any time to present adequate proof of identity by showing your passport, driver’s licence, national or military identification, or student ID, all with photograph and signature.

SMOKING
Smoking is not permitted inside the Austria Center Vienna. The ECR is a non-smoking congress. Outside the building, we kindly ask you to use the ashtrays provided. Please note that smoking is prohibited in front of the main entrance.

SOCIAL MEDIA
The official congress hashtag for Twitter and Instagram is #ECR2015.

SOCIETY BOOTHS
More than 50 national and international radiological societies present their meetings and societies in the society booths area, which is located on the entrance level, next to the registration desks and the coat checks.

SPECIAL ASSISTANCE
Delegates with special needs may park on the lower level with direct elevator access to the ACV. All lecture rooms are accessible by wheelchair.

SPECIAL FOCUS SESSIONS
Special Focus Sessions deal with a topic at the cutting edge of development and clinical application. The topics of these sessions are presented so as to promote debate and to give an in-depth analysis. The chairman introduces each aspect of the topic and the panelists then discuss their different perspectives and opinions. The audience is also given the opportunity to discuss their ideas with the lecturers. Places are allocated on a first-come, first-served basis. Please refer to pages 93–96 for the programme of the sessions.

STATE OF THE ART SYMPOSIA
These sessions are intended to inform the audience about the ‘real state of the art’ of a given subject. Each of the lecturers is an expert on the topic as a whole or on some specific aspect of the topic, which will be the subject of the respective session. The presentations are followed by a discussion conducted by the panelists, led by the chairman. Places are allocated on a first-come, first-served basis. Please refer to page 92 for the programme of the sessions.

STUDENTS’ SESSIONS
At ECR 2015, students have again the chance to present their own abstracts in front of a huge audience. The submitters of the best 20 abstracts have been invited to Vienna to present their work in dedicated sessions. See page 108.

TAXI
There is a taxi stand outside the main entrance.

TECHNICAL EXHIBITION
Opening hours:
EXPO Halls and EXPO Foyer D
Thursday, March 5 to Saturday, March 7: 10:00–17:00
Sunday, March 8: 10:00–14:00

First Level (Gallery)
Wednesday, March 4: 14:00–17:00
Thursday, March 5 to Sunday, March 8: 10:00–17:00

Detailed information on the Technical Exhibition can be found in the ‘On-Show exhibition guide — Exhibitor Directory and Product Information’, which is distributed together with the congress bags.

TRAVEL SERVICE
The ESR and ECR are proud to offer their delegates services that should facilitate their travel arrangements and make their stay in Vienna as pleas-ant as possible. The ESR’s Travel Service Desk is located in the entrance hall of the Austria Center Vienna. Next to it you can find the ECR’s official travel agency Mondial.

Opening hours:
Tuesday, March 3: 12:00–18:00
Wednesday, March 4 to Saturday, March 7: 07:30–18:00
Sunday, March 8: 07:30–16:00

Air Travel
The Austrian Airlines desk in the entrance area offers services for Austrian Airlines and Star Alliance flights.

Opening hours:
Wednesday, March 4 to Saturday, March 7: 09:00–18:00
Sunday, March 8: 09:00–15:00

WIRELESS LAN
Free wireless LAN access is available throughout the congress venue and all lecture rooms. The name of the public WiFi is ‘ECR’.
CME at ECR 2015

GENERAL INFORMATION
Each ECR delegate has access to confirmation of all activities attended (CME confirmation and record of attendance). It is possible to claim a maximum of 40 CME points for attendance of scientific sessions at the ECR. Please note that this number may differ from the maximum number of credits your national jurisdiction approves for your continuous medical education.

CME ACCREDITATION

Europe
The following European countries accept and recognise the ECR 2015 CME accreditation:
» Austria*
» Albania
» Bulgaria
» Cyprus
» Estonia
» Germany
» Ireland
» Israel
» Italy
» Lithuania
» Netherlands
» Poland
» Romania
» Slovakia
» Switzerland
» Turkey
» United Kingdom

* The Österreichische Ärztekammer (Austrian Medical Chamber) has granted a maximum of 40 DFP (Diplom-Fortbildungs-Programm der Österreichischen Akademie der Ärzte) credits for ECR 2015.

If your country is not included in this list, it may be because they have a different system or no mandatory CME at all. For more information, please consult your national jurisdiction.

The Österreichische Ärztekammer (Austrian Medical Chamber) has approved ECR 2015 for 40 CME points and this accreditation is accepted by all European countries which have mandatory CME for their physicians. No further accreditation with the UEMS has been applied for.

USA
As ECR 2015 has not applied for UEMS accreditation, the agreement of mutual recognition by the American Medical Association (AMA) is not applicable. Please consult your regional, state or national jurisdiction for information on approval of the CME points granted at ECR 2015.

Worldwide
CME points claimed at the ECR are accepted by the majority of national CME authorities worldwide, which have mandatory CME for their physicians. Please consult your national jurisdiction for the maximum number of CME points they will approve following your attendance at ECR 2015.

CME ACQUISITION PROCEDURE
The ESR is happy to introduce our new fully digital CME acquisition system for ECR 2015. Not only will we save tons of paper and become an even greener and more sustainable meeting, but the system provides a lot more flexibility to delegates in regard to evaluating sessions and obtaining CME credits. At ECR 2015, you will have several opportunities to complete the electronic questionnaires for each session.

Evaluation and CME acquisition will be possible via
» The official ECR app, ECR 2015, available via the App Store (iOS) and Google play (Android)
» More than 160 laptops in the ECR Live & EPOS™ Lounge located on the first level
» The registration counters on the entrance level from Friday, March 6, 13:00 onwards
» The CME & Evaluation terminals located on the first level

CME credits will only be awarded if
» You are logged into www.webges.com/cslide/ecr2015/myevaluations/login with your username and PID (printed on your badge)
» You have fully completed the electronic questionnaire for each session

Please note that evaluation of the sessions is only possible March 4–9, 2015.

The combined participation and evaluation questionnaire is of great value to the organising committee when selecting topics for future ECRs. Evaluation forms differ depending on the type of scientific event.

GUIDANCE
Confirmation of participation in the scientific programme may be obtained as follows:

Scientific Sessions
1. Attend the session.
2. Log in to www.webges.com/cslide/ecr2015/myevaluations/login or use the ECR 2015 app to evaluate the session.
3. Fill out this form completely during or after the session.

If you do not have a smartphone, tablet or laptop with you, please visit one of the locations mentioned above and evaluate the session(s) you visited on one of the CME & Evaluation terminals there.
Scientific Exhibition
1. Enter EPOS™ (Electronic Presentation Online System) on one of the 160 laptops in the ECR Live & EPOS™ Lounge and view posters.
2. Log in to www.webges.com/cslide/ecr2015/myevaluations/login or use the ECR 2015 app to evaluate the session.
3. Fill out this form completely after visiting the electronic scientific exhibition.

A maximum of 3 hours of attendance at the scientific exhibition will be listed if the participant has completed and submitted the online evaluation form.

CME CONFIRMATION
Every participant will be able to view and print their own personal record of attendance via the internet in the MyUserArea on the condition that the above procedures have been carried out.

This service will be available from two weeks after the congress via the MyUserArea on the ESR website (www.myESR.org).

Please note that your Personal ID, which is printed on your badge, is required for login.
The printout of your record should be submitted to your national jurisdiction (usually responsible for accreditation) for approval of your CME points. Please note that the record of attendance will be issued only to the participant. It will not be supplied to any accreditation agency or other organisation.

Although participants may partially attend multiple concurrent sessions, the total number of hours printed at the end of the list limits the credit to the equivalent of a single session during that time slot.

For further information, please contact ECR CME Support at cme@myESR.org.
Headline Sessions
OPENING CEREMONY
Wednesday, March 4, 17:45–19:00, Room A
Lorenzo Bonomo; Rome/IT
ESR President
Bernd Hamm; Berlin/DE
ECR 2015 Congress President

JOSEF LISSNER HONORARY LECTURE
Thursday, March 5, 12:15–12:45, Room A
Is the ‘Art of Medicine’ dead in the era of population health management?

WILHELM CONRAD RÖNTGEN HONORARY LECTURE
Friday, March 6, 12:15–12:45, Room A
Hybrid imaging: let the two worlds of radiology and nuclear medicine come together

NIKOLA TESLA HONORARY LECTURE
Saturday, March 7, 12:15–12:45, Room A
Brain tumour update 2015: what’s new and why you should care

IMAGE INTERPRETATION QUIZ COUPLES FOR EUROPE
Friday, March 6, 14:00–15:30, Room A
Moderator: Cornelia M. Schaefer-Prokop; Amersfoort/NL

JUNIOR IMAGE INTERPRETATION QUIZ BATTLE FOR THE AUDIENCE
Saturday, March 7, 13:00–14:00, Room A
Moderator: Marc Dewey; Berlin/DE
**Image Interpretation Quizzes**

The Image Interpretation sessions, two traditional highlights of every ECR, provide both education and entertainment. Two panels of distinguished radiologists will share their knowledge and diagnosis strategies with you.

The slogan for this year’s ‘senior’ quiz is ‘Couples for Europe’. Radiologists will challenge each other in an enjoyable and exciting competition where they will face some tricky cases.

In the ‘junior’ quiz, with its theme ‘Battle for the audience’, the panellists will compete with each other in teams. While solving a variety of cases, the moderator will guarantee a scientifically challenging and entertaining session.

Both quizzes will be interactive with the use of an electronic voting system via one’s own device (smartphone, tablet or laptop) at no costs.

**Friday, March 6, 14.00–15:30, Room A**

**Image Interpretation Quiz (IIQ)**

**Couples for Europe**

**Moderator:** C.M. Schaefer-Prokop; Amersfoort/NL

» **Team 1:**
  - M.G. Mack; Munich/DE
  - P.C. Maly Sundgren; Lund/SE

» **Team 2:**
  - A.A. Bankier; Boston, MA/US
  - F. Pugliese; London/UK

» **Team 3:**
  - J.J. Fütterer; Nijmegen/NL
  - G. Zamboni; Verona/IT

**Saturday, March 7, 13:00–14:00, Room A**

**Junior Image Interpretation Quiz (JIIQ)**

**Battle for the audience**

**Moderator:** M. Dewey; Berlin/DE

» **Team A:**
  - A. Ntorkou; Thesprotia/GR
  - A. Caric; Split/HR
  - P. Flechsig; Heidelberg/DE
  - N. Cardobi; Verona/IT

» **Team B:**
  - M. Faure; Antwerp/BE
  - D. Uceda Navarro; Valencia/ES
  - E. Herin; Paris/FR
  - A. Chopra; Sheffield/UK

= Interactive session with electronic voting/self assessment
Management in Radiology is a subcommittee of the ESR Quality, Safety and Standards Committee. Those involved in the field of healthcare are experiencing a time of increasing pressure, stress and change. The demand for efficiency and effectiveness in all business and administrative matters is constantly growing. MIR addresses current challenges and provides a forum for education and the exchange of ideas and concepts.

Find out more about MIR at www.mir-online.org
EPOS™ – Scientific Exhibition

**OPENING HOURS**
Wednesday, March 4 to Sunday, March 8: 08:00–18:00

The staff of the EPOS™ Service Desk will be glad to assist you during these times.

**LOCATION**
ECR Live & EPOS™ Lounge, 1st level

**WHAT’S IN EPOS™ AT ECR 2015?**
» Access to ECR Live and ECR on demand
» Over 2,000 new scientific and educational exhibits and scientific paper presentations
» 20 new Cases-of-the-Day (five new cases each day)
» e-learning including self assessment modules on ECR 2015 courses
» EURORAD – Europe’s largest radiological case database

**SCIENTIFIC EXHIBITION AWARDS**
A jury of European radiologists has judged all scientific and educational exhibits with regard to their scientific content, educational value, originality and visual impression. Taking advantage of EPOS™, the rating was carried out online, prior to the congress, enabling a detailed and considered assessment. On this basis, the Scientific Exhibition Committee has awarded the best posters with *Magna Cum Laude, Cum Laude* and *Certificate of Merits*. Awardees can pick up their certificates at the EPOS™ Service Desk. Each of the *Magna Cum Laude* awardees will also be granted free ECR 2016 registration.

All awarded posters are flagged in EPOS™ and will be published on the ESR website and on myESR.org/epos.

**ATTENDANCE (CME) AND EVALUATION**
Confirmation of participation in the Scientific Exhibition may be obtained as follows:
1. Enter EPOS™ (Electronic Presentation Online System) on one of the 160 laptops in the ECR Live & EPOS™ Lounge and view posters.
2. Log in to www.webges.com/cslide/ecr2015/myevaluations/login or use the ECR 2015 app to evaluate the session.
3. Fill out this form completely after visiting the electronic scientific exhibition.

A maximum of 3 hours of attendance at the scientific exhibition will be listed if the participant has completed and submitted the online evaluation form.
ESR THANKS ALL REVIEWERS

We cordially thank the members of the Scientific Subcommittees (see pages 66–68) and the EPOS Reviewers who reviewed abstracts and graded electronic posters in the past months, establishing the basis for presenting the awards.

(in alphabetical order)

Emel Ada; Izmir/TR
Helen C. Addley; Cambridge/UK
Hojat Ahnadvazdehfar; Bonn/DE
Angel Alberich-Bayarri; Valencia/ES
Effthymia Alexopoulou; Athens/GR
Hatem Alkadhi; Zurich/CH
Paraskevi Aryropoulou; Alexandroupolis/GR
Irina Arkhipova; Moscow/RA
Loukas G. Astrakas; Ioannina/GR
Nuria Bargalló Alabart; Barcelona/ES
Irene Bargellini; Pisa/IT
Antonio Barile; L’Aquila/IT
Antonio Basile; Catania/IT
Gorka Bastarrika; Toronto/CA
Tobias Baumann; Freiburg/DE
Kunwar S.S. Bhatia; Hong Kong/HK
Johan G. Blickman; Rochester/US
Einat Blumfield; New York/US
Alessandro Bozzao; Roma/IT
Cem Cilli; Izmir/TR
Fabrizio Calliada; Pavia/IT
Robert S.D. Campbell; Liverpool/UK
Davide Caramella; Pisa/IT
Nelson M.G. Caserta; Campinas/BR
John Damilakis; Iraklion/GR
Adelard I. B. De Backer; Gent/BE
Albert de Roos; Leiden/NL
Savas Deferes; Alexandroupolis/GR
Stefan Delorme; Heidelberg/DE
Olle Ekberg; Malmö/SE
Yaacov Elkahmi; Israel/IL
Eduardo F.C. Fleury; São Paulo/BR
Andreas Fichter; Marburg/DE
Stefan Fichter; Marburg/DE
Christian G. Fichter; Marburg/DE
Sofia Gourtsoyianni; London/UK
Ali Guermazi; Boston/US
Andreas Hansch; Jena/DE
Birgitta Hansson; Stockholm/SE
Johannes Hervenhagen; Bern/CH
Jérome Hodel; Paris/FR
Anna Maria Ierardi; Marsala/IT
Alan Jackson; Manchester/UK
Tobias Jakobs; Munich/DE
Jari L. Jakobsen; Oslo/NO
Nektarios Kalyvas; Athens/GR
Aikaterini Kanavaki; Geneva/CH
Ara Kassanian; Majadahonda, Madrid/ES
Caroline Keyzer; Brussels/BE
Friedrich Knollmann; Sacramento/US
Paraskevi Kosta; Ioannina/GR
Elmar Kotter; Freiburg/DE
Karl-Friedrich Kreitner; Mainz/DE
Miltiadis Krokidis; Cambridge/UK
Andrea Laqí; Latina/IT
Andrea Lakatos; Miskolc/HU
Marc Lemmerling; Beerse/BE
Eva Lloips; Alzira-Valencia/ES
Roberto Llorens; Valencia/ES
Elizabeth Loney; Bradford/UK
Ioana Gabriela Lupescu; Bucharest/RO
Andreas Mahnken; Marburg/DE
Lorenzo Mannelli; New York/US
Katharina Marten-Engelke, Göttingen/DE
Celso Matos; Brussels/BE
Josephine McHugo; Birmingham/UK
Frederick J.A. Meijer; Nijmegen/NL
Elena Mershina; Moscow/RA
Petter Mäderlen; Mainz/DE
Manabu Minami; Ibaraki/JP
Penelope L. Moyle; Cambridge/UK
Valdar F. Muegia; Ribeirao Preto/BR
Stephanie Nougaret; St Clement de Riviere/FR
Amaka Offiah; Sheffield/UK
Anastasia Dikonomou; Toronto/CA
Yumiko Oishi Tanaka; Tsukuba/JP
Mihaela Onu; Bucharest/RO
Leo Pallwein-Prettner; Linz/AT
Miquel Palm; Maastricht/ML
Valeria Panebianco; Rome/IT
Gerald Partan; Vienna/AT
Annie Paterson, Belfast/UK
Luis J. Pina Insauti, Pamplona/ES
Katja Pinker-Domenig, Vienna/AT
Tadeusz J. Popiela, Krakow/PL
Panos K. Prassopoulos; Alexandroupolis/GR
Lorenzo Prida; Milan/IT
Stefan Puig; Vienna/AT
Emilio Quaia; Trieste/IT
Daniele Reppê; Candolino-Torino/IT
Soraya Robinson; Vienna/AT
Janeth Romero; Boston/US
Alejandro Rovira-Canelas, Barcelona/ES
Reinhard Rzanny; Jena/DE
Roberto Sanz-Requena; Valencia/ES
Martina Scharitzer; Vienna/AT
Karl Schurrmann; Aachen/DE
Teik Choon See; Cambridge/UK
Ashley Shaw; Cambridge/UK
Martin Shelly; Dublin/IE
Paul Sjens, Groningen/NL
Gustavo N. Simao; Ribeirao Preto/BR
Stefan Steens; Nijmegen/NL
Wolfram Stiller; Heidelberg/DE
Misa Sumi; Nagasaki/JP
Denis Tack; Braine-L’Alleud/BE
Adele Taibbi; Palermo/IT
Stuart A. Taylor; London/UK
Gail Thornbury; Belfast/UK
Michael Toepper; Vienna/AT
Michael Torkzad; Milton/UK
Ioannis A. Tsafountas; Athens/GR
Dimostro T. Tsetis; Iraklion/GR
Athina Tsili; Ioannina/GR
Sara Upponi; Cambridge/UK
Edwin J. Van Beek; Edinburgh/UK
Will J.M. van der Putten; Galway/IE
Berit Verbiest; Leiden/NL
Johny A. Verschakelen; Leuven/BE
Matthew G. Wallis; Cambridge/UK
Daq Wormanns, Berlin/DE
Klaus Wörter, Munich/DE
Ximena Wortsman; Santiago/CL
Petra Wunderlich; Radebeul/DE
Vasilis Xydis; Ioannina/GR
Giulia Zamboni; Verona/IT
Anastasia Zikou; Ioannina/GR
Enjoy Vienna’s cultural highlights

Special Exhibition at the Albertina:
Degas, Cezanne, Seurat. The dream archive from the Musée D’Orsay

William Degouve de Nuncques, Night mood in the royal park of Brussels: avenues crossing, 1897

© RMN-Grand Palais (Musée d’Orsay) / Hervé Lewandowski

www.albertina.at

More about museums and exhibitions in Vienna: www.myESR.org/arts_culture
Tweet and post about the ECR to win prizes

During last year’s congress, thousands of messages were exchanged between ECR fans via social media. On Facebook, Twitter, Instagram and the built-in message function in our online streaming service, ECR Live, people talked about their congress experiences and shared their special ECR moments with the world. If you want to get involved and wow everyone with your ECR engagement, check out our guide to the ECR 2015 social media world for a few helpful hints.

WELCOME TO ECR 2015
CHECK IN AT THE CONGRESS VENUE
Just like you, we’re moving to the congress venue for the duration of ECR 2015. Look out for the official venues on Foursquare (ECR 2015) and Facebook (myESR) and check yourself in to let others know where you are.

GET THE LATEST NEWS
LIKE MYESR ON FACEBOOK AND FOLLOW US ON TWITTER
myESR will give you full congress coverage, daily photos, news, competitions and much more. All you have to do is become a myESR fan on Facebook or follow @myESR on Twitter.

SHARE YOUR THOUGHTS
POST ON OUR FACEBOOK WALL OR USE THE OFFICIAL HASHTAG
But that’s only the half of it. We would love to hear your comments, ideas, thoughts, and congress experiences. Post them on our Facebook page, mention @myESR or use the official hashtag #ECR2015 in your tweets.

CONNECT ANYWHERE
ENJOY THE CONGRESS VIA ECR LIVE AND ON MULTIPLE DEVICES
Bring all your ECR 2015 social media activity together in one place by using our ECR Social Media Wall. The wall will collect posts and tweets in one convenient stream, which will be visible to participants throughout the congress venue. Access it from the congress, in your hotel room, at home, or anywhere, no matter if you’re using a smartphone, laptop, or our onsite internet terminals.

SPREAD THE WORD
YOUR FRIENDS BACK HOME CAN JOIN US ONLINE
Your colleagues can also join you at the ECR, online and live via our video and social media stream. Sessions will be streamed for free: just visit the myESR.org homepage and look out for ECR Live. And don’t forget to subscribe to our YouTube channel: www.youtube.com/myESR

TWEET DURING SESSIONS
MAKE SURE YOUR MESSAGE APPEARS IN THE RIGHT PLACE
Each room being streamed on ECR Live has its own Social Media Wall. As an example, the following will appear on the Social Media Wall for room Q1.

1. Anything posted in the chatbox for the ECR Live stream from room Q
2. Any post on Twitter that includes the hashtag #ECR2015Q
3. Any post on the myESR Facebook page that includes the hashtag #ECR2015Q

To work out an individual room’s hashtag, simply add the room code to the general #ECR2015 hashtag, e.g. #ECR2015A, #ECR2015L1, #ECR2015MB2.
You can also use hashtags for a particular session, using the session code. For instance, if you wish to post a message about session SF 16c, and the lecture is in room Q, you would use both #ECR2015Q and #SF16C. For further examples, see the congress newspaper, ECR Today, which includes the relevant hashtag with all of its articles on this year’s sessions.

LINKS
ECR Live: live.myESR.org
Social Media Wall: smw.myESR.org
Watch more than 1,500 lectures online, live or on demand

Free Live Video & Social Media Stream
live.myESR.org

Live video stream powered by Bayer HealthCare & SIEMENS
General Information

Free Publications

Broaden your horizons with Free Publications at ECR 2015

The Free Publications initiative will run for the ninth consecutive year after attracting increasing levels of attention at ECR 2014. The Free Publications booth will be located on the first level of the ACV within the Preview Area (next to the ECR Live & EPOS Lounge). The booth will be richly stocked with a galaxy of fascinating reading material from many of our associated organisations and publishing houses from around the world, such as Globetech, Diagnostic Imaging and European Hospital.

In addition to a broad library of print media, internet terminals will also be installed nearby, providing access to a wide variety of online publications.

About 20 publishers will provide more than 30 different titles for this initiative, ranging from copies of the ESR's flagship journals European Radiology and Insights into Imaging, to issues from as far afield as South America, many of which will also be available online. Interested delegates can pick up a copy of International Hospital and browse the online Touch Medical Media, among others. It is a rare chance to learn from so many diverse medical imaging communities from around the globe, so we encourage you to make the very best of the opportunity.

We are of course grateful for the enthusiasm of our friends in the publishing industry for making the Free Publications initiative possible, and allowing us to provide ECR participants with the chance to pick up some literature and broaden their medical imaging horizons.

FREE PUBLICATIONS BOOTH:
1st level, within the ECR Live & EPOS™ Lounge.
LET’S KEEP OUR CONGRESS GREEN

The ECR 2015 will be a green meeting designed to meet environmental sustainability criteria set by the ‘Federal Ministry of Agriculture, Forestry, Environment and Water Management’ (Austria’s national eco-friendly certificate).

We encourage our employees, partners and customers to adopt practices that promote awareness of environmental conservation and sustainable use and we endeavour to adhere to these principles throughout our entire enterprise.

Here are some ways you can contribute to our goal of becoming a green meeting:

- If possible, please choose an environmentally friendly form of transport like public transport or car sharing
- Please follow your hotel’s eco-friendly advice (e.g. changing towels and bed sheets only when necessary) and please switch off all lights and electronic devices when leaving your hotel room
- Please choose drinks served in glass, food served on reusable dishes and avoid cans, plastic bottles and products in disposable packaging
- Please dispose of your waste (PET, glass, paper, residual waste, metal) by using the separate bins in your hotel and at the congress venue.
- Please use online registration and non-printed media instead of paper
- Please return your badge to the info point after the congress has ended

We’re not saying it’ll be easy, but we know that it’ll be worth it.

Thank you for your support!
The ESR welcomes its Supporting Members

The ESR gives a warm welcome to all its existing and newly joined supporting membership companies. As the ECR puts a special focus on innovation and keeping up to date with recent developments in the field, a close cooperation with the industry leaders is indispensable.

The companies contribute with their active involvement to the success of the society and its congress with their continuous support for the cause of radiology in Europe.

ESR Supporting Members:

4-STAR:

- Agfa HealthCare
- Bayer HealthCare
- Bracco Imaging
- Carestream Health
- Esaote
- Fujifilm Europe
- GE Healthcare
- Guerbet
- Hitachi Medical Systems Europe
- Philips Healthcare
- Samsung Medison
- Siemens Healthcare
- Toshiba

3-STAR:

- Shenzhen Mindray Bio-Medical Electronics
- TeraRecon

2-STAR:

- Alpinion Medical Systems
- Paramed Medical Systems
- Shimadzu Europa
- Swissray Medical
- Vinno Technology

‘ESR MEETS’ COUNTRIES

Each year the ECR places a special focus on its ‘ESR meets’ countries – in 2015 namely Germany, Republic of Korea and Turkey – with particular emphasis on their scientific and technological developments. The ESR, industry companies and the national societies work closely together to highlight these countries. Additionally, we are proud to present you the ‘ESR meets’ partner discipline; EAU (European Association of Urology).

Thank you for your involvement!
INVEST IN THE YOUTH

Twelve years of investing in radiology’s next generation

Free registration for the ECR, hotel accommodation voucher

For more than 4,000 young radiologists and radiographers from around Europe since 2003

All funded by

ESRF
EUROPEAN SOCIETY OF RADIOLOGY

700 radiology residents and radiographers-in-training are presenting their papers and posters at ECR 2015. The aim of the programme is to give radiologists-in-training under 35 or radiographers-in-training who are 30 or younger the chance to participate in the annual meeting of the ESR.
ECR 2015
young radiologist or radiographer in training
Vienna
March 4–8
Top radiologists read more than just images

www.european-radiology.org
ESR Journals

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European Radiology at your fingertips!
Carry Europe’s leading radiology journal with you wherever you go – with the European Radiology App – download the app from iTunes or via the QR code below.

European Radiology is the official journal of the ESR and official organ of numerous subspecialty organisations. It acts as a flagship, publishing original scientific papers in the radiological field with an Impact Factor of 4.338 for 2013.

Full access to the online version of European Radiology is included in the ESR membership fee.
ESR members can also arrange subscriptions for the printed version at special rates in the MyUserArea (www.myESR.org/MyUserArea under ‘MyJournals’).
Don’t miss any further issue of the special cover illustrations (on all printed issues in 2015), and subscribe to the printed version now.

INSIGHTS INTO IMAGING

The clearest insights … for all to see!
Insights into Imaging is the ESR journal for education and strategies in radiology. Besides excellent review articles, it publishes articles on professional issues, several official documents and political statements.

Insights into Imaging is an Open Access journal on the SpringerOpen platform – therefore all articles published are freely available. As benefit for ESR members, ESR covers the Article Processing Charges for all its active members!

www.european-radiology.org
www.i3-journal.org
Insights into Imaging

Education and strategies in European radiology

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Underground Map

- **Underground Line (U-Bahn)**
- **Commuter Train (S-Bahn)**
- **City Airport Train**
- **Urban Train (Lokalbahn)**
- **Vienna International Busterminal**

**Customer Service Centre (U3 Erdberg)**

- **Infopoints**
- **Ticket Sales**
- **Park & Ride**

**Underground Line (U-Bahn)**

- U1: Underground Line (U-Bahn)
- U2: Commuter Train (S-Bahn)
- U3: City Airport Train
- U4: Urban Train (Lokalbahn)

**Vienna International Busterminal**

- **Customer Service Centre (U3 Erdberg)**
- **Infopoints**
- **Ticket Sales**
- **Park & Ride**
Customise your congress!

Plan and personalise your ECR 2015 experience with the Interactive Programme Planner.

The IPP offers a great, convenient way to **explore the whole ECR programme online and create a custom timetable**. You can search or browse for sessions and posters, read full abstracts, create a personal calendar, and even print your own personalised Book of Abstracts. It’s also optimised for mobile devices, meaning you can keep every detail that’s important to you exactly where you need it – right in your hand.

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Floor Plans
3 – Third Level ACV

Floor Plans

Meeting Room 3.34
Meeting Room 3.33
Meeting Room 3.32
Past Presidents Circle

OFFICES 3.77–3.97
OFFICES 3.43–3.66
OFFICES 3.12–3.15
PRESIDENTS’ OFFICE
All Rooms on this level, with the exception of Room MB1 and the Diploma Zone - are Meeting Rooms.
2 – Second Level M Building
ESR Dignitaries
N. Reed Dunnick
Ann Arbor, MI/US
Honorary Member

In recognition of his major contributions to scientific research and his commitment to transatlantic cooperation and exchange in radiology, Professor N. Reed Dunnick from Ann Arbor, US, will receive Honorary Membership of the European Society of Radiology at ECR 2015.

N. Reed Dunnick is the Fred Jenner Hodges Professor of Radiology and chair of the department of radiology at the University of Michigan Health System in Ann Arbor. He served as the 2014 president of the Radiological Society of North America.

Graduating with a medical degree from Cornell University Medical College in 1969, he went on to spend two years in internal medicine at the University of Rochester’s Strong Memorial Hospital in New York before taking up a radiology residency at Stanford University school of Medicine in California, where he served as chief resident in his final year. He was appointed assistant professor at Stanford in 1976, and later that year he took up a post in the diagnostic radiology department at the National Institutes of Health. He then moved to Duke University Medical Center, where he held a number of posts between 1980 and 1992, including professor of radiology, chief of uroradiology and director of the division of diagnostic imaging.

A strong advocate for research, Prof. Dunnick is a former president of the Academy for Radiology Research, and he testified before the United States Congress on the need to establish a new institute, which was signed into law in 2000 as the National Institute of Biomedical Imaging and Bioengineering.

Throughout his career, Prof. Dunnick has actively participated in professional radiology organisations. He has served as president of the Society of Uroradiology (SUR) and the Society of Computed Body Tomography & Magnetic Resonance. He is also a former president of the American Roentgen Ray Society (ARRS), the Michigan Radiological Society (MRS), the American Board of Radiology, the Association of University Radiologists and the Society of Chairmen of Academic Radiology Departments.

Prof. Dunnick has written 310 scientific papers, 62 book chapters and ten books on various aspects of radiology, in particular diagnostic oncology, uroradiology and, more recently, administration. He has served as a visiting professor at 77 medical centres, a guest member of faculty for 448 medical education courses and has delivered 26 named lectures. He has also served on the boards of 13 peer-reviewed journals.

Due to his dedication throughout his career, Prof. Dunnick has received a great number of awards and honours, including gold medals from the ARRS, SUR, AUR, MRS and the American College of Radiology, as well as the Mexican Federation of Radiology and Imaging’s Radiology Merit Award. He is also an honorary member of the American Society of Radiation Oncology and the Japan Radiological Society.

At ECR 2015 Prof. Dunnick will receive Honorary Membership of the European Society of Radiology.
Tae-Hwan Lim is professor of radiology at the University of Ulsan College of Medicine and a radiologist at the Asan Medical Center’s department of radiology in Seoul, Republic of Korea.

After graduating with a degree in medicine from Seoul National University in 1978, Prof. Lim continued his studies there, earning a Master of Science degree in 1981 and a Ph.D. in 1987. During this time he worked as an intern and resident at Seoul National University Hospital. He later served as director of radiology at the Korean Armed Forces Capitol Hospital. Since 1987, he spent one and a half years in the United States as a research fellow in magnetic resonance imaging at the University of California San Francisco’s department of radiology under the supervision of Dr. C.B. Higgins. In 1989, he started his career at Asan Medical Center, University of Ulsan College of Medicine, Seoul, as an assistant professor, and has since been working as associate professor and full professor. In 1990, he was appointed director of the NMR laboratory at the Asan Institute for Life Sciences. Eight years later he became chairman of the department of radiology at Asan Medical Center, a post he held until 2000.

With a clear commitment to developing and advancing cardiovascular imaging in Korea and Asia, Prof. Lim has played a major role in promoting and developing training in MR and CT in Korea, as well as in Asia. He also founded the Asian Society of Cardiovascular Imaging (ASCI) in 2007 and served as the first and second president.

Prof. Lim is also devoted to improving general public healthcare and has held a number of senior government posts and is a member of several national committees. He is currently the president of the National Evidence-based Healthcare Collaborating Agency and was a member of the Korean Ministry of Health & Welfare’s Health Technology Assessment Committee for six years.

At ECR 2015 Prof. Lim will receive Honorary Membership of the European Society of Radiology.
ESR Dignitaries

Anne G. Osborn
Salt Lake City, UT/US
Honorary Member &
Honorary Lecturer

Anne G. Osborn is Distinguished Professor of Radiology at the University of Utah School of Medicine in Salt Lake City. She also holds the William H. and Patricia W. Child Presidential Chair in Radiology at the University of Utah.

Prof. Osborn received her Bachelor of Arts degree in psychology and her Medical degree from Stanford University in California, where she also completed her residency in diagnostic radiology. She joined the faculty at the University of Utah’s School of Medicine in 1974, spending her first three years as a James Picker Advance Academic Fellow in Neuroradiology. She has also served as a visiting professor at many of the world’s premier medical institutions including Harvard, Stanford, Johns Hopkins and the Karolinska Institute in Stockholm.

A renowned neuroradiologist, Prof. Osborn has authored several texts considered to be definitive references in her field. Her latest comprehensive textbook, Osborn’s Brain, won the 2013 American Medical Writers Association award for Best Book Written by a Physician.

The first woman to be elected president of the American Society of Neuroradiology, Prof. Osborn has received numerous awards, including honorary membership from a number of international radiology professional societies, the Marie Curie Award from the American Association of Women in Radiology, the Gold Medal from the Chicago Radiological Society, the Rosenblatt Prize for Excellence, the Distinguished Service Award from the University of Utah, the 2002 Béclère Medal from the International Society of Radiology, the 2003 gold medal from the American Society of Neuroradiology, and the Magna Cum Laude Scientific Exhibit Award from the Radiological Society of North America (RSNA).

In November, 2000 she was named the first-ever recipient of the RSNA’s Outstanding Educator Award. She has also received gold medal awards from the RSNA, the Asian-Oceanian Congress of Radiology, the Federation of Mexican Societies of Radiology and Imaging, the Turkish Society of Radiology, and the Hong Kong College of Radiologists, as well as being named an honorary founding member of the Russian Society of Neuroradiology in 2012.

At ECR 2015 Prof. Osborn will receive Honorary Membership of the European Society of Radiology. In addition, she will deliver the Nikola Tesla Honorary Lecture entitled ‘Brain tumour update 2015: what’s new and why you should care’.

In recognition of her major achievements in the field of neuroradiology and her commitment to education and cooperation in radiology, Professor Ann G. Osborn from Salt Lake City, US, will be awarded Honorary Membership of the European Society of Radiology and deliver the Nikola Tesla Honorary Lecture at ECR 2015.
Claus D. Claussen is professor of radiology at Eberhard-Karls Universität Tübingen in Germany and was chairman of the department of radiology at University Hospital Tübingen from 1988 to the end of March 2014. He has been director of metabolic imaging at the German Diabetes Center in Tübingen since April 2014.

In 1971, Prof. Claussen graduated from Heidelberg University with a degree in medicine. He later completed a residency in radiology at the University of Heidelberg and worked as a staff radiologist until 1979. During his time from 1979 until 1988 working in the department of radiology at the university hospital in Berlin (since 1990 Charité) he became vice-chairman of the department in 1984 and was promoted to professor of radiology in 1986. He moved to the University of Tübingen in 1988 and served as chairman and full professor of radiology until 2014. He also served as a visiting professor at the Mayo Clinic Rochester in Minnesota, United States.

Over the last four decades, he has been one of the pioneers in developing and introducing new imaging modalities, together with his team, into clinical practice; dynamic-CT (1980), gadolinium contrast MRI (1983), cardiac CT (1998), 3T MRI (2000), whole-body MRI (2004). With a particular interest in MR/PET, Prof. Claussen has been involved in the development of hybrid MR/PET imaging technology since 2006, which has major potential in the field of molecular imaging. Over the last ten years, together with Prof. Pichler, he has built up one of Europe’s largest and most successful preclinical molecular imaging laboratories in Tübingen.

He has published in a large range of highly regarded peer-reviewed scientific journals, including the New England Journal of Medicine, Nature Medicine, Circulation, JACC, Radiology and European Radiology. He has also served as a reviewer for Radiology, European Radiology and the Journal of Nuclear Medicine.

Prof. Claussen also works to support international cooperation and has served as president of the German Radiological Society and the European Society of Gastrointestinal and Abdominal Radiology’s congress in 1999. He is president of the Society for Promoting Biotechnology and Medical Technology South-West Germany, Stuttgart, and served as chairman of the ESR’s Ethical Compliance Subcommittee until autumn 2014.

In recognition of his work, Prof. Claussen has received numerous awards and honours, including honorary membership of the Austrian, French, and German Society of Radiology and ESGAR.

At ECR 2015 Prof. Claussen will receive the Gold Medal of the European Society of Radiology.
Yves Menu
Paris/FR
Gold Medallist

Yves Menu is professor of radiology and chairman of the department of radiology at Saint Antoine Hospital, Pierre & Marie Curie University in Paris, France.

Originally from Dijon in the east of France, Prof. Menu graduated from the University of Paris VI Medical School in 1976, and began his residency in neurosurgery, endocrinology and radiology at the Assistance Publique Hôpitaux de Paris and University of Paris in 1977. He became a board certified radiologist in 1981 and then a fellow at Beaujon Hospital’s department of radiology in Clichy. At Beaujon Hospital, he was promoted to professor of radiology, and in 1990 he was appointed chairman of the department of radiology at Bichat Hospital in Paris. He returned to Beaujon Hospital in 1993 and served as chairman of the radiology department until 2003, when he assumed until 2008 the post of chairman of Bicêtre Hospital’s department of radiology and professor of radiology at the University of Paris XI.

Prof. Menu’s main areas of interest are in the fields of gastrointestinal radiology, oncologic imaging and emergency radiology. He has published 191 peer-reviewed scientific articles, 19 book chapters and a book. He has also delivered 290 lectures, presentations and invited talks around the world. From 1992 to 1996, he was editor-in-chief of the Journal de Radiologie, the official journal of the French Society of Radiology, and served as reviewer for other journals like Intensive Care Medicine, European Journal of Radiology, Gastroentérologie Clinique et Biologique, Translational Oncology and Radiology. In 2010, he received the Editor’s Recognition Award from the journal Radiology, for his many years of service as a reviewer, and he is now an associate editor for this journal. He is an honorary member of the RSNA, Tunisian Society of Radiology and the Romanian Society of Radiology.

A long-time and active member of the ESR, Prof. Menu has been committed to advancing the profession and science of radiology. He served as president of ECR 2011 and on many ECR’s Programme Planning Committees. He was also chairman of the Professional Organisation Committee and is now the scientific director of the European Board of Radiology (EBR).

At ECR 2015 Prof. Menu will receive the Gold Medal of the European Society of Radiology.
András Palkó is chairman and head of the department of radiology at Szeged University Medical School. He is also editor-in-chief of the journal *Magyar Radiológia*.

A native of Budapest, Hungary, Prof. Palkó graduated from the University of Pécs Medical School in 1977 and became a board-certified radiologist in 1981. He also received his Ph.D. degree from the University of Pécs in 1994. In 1993, he spent a year working as a senior registrar in Kuwait, and has also visited the United States and Germany during his career. From 1996 to 1999, he served as head of the department of radiology at Pécs County Hospital before becoming chairman and head of the department of radiology at Szeged University Medical School.

A dedicated teacher, Prof. Palkó has received several ‘best teacher’ awards from his students over the years. His main field of interest is abdominal-gastrointestinal radiology, with a special emphasis on oncologic and emergency imaging.

Prof. Palkó has been an active member of the ESR for many years and served on the ESR’s Board of Directors between 2009 and 2013 and as president in 2012. Since its foundation, Prof. Palkó has been actively involved in the work of the European School of Radiology and now serves as editor-in-chief of the ESR Education on Demand service. He is also a member of the European Society of Abdominal and Gastrointestinal Radiology and currently serves as its secretary-general.

During his long and distinguished career, Prof Palkó has published 91 articles in peer-reviewed journals and 31 book chapters. He has also delivered more than 200 invited lectures around the world. He has received widespread recognition for his achievements and contributions to radiology, having previously been awarded honorary membership by the Austrian, French, Irish, Polish, Romanian, and Serbian radiological societies, as well as the Radiological Society of North America.

At ECR 2015 Prof. Palkó will receive the **Gold Medal** of the European Society of Radiology.

In recognition of his dedication to international cooperation and relations, as well as his outstanding contribution to radiological education, Professor András Palkó, from Szeged, Hungary, will be awarded the Gold Medal of the European Society of Radiology at ECR 2015.
ESR Dignitaries

Gerald Antoch
Düsseldorf/DE
Honorary Lecturer

Gerald Antoch is professor of radiology and chairman of the department of diagnostic and interventional radiology at Düsseldorf University Hospital.

After completing his medical training, Prof. Antoch began working in general surgery before starting his training in diagnostic and interventional radiology at Essen University Hospital. He became a board certified radiologist in 2004. From 2004 to 2008, he worked as a consultant radiologist and became vice chairman of the department of radiology at Essen University Hospital in 2008. In 2010 he was appointed chairman of the department of diagnostic and interventional radiology at Düsseldorf University Hospital.

Prof. Antoch’s scientific research focuses on clinical hybrid imaging. He has published 209 original scientific articles and reviews, as well as 20 book chapters. He has received widespread recognition for his work with a number of awards. In 2003, he received the Alavi-Mandell Award from the Society of Nuclear Medicine, United States, and that same year he won Aunt Minnie’s Best Scientific Paper Award, which he won again in 2004. In 2005 he was awarded the Lodwick Award at Harvard Medical School followed by awards from the Bavarian Association of Nuclear Medicine and the German Cancer Research Center in the same year. In 2007 the German Radiological Society presented Prof. Antoch with the Wilhelm Conrad Röntgen Award.

Apart from his scientific and clinical work, Prof. Antoch is an active member of several scientific societies including the German Radiological Society, the German Society for Interventional Radiology, the Röntgen Society of North-Rhine-Westfalia, the German Society for Radiation Protection in Medicine, the German Society for Interdisciplinary Medicine and, of course, the European Society of Radiology. He is also no stranger to the ECR, where he has lectured and served on the ECR 2015 Programme Planning Committee.

At ECR 2015, Prof. Antoch will deliver the Wilhelm Conrad Röntgen Honorary Lecture entitled ‘Hybrid imaging: let the two worlds of radiology and nuclear medicine come together’.
James A. Brink is radiologist-in-chief at Massachusetts General Hospital, Boston and Juan M. Taveras Professor of Radiology at Harvard Medical School, in the United States.

Before completing his residency and fellowship at Massachusetts General Hospital in 1990, he received a Bachelor of Science degree in electrical engineering from Purdue University, Indiana and his medical degree from Indiana University. He then joined the faculty at the Mallinckrodt Institute of Radiology at the Washington University School of Medicine in St. Louis, where he was promoted to associate professor. He then went to Yale University in 1997 and served as chair of the department of diagnostic radiology from 2006 to 2013 before returning to Massachusetts General Hospital as radiologist-in-chief.

A highly experienced clinical radiologist, especially in the areas of the utilisation and management of imaging resources, Prof. Brink also has a particular interest and expertise in issues related to the monitoring and control of medical radiation exposure.

A major figure in the field of medical radiation protection, Prof. Brink serves as scientific vice-president for radiation protection in medicine on the National Council for Radiation Protection and Measurements. He is past-president of the American Roentgen Ray Society and a fellow of the Society of Computed Body Tomography & Magnetic Resonance, as well as a fellow of the American College of Radiology, where he also serves as vice-chair of the Board of Chancellors.

Over the course of his career, Prof. Brink has written 119 publications and 19 book chapters. He has also given 239 presentations. In acknowledgement of his many achievements, he has received honorary membership from the Italian Society of Medical Radiology and the American Association of Physicists in Medicine.

At ECR 2015, Prof. Brink will deliver the Josef Lissner Honorary Lecture entitled 'Is the ‘Art of Medicine’ dead in the era of population health management?'.

In recognition of his outstanding achievements in the field of radiation safety and his commitment to improving safety in radiology, Professor James A. Brink has been invited to deliver the Josef Lissner Honorary Lecture at ECR 2015.
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And learn all about the most recent developments in healthcare technology.

OPENING HOURS

EXPO Halls and EXPO Foyer D

Thursday, March 5 to Saturday, March 7: 10:00–17:00
Sunday, March 8: 10:00–14:00

First Level (Gallery)

Wednesday, March 4: 14:00–17:00
Thursday, March 5 to Sunday, March 8: 10:00–17:00
Committees
# ESR Executive Council

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<td>Peter Baierl; Vienna/AT</td>
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IMAGE INTERPRETATION QUIZ

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E³ – EUROPEAN EXCELLENCE IN EDUCATION

Hybrid Imaging: G. Antoch; Düsseldorf/DE,
K. Åhlström Riklund; Umeå/SE
Image-Guided Interventions in Oncology: F. Orsi; Milan/IT
Diagnostic Urogenital Radiology: H.C. Thoeny; Berne/CH
Interactive Teaching Sessions: M.G. Mack; Munich/DE
Modern Imaging of the GI Tract: S.A. Taylor; London/UK

E³ – RISING STARS PROGRAMME

C.M. Schaefer-Prokop; Amersfoort/NL
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e-LEARNING

JUNIOR IMAGE INTERPRETATION QUIZ

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EMERGENCY RADIOLOGY
The ESR would like to thank ESER for their cooperation on this subcommittee

Chairperson: ..................................  M. Stajgis; Poznan/Poland
Members: ........................................
H. Alkadhi; Zurich/ Switzerland
J.M. Artigas; Zaragoza/Spain
R. Basilio; Chieti/Italy
F.H. Berger; Amsterdam/Netherlands
P. Ilves; Tartu/Estland
B. Popa; Bucharest/Romania
E. Schouman-Clæys; Paris/France
S. Wirth; Munich/Germany
**ECR 2015 Topic Coordinators**

**EUROPEAN EXCELLENCE IN EDUCATION (E³)**

**E³ – Rising Stars Programme:**
- M. Szczerbo-Trojanowska; Lublin/PL
- K.M. Friedrich; Vienna/AT
- S. Robinson; Vienna/AT

**E³ – The Beauty of Basic Knowledge:**
- V.N. Cassar-Pullicino; Oswestry/UK
- J. Camps Herrero; Valencia/ES

**E³ – European Diploma Prep Sessions:**
- B. Ertl-Wagner; Munich/DE

**E³ – ECR Academies:**
- G. Antoch; Düsseldorf/DE (basic)
- K. Åhlström Riklund; Umea/SE (advanced)
- H.C. Thoeny; Berne/CH
- M.G. Mack; Munich/DE
- S.A. Taylor; London/UK

**E³ – Master Classes:**
- S.A. Taylor; London/UK
- F. Sardanelli; San Donato Milanese/IT
- R. Vliegenthart; Groningen/NL
- F.M.A. Kiessling; Aachen/DE
- H.C. Thoeny; Berne/CH
- B. Verbiest; Leiden/NL
- M. Bezzi; Rome/IT
- A. Klauser; Innsbruck/AT
- M. Muto; Naples/IT
- C. Adamsbaum; Le Kremlin-Bicêtre/FR
- T. Sabharwal; London/UK
- A.G. Rockall; London/UK
- M. Stajgis; Poznan/PL

**MINI COURSE**

Joint Course of ESR and RSNA (Radiological Society of North America):

- Emergency Radiology
  - A.D. Gean; San Francisco, CA/US
  - U. Linsenmaier; Munich/DE
  - S.E. Mirvis; Baltimore, MD/US
  - A. Palkó; Szeged/HU
  - M. Smits; Rotterdam/NL
  - R.J. Zagoria; San Francisco, CA/US

**MULTIDISCIPLINARY SESSIONS**

Management of rectal cancer: a paradigm shift (R.G.H. Beets-Tan; Maastricht/NL)
Solving the crossword puzzle in diffuse interstitial lung disease (DILD) (H.-U. Kauczor; Heidelberg/DE)
Critical limb ischemia (CLI): limb salvage or life salvage? (J.A. Reekers; Amsterdam/NL)

**PROS AND CONS SESSION**

Breast cancer: to screen or not to screen? (F. Sardanelli; San Donato Milanese/IT)
One morning when Gregor Samsa woke from troubled dreams he found himself transformed in his bed into a gigantic insect. He lay on his腹面 and turned from side to side, but the great creature was not able to find any support. It was such a relief to be rid of the rather uncomfortable bedding that he at once sat up on the bed and examined his surroundings. He was in a fair-sized room, the floor of which was laid with untidy wooden planks. The room was not large enough to contain his body: when he tried to feel the place where his head must be he was overcome by a cold shiver and had to move it back to the backrest. His limbs, which were strongly cutaneous, were in a good state of health; he had simply his head in a bad way. The room was full of blinding sunlight coming through a large window that gave it some warmth. Outside there was a heavy fall of snow which made the air very cold. Gregor Samsa did not like it, and was glad to have the window closed.
Programme Overviews
## Programme Overviews

### Wednesday, March 4

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<td>E³ 121 E³ - ECR Academies: Interactive Teaching Sessions</td>
<td>RC 101 Abdominal Viscera Pitfalls in interpretation in pancreatic imaging</td>
<td>SF 1a Special Focus Session Acute gastrointestinal tract emergencies: an update</td>
<td>RC 113 Physics in Radiology</td>
<td>RC 105 Computer Applications Mobile IT in radiology</td>
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**17:45–19:00 Room A**: Opening Ceremony / Presentation of Honorary Members

**Registration**: Tuesday, March 3: 12:00–18:00 / Wednesday, March 4: 07:00–18:00 / Thursday, March 5 to Sunday, March 8: 07:30–18:00
### Programme Overview

#### Wednesday, March 4

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<td>Paediatric Autonomic disorders in children</td>
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<td>Up-to-date imaging for hearing loss</td>
<td>Internal derangement of joints: choosing the right test for the problem</td>
<td>How about the lymph nodes?</td>
<td>Breast ultrasound 2015</td>
<td>Head and neck emergency: the general radiologist and the patient?</td>
<td>Stone disease: new concepts</td>
<td>The paediatric brain and spine - not only tumours</td>
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<td>Professional Challenges Session</td>
<td>Radio-pathological consultation: more important than you thought</td>
<td>HRT - patterns in chest radiology - back to basics and beyond</td>
<td>Prostate imaging: how do we?</td>
<td>Vascular: principles of vascular examination and endovascular treatment</td>
<td>Cardiac: Quantification of myocardial perfusion: which test is the best (PET, MRI, MCT)?</td>
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<td>Musculoskeletal Intervention</td>
<td>Neuro Inflammation and degenerative disorders</td>
<td>Paediatric</td>
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<td>Fractures, spinal injuries and spine</td>
<td>Molecular imaging: advances in MR technology</td>
<td>Advances in CT imaging</td>
<td>Advanced imaging: where best (PET, MRI, SPECT)?</td>
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#### Technical Exhibition

**EXPO First Level (Gallery): 14:00–17:00**

**EPOS™ – Scientific Exhibition:** 08:00–18:00
Programme Overviews

Today’s Highlights

Thursday, March 5

Room A  HL 1  JOSEF LISSNER HONORARY LECTURE
12:15–12:45
Is the ‘Art of Medicine’ dead in the era of population health management?
James A. Brink, Boston, MA/US

Room E1  SA 5  Rethinking ductal carcinoma in situ (DCIS)
08:30–10:00

Room E2  PC 5a  Looking into the future of radiology
08:30–10:00

Room F2  PC 5b  Imaging biobanks: from genomic to radiomic in the era of personalised medicine
08:30–10:00

Rising Stars Lounge
13:30–14:30
RTF QUIZ

Room C  PS 827  Breast cancer: to screen or not to screen?
16:00–17:30

Room M  MS 8  Critical limb ischaemia (CLI): limb salvage or life salvage?
16:00–17:30

Room L1  PC 8b  Imaging in population-based studies
16:00–17:30

Room F1  PC 8a  Integration of imaging biomarker activities on a European level
16:00–17:30

Room D1  E³ 826  E³ - ECR Master Classes:
16:00–17:30
Chest
Lung cancer staging

Friday, March 6

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C 2nd Level (ACV)  
Z 2nd Level (ACV)  
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N 1st Level (ACV)  
Studio 2015 1st Level (ACV)  
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Registration: 07:30–18:00

EPOS™ – Scientific Exhibition: 08:00–18:00
### Friday, March 6

**Technical Exhibition:** Expo First Level (Gallery) 10:00–17:00

**Technical Exhibition:** Expo Halls and Expo Foyer D 10:00–17:00

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### Programme Overviews

**Technical Exhibition:** Expo First Level (Gallery) 10:00–17:00

**Technical Exhibition:** Expo Halls and Expo Foyer D 10:00–17:00
### Today's Highlights

#### Friday, March 6

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<th>WILHELM CONRAD RÖNTGEN</th>
<th>HONORARY LECTURE</th>
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<td>E³ - ECR Akademie: Interactive Teaching Sessions</td>
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<th>PC 9</th>
<th>Personalised medicine in radiology</th>
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<td>lena Antoch, Düsseldorf/DE</td>
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<th>ESR meets Germany</th>
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<td>Tradition goes digital: getting ready for the future</td>
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<td>Couples for Europe</td>
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<td>(European Federation of Radiographer Societies) High-end and hybrid technology in clinical and research work of radiographers in Germany</td>
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<th>Medicolegal aspects in daily practice</th>
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<th>Fleischner guidelines for nodules: theory and practice</th>
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### Saturday, March 7

#### Programme Overview

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**Registration:** 07:30–18:00

**EPOSTM – Scientific Exhibition:** 08:00–18:00
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<th>Room MB 3 E³ 926b Interventional Radiology</th>
<th>Room MB 1 E³ 926d Molecular Imaging</th>
<th>Room MB 2 E³ 1226c Cardiac MR imaging</th>
<th>Room MB 1 E³ 1226b Emergency Radiology</th>
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<td>Acute postoperative complications in the abdomen: from diagnosis to therapy</td>
<td>Advances in liver imaging</td>
<td>Chemical exchange saturation transfer (CEST): a new toy for molecular imaging?</td>
<td>Cardiac MR imaging</td>
<td>Acute postoperative complications in the abdomen: from diagnosis to therapy</td>
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<td>Room MB 1 E³ 926d Molecular Imaging</td>
<td>Room MB 2 E³ 1226c Cardiac MR imaging</td>
<td>Room MB 4 E³ 1626b Emergency Radiology</td>
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Saturday, March 7

**Technical Exhibition:** EXPO First Level (Gallery) 10:00–17:00

**Technical Exhibition:** EXPO Halls and EXPO Foyer D 10:00–17:00

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Friday, March 6

**Room MB 1 E³ 926c Vascular**
08:30–10:00 Uterine and prostate embolisation

**Room MB 2 E³ 926a Paediatric**
08:30–10:00 Advances in paediatric imaging

**Room MB 3 E³ 926b Interventional Radiology**
09:00–09:30 The leading role of interventional radiology in a major trauma centre

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Saturday, March 7

**Technical Exhibition:** EXPO First Level (Gallery) 10:00–17:00

**Technical Exhibition:** EXPO Halls and EXPO Foyer D 10:00–17:00

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**Final Programme | ECR 2015**

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* Not CME accredited
### Saturday, March 7

#### Room A  HL 3  NIKOLA TESLA HONORARY LECTURE
- 12:15–12:45  
  Brain tumour update 2015: What's new and why you should care  
  Anne G. Osborn; Salt Lake City, UT/US

#### Room Z  Joint Session of the ESR and EORTC
- 08:30–10:00  
  Imaging in multicentre clinical oncological trials

#### Room B  EM 3  ESR meets the Republic of Korea
- 13:00–14:00  
  CT in lung cancer screening and COPD evaluation

#### Room A  JIIQ  JUNIOR IMAGE INTERPRETATION QUIZ
- 14:30–15:30  
  Battle for the Audience

#### Room Z  Joint Session of the ESR and ESTRO
- 14:00–15:30  
  Non-surgical approach to early lung cancer: perspectives of imaging and radiation-based disciplines

#### Room E2  NH 15  Optical molecular imaging: a new dimension for radiology
- 15:30–16:30  
  Radiology and radiation oncology: new chances for a partnership

#### Studio 2015 MS 16  Solving the crossword puzzle in diffuse interstitial lung disease (DILD)
- 16:00–17:00  
  Controversies in comprehensive imaging of coronary artery disease

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### Sunday, March 8

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<th>C 2nd Level (ACV)</th>
<th>Z 2nd Level (ACV)</th>
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<th>N 1st Level (ACV)</th>
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<th>L2 1st Level (ACV)</th>
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<td>08:30-09:00</td>
<td>E* 1721 E* - ECR</td>
<td>E* - ECR</td>
<td>Academies: Interactive Teaching Sessions</td>
<td>RC 1701 Abdominal Viscera</td>
<td>Colonial cancer Liver metastases</td>
<td>Assessing tumour response</td>
<td>E* 1722 E* - ECR Academies: Modern Imaging of the Di Tract</td>
<td>Gastrointestinal Tract tumours (GIT)</td>
<td>ECR Patient Advisory Group</td>
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<td>SS 1802 Computer Applications</td>
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<td>14:30-15:00</td>
<td>MRI and PET</td>
<td>Pancreatic tumours, pancreatic</td>
<td>Breast</td>
<td>Methods for image interpretation and reporting</td>
<td>Liver CT and ultrasound: new techniques</td>
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For Saturday’s Master Classes see page 47

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### Thursday, March 5

#### Room A  HL 3  NIKOLA TESLA HONORARY LECTURE
- 12:15–12:45  
  Brain tumour update 2015: What's new and why you should care  
  Anne G. Osborn; Salt Lake City, UT/US

#### Room Z  Joint Session of the ESR and EORTC
- 08:30–10:00  
  Imaging in multicentre clinical oncological trials

#### Room B  EM 3  ESR meets the Republic of Korea
- 13:00–14:00  
  CT in lung cancer screening and COPD evaluation

#### Room A  JIIQ  JUNIOR IMAGE INTERPRETATION QUIZ
- 14:30–15:30  
  Battle for the Audience

#### Room Z  Joint Session of the ESR and ESTRO
- 14:00–15:30  
  Non-surgical approach to early lung cancer: perspectives of imaging and radiation-based disciplines

#### Room E2  NH 15  Optical molecular imaging: a new dimension for radiology
- 15:30–16:30  
  Radiology and radiation oncology: new chances for a partnership

#### Studio 2015 MS 16  Solving the crossword puzzle in diffuse interstitial lung disease (DILD)
- 16:00–17:00  
  Controversies in comprehensive imaging of coronary artery disease

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### Programme Overview

**Today’s Highlights**

**For Saturday’s Master Classes see page 47**

**Registration:** 07:30–18:00

**EPOS™ – Scientific Exhibition:** 08:00–18:00
## Sunday, March 8

### Technical Exhibition:
- **EXPO First Level (Gallery):** 10:00–17:00
- **EXPO Halls and EXPO Foyer D:** 10:00–14:00

### Programme Overviews

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<th>SS 1811 Neuro Brain epilepsy and inflammation</th>
<th>SS 1816 Oncologic Imaging Response assessment: new concepts</th>
<th>SS 1813 Physics in Radiology Novel digital imaging techniques</th>
<th>SS 1804 Chest Obstructive pulmonary diseases and reduced lung function</th>
<th>SS 1809 Interventional Radiology GI and abdominal interventions</th>
<th>SS 1807 Genitourinary GI special topics</th>
<th>SS 1814 Radiographers Professional challenges for radiographers</th>
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<td>08:30-09:00</td>
<td>E³ 1726 E³ - ECR Master Classes Osteomyelitis vs. gout: what are the pearls?</td>
<td>NH 17 New Horizons Session Comprehensive personalised imaging of cardiological diseases</td>
<td>SF 17b Special Focuss Session Congenital heart disease from infancy to adulthood</td>
<td>RC 1702 Breast Emerging breast imaging technologies</td>
<td>SF 17a Special Focuss Session Metabolic bone diseases</td>
<td>RC 1714 Radiographers Looking into PET-CT</td>
<td>RC 1711 Neuro Screening for cerebral aneurysms</td>
<td>SF 17c Special Focuss Session Technology for supporting clinical research in radiology</td>
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**Notes**
Today’s Highlights

Sunday, March 8

Room Z
08:30–10:00
EDIR talk
(European Diploma in Radiology)
FA(b)Q frequently asked (burning)
questions - with answers

Studio 2015
08:30–10:00
Joint Session of the ESR and ERS
(European Respiratory Society)
Lung cancer screening;
why and how to implement
a comprehensive preventive programme

Room E1 E³ 1726
08:30–10:00
E³ - ECR Master Classes:
Musculoskeletal
Osteomyelitis vs gout:
what are the pearls?

Room E2 NH 17
08:30–10:00
Comprehensive personalised imaging
of cardiothoracic diseases

Room B EM 4
10:30–12:00
ESR meets Turkey
Turkey welcomes ECR

Room L1 ESR-PAG 2
10:30–12:00
ESR Patient Advisory Group
Communicating the results
of radiological studies to patients:
from high-tech to human touch imaging

Studio 2015
13:00–15:30
Case-based Diagnosis Training

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Scientific Programme

Please note that sessions are marked with a logo to indicate their classification according to the European Training Curriculum.

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<td>Fourth and fifth years of training (general radiologist standard)</td>
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European Congress of Radiology

ECR

2015

Vienna
March 4–8

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SIEMENS

THE ANNUAL MEETING OF THE EUROPEAN SOCIETY OF RADIOLOGY

Android app on Google Play
Available on the App Store
Once again, the ESR will welcome three countries and a partner discipline to share their expertise as part of the ‘ESR meets’ programme during ECR 2015, next March in Vienna.

The national radiological societies of Germany, the Republic of Korea, and Turkey, as well as the European Association of Urology (EAU), will present their most recent scientific developments in joint sessions, and try to strengthen links between professionals from different countries and disciplines. The European Federation of Radiographer Societies (EFRS) will also host its own ‘meets’ session for radiographers, in conjunction with their colleagues from Germany (German Association of Medical Technologists and Analysts).

Both the ESR and the EFRS warmly welcome these societies, and hope to see ECR delegates attend the sessions in large numbers.
ESR/EFRS meets Sessions

**Friday, March 6, 10:30–12:00, Room B**

**ESR meets Germany**

**EM 1** Tradition goes digital: getting ready for the future [ALL LEVELS]

**Moderators:** B. Hamm; Berlin/DE
N. Hosten; Greifswald/DE

» Welcome by the ESR President
L. Bonomo; Rome/IT

» Introduction [A-374]
N. Hosten; Greifswald/DE

» State-of-the-art teaching in German radiology: Akademie online [A-375]
M.G. Mack; Munich/DE

» Interlude I: Radiation protection: the concept of ‘justifying indication’ [A-376]
R.W.R. Loose; Nürnberg/DE

» Population-based MRI: SHIP (study of health in Pomerania) and the national cohort [A-377]
K. Hegenscheid; Greifswald/DE

» Interlude II: The Röntgenhaus: Wilhelm Conrad Röntgen’s birthplace [A-378]
B. Lewerich; Berlin/DE

» MRI-PET: a new modality for clinical imaging [A-379]
C.D. Claussen; Tübingen/DE
N. Schwenzer; Tübingen/DE

» Panel discussion: Cross-linking radiology: opportunity or threat?

**Friday, March 6, 16:00–17:30, Room B**

**ESR meets EAU**

*(European Association of Urology)*

**EM 2** Joint ESR-EAU prostate cancer session [LEVEL I/II]

**Moderators:** P.-A. Abrahamsson; Malmö/SE
B. Hamm; Berlin/DE

» Welcome by the ESR President
L. Bonomo; Rome/IT

» Introduction [A-416]
P.-A. Abrahamsson; Malmö/SE
B. Hamm; Berlin/DE

» PSA screening: the EAU view [A-417]
P.-A. Abrahamsson; Malmö/SE

» Role of a multiparametric MRI in early detection [A-418]
G.M. Villeirs; Gent/BE

» Active surveillance strategies in prostate cancer [A-419]
A. Villers; Lille/FR

» Role of imaging in active surveillance [A-420]
A.R. Padhani; London/UK

» Panel discussion: When should MRI be used? Before or after prostate biopsy? Qualitative or quantitative MRI reading? Cost-effectiveness of mpMRI as a tool for prostate cancer screening. Can mpMRI detect clinically significant prostate cancer?

**Friday, March 6, 14:00–15:30, Room B**

**ESR meets Germany**

*(European Federation of Radiographer Societies)*

**EM 5** High-end and hybrid technology in clinical and research work of radiographers in Germany

**Moderators:** C. Vandulek; Kaposvár/HU
A. Ohmstedt, Oldenburg/DE

» Introduction [A-396]
C. Vandulek; Kaposvár/HU
A. Ohmstedt, Oldenburg/DE

» Teaching and learning with VERT (Virtual Environment for Radiation Therapy Training) [A-397]
C. Garske; Berlin/DE

» Selective Internal Radiation Therapy (SIRT) [A-398]
B. Kulitzscher; Berlin/DE

» Interlude: German Röntgen Museum [A-399]
B. Lewerich; Berlin/DE

» PET-CT [A-400]
K. Hägle; Böbingen/DE

» MRI-PET [A-401]
V. Diehl; Bremen/DE
**Saturday, March 7, 10:30–12:00, Room B**

**ESR meets the Republic of Korea**

**EM 3  CT in lung cancer screening and COPD evaluation**

**Moderators:** B. Hamm; Berlin/DE  
T.-H. Lim; Seoul/KR

» Welcome by the ESR President  
L. Bonomo; Rome/IT

» Introduction: Korean Society of Radiology - evolution and new challenges  
T.-H. Lim; Seoul/KR

» Lung cancer screening in Korea  
K.S. Lee; Seoul/KR

» Interlude: Republic of Korea (South Korea): Korean people and culture  
J. Hur; Seoul/KR

» Computer-aided nodule detection and volumetry: role in lung cancer screening  
J.M. Goo; Seoul/KR

» Interlude: Introduction of the Korean Society of Thoracic Radiology (KSTR)  
J. Hur; Seoul/KR

» CT in COPD: now and future  
J.B. Seo; Seoul/KR

» Panel discussion: Is CT an effective tool for management of lung cancer screening and COPD?

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**Sunday, March 8, 10:30–12:00, Room B**

**ESR meets Turkey**

**EM 4  Turkey welcomes ECR**

**Moderators:** A. Coşkun; Kayseri/TR  
B. Hamm; Berlin/DE

» Welcome by the ESR President  
L. Bonomo; Rome/IT

» Introduction  
A. Coşkun; Kayseri/TR

» Liver hydatid cysts: percutaneous treatment  
O. Akhan; Ankara/TR

» Interlude I: Music show  
İ. Barutçu; Trabzon/TR, M. Burçin Derçin; Trabzon/TR

» fMRI of the brain: beyond expectations?  
C. Calli; Izmir/TR

» Interlude II: Music show  
İ. Barutçu; Trabzon/TR, M. Burçin Derçin; Trabzon/TR

» Advanced hepatopancreatobililiary imaging  
Ş.M. Ertürk; Istanbul/TR

» Panel discussion
Enjoy Vienna’s cultural highlights

Special Exhibition at the mumok (Museum of Modern Art):
Ludwig goes Pop

Roy Lichtenstein, Still Life with Pitcher and Apple, 1972, Museum Ludwig, Köln
© Estate of Roy Lichtenstein / Bildrecht Wien, 2014

www.mumok.at

More about museums and exhibitions in Vienna: www.myESR.org/arts_culture
New Horizons Sessions

The New Horizons Sessions aim to provide practitioners with an overview of the new developments in a specific area of practice, whether it is a subspecialty, a particular technique, or certain diseases. These developments may become routine within a few years, or may indicate a new direction for research and clinical application. Each session is 90 minutes long and features an introduction from a chairman, followed by three or four brief presentations on different aspects of the main subject, and concluded by a panel discussion that will hopefully answer some critical questions.

Places are allocated on a first-come, first-served basis.
New Horizons Sessions

Friday, March 6, 08:30–10:00, Room E2

**NH 9 Image-guided interventions of the prostate**

- Chairman’s introduction: defining the target  [A-327]
  A.R. Padhani; London/UK
- MR-targeted prostate biopsy  [A-328]
  J.J. Fütterer; Nijmegen/NL
- MR-US fusion prostate biopsy  [A-329]
  F. Cornud; Paris/FR
- Image-guided tumour ablations  [A-330]
  H.U. Ahmed; London/UK
- Prostate artery embolisation (PAE) for benign hypertrophy  [A-331]
  F.C. Carnevale; Sao Paulo/BR
- Panel discussion: Do organ-sparing prostatic treatments make sense?

Saturday, March 7, 14:00–15:30, Room E2

**NH 15 Optical molecular imaging: a new dimension for radiology**

- Chairman’s introduction  [A-589]
  C.-C. Glüer; Kiel/DE
- Reporter gene imaging  [A-590]
  C.W.G.M. Löwik; Leiden/NL
- Cerenkov - faster than the speed of light  [A-591]
  J. Grimm; New York, NY/US
- The kiss of light and sound - optoacoustics  [A-592]
  V. Ntziachristos; Munich/DE
- Panel discussion: Potential of optical imaging for translation to human applications

Sunday, March 8, 08:30–10:00, Room E2

**NH 17 Comprehensive personalised imaging of cardiothoracic diseases**

- Chairman’s introduction: how to prepare for the future?  [A-698]
  T. Benedek; Targu Mures/RO
- Patients with acute and chronic chest pain  [A-699]
  C. Loewe; Vienna/AT
- Patients with acute shortness of breath  [A-700]
  J. Bremerich; Basle/CH
- Patients with chronic shortness of breath  [A-701]
  E.J. van Beek; Edinburgh/UK
- Early detection for cardiothoracic disease in smokers  [A-702]
  M. Rémy-Jardin; Lille/FR
- Panel discussion: Comprehensive imaging and education in cardiothoracic diseases
State of the Art Symposia

These sessions will inform the audience about the ‘real state of the art’ of a given subject. Each of the lecturers is an expert on the given topic as a whole or on a specific aspect of the topic.

The 90-minute sessions are chaired by a moderator who will introduce three to four speakers addressing various issues within wider subjects such as anatomical regions, specific diseases, or particular techniques. The presentations will be followed by a discussion conducted by the panellists, led by the chairman.

Places are allocated on a first-come, first-served basis.
State of the Art Symposia

5 March  Thursday, March 5, 08:30–10:00, Room E1
SA 5  Rethinking ductal carcinoma in situ (DCIS)  LEVEL II

- Chairman’s introduction [A-151]
  G. Forrai, Budapest/HU
- New molecular pathologic knowledge on DCIS [A-152]
  T. Tot, Falun/SE
- Diagnosing DCIS with MRI [A-153]
  C.K. Kuhl, Aachen/DE
- Image-guided interventions for DCIS [A-154]
  R.M. Pijnappel, Utrecht/NL
- Panel discussion: Patient with DCIS: how to plan her therapy in 2015?

6 March  Friday, March 6, 16:00–17:30, Room F1
SA 12  Fleischner guidelines for nodules: theory and practice  LEVEL II

- Chairman’s introduction [A-448]
  C.M. Schaefer-Prokop, Amersfoort/NL
- The 2011 classification of adenocarcinomas: rationale and implications for nodule management [A-449]
  A. Nicholson, London/UK
- The Fleischner guidelines for solid and subsolid nodules: theory and practice [A-450]
  A.A. Bankier, Boston, MA/US
- Estimating the risk for malignancy of pulmonary nodules [A-451]
  B. van Ginneken, Nijmegen/NL
- Panel discussion: Fleischner guidelines: what have we learned?

7 March  Saturday, March 7, 16:00–17:30, Room F1
SA 16  Controversies in comprehensive imaging of coronary artery disease  LEVEL II

- Chairman’s introduction: what is the evidence? [A-651]
  M. Dewey, Berlin/DE
- Computed tomography is all you need [A-652]
  H. Alkadhi, Zurich/CH
- Magnetic resonance will take the lead [A-653]
  M. Francone, Rome/IT
- Hybrid nuclear imaging shows no defeat [A-654]
  S. Kajander, Turku/FI
- Panel discussion: Imaging of coronary artery disease in 2020
Special Focus Sessions

The concept of a Special Focus Session is to deal with a topic at the cutting edge of development and clinical application. A traditional approach is inappropriate for such a session, which should reflect the lecturers’ forthright personal views on a developing subject. The topics of these sessions should be presented in such a way as to promote debate and give an in-depth analysis.

The chairman will introduce each aspect of the topic and the panellists will then discuss their different perspectives and opinions. The audience will have the opportunity to discuss their ideas with the lecturers. Session length: 90 minutes; three to four speakers.

Places are allocated on a first-come, first-served basis.
Scientific Programme

Special Focus Sessions

**Wednesday, March 4, 08:30–10:00, Room C**

**SF 1a** Acute gastrointestinal tract emergencies: an update

- **Chairman’s introduction** [A-007]
  F. Caseiro-Alves; Coimbra/PT

- **The acute abdomen: inflammation and its mimics** [A-008]
  M. Zins; Paris/FR

- **Mechanical bowel obstruction** [A-009]
  D.J.M. Tolan; Leeds/UK

- **Evaluation of the ischaemic bowel** [A-010]
  S. Romano; Naples/IT

- **The acute GI bleed** [A-011]
  O.M. van Delden; Amsterdam/NL

- **Panel discussion:** How should acute GI tract emergencies be managed?

**Wednesday, March 4, 08:30–10:00, Room E1**

**SF 1b** Up-to-date imaging for hearing loss

- **Chairman’s introduction** [A-019]
  A. Trojanowska; Lubin/PL

- **New devices in the treatment of hearing loss** [A-020]
  B. Ozgen Mocan; Ankara/TR

- **Pre- and postoperative imaging in middle ear implants** [A-021]
  E. Loney; Bradford/UK

- **Pre- and postoperative imaging in inner ear and brainstem implants** [A-022]
  B. Verbist; Leiden/NL

- **Panel discussion:** Changing demands for imaging in hearing loss

**Wednesday, March 4, 08:30–10:00, Room E2**

**SF 1c** Internal derangement of joints: choosing the right test for the problem

- **Chairman’s introduction** [A-023]
  A.J. Grainger; Leeds/UK

- **CT arthrography:** acceptable if MR availability is limited? [A-024]
  B. Vande Berg; Brussels/BE

- **MR arthrography:** exquisite soft tissue contrast [A-025]
  E. Rowbotham; Leeds/UK

- **MRI: when is it enough?** [A-026]
  C.W.A. Pfirrmann; Zurich/CH

- **Panel discussion:** Can one technique ever fulfill all the roles? How will our optimal techniques change in the next 5 years?

**Wednesday, March 4, 16:00–17:30, Room C**

**SF 4** Pancreatic lesions - the solid, the cystic, and the diffuse: benign or malignant?

- **Chairman’s introduction** [A-073]
  C. Matos; Brussels/BE

- **The solid pancreatic lesion** [A-074]
  R. Manfredi; Verona/IT

- **The cystic pancreatic lesion** [A-075]
  J. Wessling; Munster/DE

- **The diffuse pancreatic lesion** [A-076]
  C. Triantopoulou; Athens/GR

- **Panel discussion:** Pitfalls and problems in pancreatic lesions

**Thursday, March 5, 08:30–10:00, Room C**

**SF 5** Advanced applications in ultrasound

- **Chairman’s introduction** [A-133]
  T. Fischer; Berlin/DE

- **Contrast-enhanced ultrasound of the pancreas** [A-134]
  M. D’Onofrio; Verona/IT

- **Molecular ultrasound and dynamic contrast-enhanced US for antiangiogenic therapy monitoring** [A-135]
  N. Lassau; Villejuif/FR

- **State-of-the-art ultrasound technologies: elastography and microvascular imaging - are they useful?** [A-136]
  A.K.P. Lim; London/UK

- **ShearWave elastography, ultrafast Doppler and image fusion** [A-137]
  J.-M. Correas; Paris/FR

- **Panel discussion:** How could these technologies improve clinical routine?
Special Focus Sessions

**Thursday, March 5, 16:00–17:30, Room B**

**SF 8a**  Advanced brain MRI techniques in paediatrics: toys or tools in daily practice?  
LEVEL II

- **Chairman’s introduction**  [A-236]  
  A. Rossi, Genoa/IT
- **Arterial spin-labelling: measuring perfusion non-invasively in neonates and children**  [A-237]  
  J. Hendrikse, Utrecht/NL
- **MR spectroscopy: information vs time**  [A-238]  
  J.F. Schneider, Basle/CH
- **Diffusion tensor imaging: connecting the dots**  [A-239]  
  T.A.G.M. Huisman, Baltimore, MD/US
- **Panel discussion:**  
  Do advanced brain MRI techniques really change current practice?

**Thursday, March 5, 16:00–17:30, Room E2**

**SF 8b**  New frontiers in brain tumour imaging  
LEVEL II

- **Chairman’s introduction**  [A-259]  
  H.R. Jäger, London/UK
- **Imaging correlates of brain tumour genotypes**  [A-260]  
  M. Smits, Rotterdam/NL
- **Multi-parametric MR tumour imaging in brain tumour diagnosis and monitoring**  [A-261]  
  M.A. Lucic, Sremska Kamenica/RS
- **MR/PET in brain tumour diagnosis: the added value of combining structural and molecular imaging**  [A-262]  
  F. Fraioli, London/UK
- **Panel discussion:**  
  Modalities and parameters - what do we really need?

**Thursday, March 5, 16:00–17:30, Room F2**

**SF 8c**  Breast imaging modalities: beyond the conventional  
LEVEL II

- **Chairman’s introduction**  [A-269]  
  M. Lobbes, Maastricht/NL
- **Contrast-enhanced mammography**  [A-270]  
  C. Dromain; Villejuif/FR
- **Breast CT**  [A-271]  
  W.A. Kalender; Erlangen/DE
- **Non-contrast MRI**  [A-272]  
  P.A.T. Baltzer; Vienna/AT
- **Panel discussion:**  
  Is there still room for conventional breast imaging?

**Friday, March 6, 08:30–10:00, Room C**

**SF 9a**  Evaluation of treatment response in head and neck cancer  
LEVEL III

- **Chairman’s introduction**  [A-308]  
  M. Becker, Geneva/CH
- **Prognostic factors influencing treatment choice and treatment response**  [A-309]  
  R. Hermans, Leuven/BE
- **Evaluation of early treatment response: can MRI techniques make a difference?**  [A-310]  
  H.C. Thoeny, Berne/CH
- **Post treatment imaging: is PET a reliable indicator for tumour viability?**  [A-311]  
  S. Bisdas, Tubingen/DE
- **Panel discussion:**  
  Can we provide accurate information for the evaluation of treatment response?

**Friday, March 6, 08:30–10:00, Room D1**

**SF 9b**  The forgotten joints  
LEVEL III

- **Chairman’s introduction**  [A-340]  
  M. Padrón, Madrid/ES
- **Fingers and toes: little joints, big trouble?**  [A-341]  
  A. Klauser, Innsbruck/AT
- **The symphysis pubis**  [A-342]  
  C.W.A. Pfirrmann, Zurich/CH
- **The acromioclavicular joint: patterns of injury**  [A-343]  
  D. Barron, Leeds/UK
- **Panel discussion:**  
  Are these topics never to be forgotten?

**Friday, March 6, 16:00–17:30, Room E2**

**SF 12**  Interventional radiology in venous thromboembolism and chronic venous disease  
LEVEL II

- **Chairman’s introduction**  [A-443]  
  D.K. Tsetis, Iraklion/GR
- **Current endovascular treatment in iliofemoral DVT**  [A-444]  
  R. Uberoi, Oxford/UK
- **Vena cava filters: an update**  [A-445]  
  M.J. Lee, Dublin/IE
- **Interventional treatment of severe/massive pulmonary embolism**  [A-446]  
  G. Carrafiello, Varese/IT
- **Techniques and tools in endovenous thermal ablation**  [A-447]  
  D.J. West, Stoke-on-Trent/UK
- **Panel discussion:**  
  What does the interventional radiologist need to know about modern anticoagulation treatment?
Scientific Programme

Special Focus Sessions

**7 March**

**Saturday, March 7, 14:00–15:30, Room F1**

SF 15  Cardiac CT: cutting-edge techniques  [LEVEL III]

» Chairman’s introduction: overview of the cutting-edge techniques  [A-593]
R. Salgado; Antwerp/BE

» Estimation of coronary flow reserve by CT: a new arrival  [A-594]
G. Bastami; Pamplona/ES

K. Kitagawa; Mie/JP

» Plaque imaging with cardiac CT: coming of age?  [A-596]
J. Hoe, Singapore/SG

» Panel discussion: Which technique will change clinical practice?

**SF 16  Imaging biomarkers in degenerative joint disease  [LEVEL III]**

» Chairman’s introduction  [A-647]
S. Trauttm; Vienna/AT

» Proteoglycan-specific quantitative imaging in osteoarthritis and cartilage repair - part 1  [A-648]
E.H.G. Oei; Rotterdam/NL

» Proteoglycan-specific quantitative imaging in osteoarthritis and cartilage repair - part 2  [A-649]
M.-A. Weber, Heidelberg/DE

» Degenerative joint disease: collagen-specific quantitative imaging of menisci and tendons  [A-650]
K.M. Friedrich, Vienna/AT

» Panel discussion: What are the new imaging biomarkers in degenerative MSK disease?

**8 March**

**Sunday, March 8, 08:30–10:00, Room F1**

SF 17b  Congenital heart disease: from infancy to adulthood  [LEVEL III]

» Chairman’s introduction  [A-703]
M. Haliloglu; Ankara/TR

» Cardiac CT: challenges in congenital heart diseases  [A-704]
M. Kantarci; Erzurum/TR

» Segmental approach to MR imaging of congenital heart disease  [A-705]
A.M. Taylor; London/UK

» Imaging of congenital heart disease in adults  [A-706]
S. Leschka; St. Gallen/CH

» Panel discussion: What is the impact of radiologists in the evaluation of congenital heart disease?

**SF 17c  Technology for supporting clinical research in radiology  [LEVEL III]**

» Chairman’s introduction  [A-721]
D. Caramella; Pisa/IT

» Online tools and software solutions for effective clinical research  [A-722]
A. Scarsbrook; Leeds/UK

» PACS for research  [A-723]
D. Regge, Turin/IT

» Using electronic case report forms for clinical imaging trials  [A-724]
T. Bauerle, Erlangen/DE

» Panel discussion: Are online tools, PACS, or electronic case report forms suitable for clinical research?

**8 March**

**Saturday, March 8, 08:30–10:00, Room D1**

SF 17a  Metabolic bone diseases  [LEVEL II]

» Chairman’s introduction  [A-710]
G. Guaglielmi, Andria/IT

» A critical appraisal of vertebral fracture identification  [A-711]
A. Bazzocchi, Bologna/IT

» Metabolic bone disorders in patients with malabsorption  [A-712]
C.M. Phan, Paris/FR

» Bone quality beyond BMD: what do we know already and what more does the future hold?  [A-713]
J.S. Bauer, Munich/DE

» Panel discussion: How do radiologists get involved?
Professional Challenges Sessions

The idea of these sessions is to communicate and exchange information on professional issues related to radiology, such as training and education, research networking, radiological management and professional developments.

90-minute sessions; introduction by one or two chairmen; three to four lecturers; panel discussion.

Places are allocated on a first-come, first-served basis.
Professional Challenges Sessions

**Wednesday, March 4, 16:00–17:30, Room E2**

**PC 4a** Radiologist: imager or doctor?  

» Chairman’s introduction  [A-086]  
J.A. Reekers; Amsterdam/NL  

» Which type of radiologist is future proof?  [A-089]  
N.H. Strickland; London/UK  

» Is subspecialisation the answer?  [A-090]  
J.A. Reekers; Amsterdam/NL  

» Is teleradiology a threat to radiology?  [A-091]  
A. Palkó; Szeged/HU  

» Radiology training for the future  [A-092]  
B. Ertl-Wagner; Munich/DE  

» Panel discussion: How do radiologists stay relevant and what is the role of the ESR?  

**PC 4b** 

What are the concrete benefits of structured reporting?  

» Chairman’s introduction  [A-077]  
L. Donoso; Barcelona/ES  

» For the radiologist  [A-078]  
P. Mildenberger; Mainz/DE  

» For the referring physician  [A-079]  
J.M.L. Bosmans; Ghent/BE  

» For the patient  [A-080]  
C.E. Kahn; Philadelphia, PA/US  

» The ESR/RSNA structured reporting initiative  [A-081]  
O. Ratib; Geneva/CH  

» Panel discussion: What are the concrete benefits of structured reporting?  

**Thursday, March 5, 08:30–10:00, Room F1**

**PC 8a** Integration of imaging biomarker activities on a European level  

» Chairman’s introduction  [A-263]  
G. Frija; Paris/FR  

» From qualitative to quantitative imaging: a paradigm shift in radiology  [A-264]  
S. Trattnig; Vienna/AT  

» Experience of the Quantitative Imaging Alliance (QIBA) of the RSNA  [A-265]  
R. Boellaard; Amsterdam/NL  

» Introduction to the Quantitative Imaging European Task Force  [A-266]  
H.-U. Kauczor; Heidelberg/DE  

» Clinical validation of imaging biomarkers and their role in European Medicine Agency (EMA) applications  [A-267]  
O. Clément; Paris/FR  

» The role of imaging biomarkers in the EORTC clinical trials  [A-268]  
N.M. deSouza; Sutton/UK  

» Panel discussion: How to strengthen the role of imaging biomarkers in clinical trials  

**Thursday, March 5, 08:30–10:00, Room F2**

**PC 5b** Imaging biobanks: from genomic to radiomic in the era of personalised medicine  

» Chairman’s introduction  [A-163]  
G. Frija; Paris/FR  
E. Neri; Pisa/IT  

» The biobanks: genomic, molecular and proteomic - Which link to radiomics?  [A-164]  
M. Simmaco; Rome/IT  

» Radiomic: report from the ESR Working Group on Imaging Biobanks  [A-165]  
H.-U. Kauczor; Heidelberg/DE  

» Existing imaging biobanks  [A-166]  
A. Jackson; Manchester/UK  

» Extraction and analysis of biomarkers from medical images  [A-167]  
B. Gibaud; Rennes/FR  

» Panel discussion: Future strategies for the development and the federation of biobanks, definition of standards, etc.
Scientific Programme

Professional Challenges Sessions

**Thursday, March 5, 16:00–17:30, Room L 1**

PC 8b Imaging in population-based studies

- Chairman’s introduction [A-250]
  N. Hosten; Greifswald/DE
- Population imaging for the prediction of neuro-degenerative diseases [A-251]
  G.P. Krestin; Rotterdam/NL
- The German National Cohort: population based imaging in a nation-wide multi-centre setting [A-252]
  F. Bamberg; Munich/DE
- Population-based cardiac imaging [A-253]
  S. Petersen; London/UK
- The Trauma Cohort: a joint project of the German Röntgen Society and the German Society of Trauma Surgery [A-254]
  S. Langner; Greifswald/DE
- Ethical aspects of population imaging [A-255]
  R. Schmucker; Munster/DE
- Panel discussion: What does the individual gain from population imaging studies?

**Friday, March 6, 08:30–10:00, Room E1**

PC 9 Personalised medicine in radiology

- Chairman’s introduction [A-322]
  R. Manfredi; Verona/IT
- Imaging is everywhere in personalised medicine [A-323]
  A. van der Luüt; Rotterdam/NL
- Personalised prevention: population-based imaging and image-based screening [A-324]
  F. Bamberg; Munich/DE
- Integrated diagnostics: towards one diagnostic department [A-325]
  E. Zampella; Naples/IT
- Interventional radiology: a paradigm for personalised medicine [A-326]
  S.N. Goldberg; Jerusalem/IL
- Panel discussion: How can we best accelerate the adoption of personalised medicine in radiological practice?

**Friday, March 6, 16:00–17:30, Room Z**

PC 12a Harmonised approach for imaging in Europe: myth or reality?

- Chairman’s introduction [A-452]
  L. Donoso, Barcelona/ES
- Current heterogeneities in imaging in Europe [A-453]
  G. Frija, Paris/FR
- Imaging equipment: an ESR perspective [A-454]
  B. Brijkačić, Zagreb/HR
- Equipment age - COCIR [A-455]
  N. Denjoy; Brussels/BE
- Training and certification [A-456]
  B. Ertl-Wagner, Munich/DE
- Issues related to coding terminology and IT access [A-457]
  P. Mildenerger, Mainz/DE
- Panel discussion: A global plan for imaging
  J. Griebel, Neuerberg/DE (HERCA Chair of the Working Group on Medical Applications - BfS, Germany)
  T. Peetso, Brussels/BE (Policy Officer of Unit ‘Health and Wellbeing’ - DG CNECT, European Commission)
  A. Rys, Brussels/BE (Director Health systems and products - DG SANCO, European Commission)
  G. Simeonov, Luxembourg/LU (Policy Officer Radiation Protection Unit - DG ENER, European Commission)

**Friday, March 6, 16:00–17:30, Room F2**

PC 12b Medicolegal aspects in daily practice

- Chairman’s introduction [A-425]
  J.I. Bilbao, Pamplona/ES
- Inadequate consent, missed lesions and misinterpretation: legal challenges in radiology [A-426]
  E.J. Adam; London/UK
- When is a radiologic error simply an error and when is it malpractice? [A-427]
  A. Cannavale; Rome/IT
- The lawyer’s point of view [A-428]
  M. Ludvik; Vienna/AT
- Panel discussion: How present are medicolegal aspects in our daily clinical practice?
Enjoy Vienna’s cultural highlights

Special Exhibition at the Kunst Haus Wien:
Lillian Bassman & Paul Himmel. Two lives for photography

Lillian Bassman, Barbara Mullen, New York, ca. 1958, reinterpreted 1994
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www.kunsthauswien.com

More about museums and exhibitions in Vienna: www.myESR.org/arts_culture
Multidisciplinary Sessions

The concept of these sessions is to promote a multidisciplinary approach to detection and treatment, integrating radiologists and other clinicians to share their expertise. Places are allocated on a first-come, first-served basis.
**Multidisciplinary Sessions**

**5 March**  
**Thursday, March 5, 16:00–17:30, Room M**  
**MS 8** Critical limb ischaemia (CLI): limb salvage or life salvage?  
Chairman’s introduction: critical limb ischaemia in daily practise  
J.A. Reekers; Amsterdam/NL  
Diagnostic imaging and outcome  
M. Koelemay; Amsterdam/NL  
The diabetic foot patient  
N.C. Schaper; Maastricht/NL  
Multidisciplinary team case discussion

**Saturday, March 7, 16:00–17:30, Studio 2015**  
**MS 16** Solving the crossword puzzle in diffuse interstitial lung disease (DILD)  
Chairman’s introduction  
H.-U. Kauczor; Heidelberg/DE  
Pulmologist’s approach: the clinical aspects  
F.J.F. Herth; Heidelberg/DE  
Pathologist’s approach and diagnosis  
A. Gschwendtner; Amberg/DE  
Radiologist’s approach, patterns and diagnosis  
C.P. Heussel; Heidelberg/DE  
DILD-board: Multidisciplinary case presentation and discussion

**6 March**  
**Friday, March 6, 08:30–10:00, Room F2**  
**MS 9** Management of rectal cancer: a paradigm shift  
Chairman’s introduction  
R.G.H. Beets-Tan, Maastricht/NL  
Organ-saving treatment: what does the surgeon want to know?  
G.L. Beets, Maastricht/NL  
Organ-saving treatment: what does the radiation oncologist want to know?  
V. Valentini, Rome/IT  
Organ-saving treatment: what is the radiologist’s role?  
R.G.H. Beets-Tan, Maastricht/NL  
Interactive case discussion: What do clinicians expect from us in organ-saving treatment management?
European Excellence in Education (E³)

The E³ programme emphasises the importance of lifelong learning. It covers the entire range of educational issues, from undergraduate medical education to subspecialised continuing professional development.

For the first time at ECR 2015, the E³ programme is structured according to the different levels defined by the European Training Curriculum for Radiology. The E³ programme consists of the following five branches, which reflect the different levels of education in radiology, as well as the different stages of an individual’s professional career:

- Rising Stars Programme
- European Diploma Prep Sessions
- The Beauty of Basic Knowledge
- ECR Academies
- ECR Master Classes
When you’ve checked in to ECR 2015 on foursquare
catch up with the latest #ECR2015 news on
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myESR
The Rising Stars Programme is designed especially for residents, students, radiographers and trainee radiographers.

It consists of Basic Sessions, Student Sessions, Student Hands-on Workshops on Ultrasound, Case-Based Diagnosis Training sessions, and the Radiology Trainees Forum Programme including the RTF Highlighted Lectures and the RTF Quiz.
ECR STUDENT REGISTRATION FOR ONLY €40
Students and radiographers-in-training under the age of 30, without any academic degree, can register for just €40.

SIX BASIC SESSIONS
Renowned professors from all over Europe give basic lectures.

STUDENT SESSIONS
The submitting authors of the best 20 abstracts will be invited to the ECR to present their work, with their accommodation and travel expenses paid by the European Society of Radiology.

STUDENT HANDS-ON WORKSHOPS
Student workshops on ultrasound, for beginners and advanced participants. Practical training made easy.
Scientific Programme

E³ – Rising Stars Programme

Basic Sessions

Special sessions suitable for residents, students, radiographers and radiographers-in-training

5 March
Thursday, March 5, 08:30–10:00, Studio 2015
Basic Session 1: Breast imaging

Mammography [A-148]
F.J. Gilbert; Cambridge/UK

Breast US [A-149]
C.S. Balleyguier; Villejuif/FR

Breast MRI [A-150]
F. Sardanelli; San Donato Milanese/IT

7 March
Saturday, March 7, 08:30–10:00, Studio 2015
Basic Session 4: Musculoskeletal trauma

Shoulder [A-504]
M. Zanetti; Zurich/CH

Knee [A-505]
K. Verstraete; Ghent/BE

Ankle [A-506]
J. Kramer; Linz/AT

5 March
Thursday, March 5, 10:30–12:00, Studio 2015
Basic Session 2: Neuroradiology

Aging and degeneration in the brain [A-199]
B. Gómez-Ansón; Barcelona/ES

Brain trauma [A-200]
M. Stajgis; Poznan/PL

Vascular malformations [A-201]
P. Vilela; Almada/PT

7 March
Saturday, March 7, 10:30–12:00, Studio 2015
Basic Session 5: Thoracic emergencies

Vascular [A-549]
T. Jargiello; Lublin/PL

Pulmonary [A-550]
C.M. Schaefer-Prokop; Amersfoort/NL

Cardiac [A-551]
V.E. Sinitsyn; Moscow/RU

6 March
Friday, March 6, 16:00–17:30, Studio 2015
Basic Session 3: Oncologic imaging

Prostate cancer [A-437]
J.O. Barentsz; Nijmegen/NL

Pancreatic cancer [A-438]
F. Caserio-Alves; Cambridge/UK

Musculoskeletal neoplasms [A-439]
M.F. Reiser; Munich/DE

8 March
Sunday, March 8, 08:30–10:00, Room L 1
Basic Session 6: Interventional radiology

Uterine fibroid embolisation [A-692]
T.J. Kroencke; Augsburg/DE

Management of trauma patients [A-693]
M. Krokidis; Cambridge/UK

Varicocele [A-694]
P. Haage; Wuppertal/DE
E³ – Rising Stars Programme

Student Sessions
Students will present their work

Thursday, March 5, 14:00–15:30, Studio 2015

Student Session 1

» SWI or T2* – which MRI sequence to use in the detection of cerebral microbleeds?
The Karolinska Imaging Dementia Study
S. Shams; Stockholm/SE

» Background parenchymal enhancement on breast MRI in women receiving chest radiotherapy for childhood Hodgkin’s lymphoma
W. Abutaleb; Cambridge/UK

» 3D quantitative assessment of lesion response to MR-guided high-intensity focused ultrasound treatment of uterine fibroids
J. Savic; Berlin/DE

» Evaluation of choroid plexus with foetal MRI: what happens in ventriculomegaly?
C. Turam; Istanbul/TR

» Anatomic and morphometric variations of the intracranial vertebrobasilar system on MSCT and MR angiography
S. Jankovic; Nis/RS

Thursday, March 5, 16:00–17:30, Studio 2015

Student Session 2

» The positive effects on CT reporting with a radiologist present at the initial clinical evaluation of polytrauma
V. Sanfilippo; Catania/IT

» An audit of the practices of reporting of staging CT scans in primary malignancies
R.D.T. Price; Birmingham/UK

» Reproducibility of a novel semi-automated software programme for Pre-TAVR CT assessment
K. Rohan; Belfast/UK

» Analysing CT images of patients who died after thrombolysis
E. Tarjányi, Debrecen/HU

» Trunk paediatric CT diagnostic reference levels
D. Fernandes; Coimbra/PT

Friday, March 6, 08:30–10:00, Studio 2015

Student Session 3

» Gastrostomy tube insertion without the use of barium sulphate as a contrast medium reduces radiation dose received by the patient in a paediatric interventional radiology setting
B.S. Kelly; Dublin/IE

» Abdominal x-rays during pregnancy
P.-M. Boarescu; Cluj-Napoca/RO

» An investigation into the cardiologists’ opinion/awareness of radiation risk as part of routine patient consent for cardiac interventional procedures
I. Banerjee; Dublin/IE

» Mamography phantoms experiment: is automatic mode the best for shooting?
O. Alekseeva; Moscow/RU

» Mammographic screening and detection of breast arterial calcification as an independent predictor of coronary atherosclerotic disease in a single ethnic cohort of African American women
J.H. Nunez; Charleston, SC/US

Friday, March 6, 10:30–12:00, Studio 2015

Student Session 4

» Teaching cross-sectional imaging to medical students using Apple iBooks: a novel educational resource
M. Sia; London/UK

» Sono4Students: peer-to-peer teaching ultrasound in a medical curriculum
K. Baharian; Bonn/DE

» Student’s FAST learning and teaching project
M. Skoczyliski, Lublin/PL

» Fuzzy clustering for the quantification of resting state network characteristics in single patients
Z. Klimaj; Budapest/HU

» Development of a new image operation system on screen using a Leap Motion sensor for dental radiology
Y. Yasumoto; Maebashi-City/JP
**E³ – Rising Stars Programme**

### Scientific Programme

#### Student Hands-on Workshops on Ultrasound

An expert team of tutors from around the world will lead students through four innovative workshops with different educational topics, improved since 2014. During one workshop, students will try four different stations, giving participants a chance to familiarise themselves with the wide range of possibilities in ultrasound. Small groups, of only five students, will be guided by one expert tutor, ensuring that individual students get the attention they need. The courses have been extremely successful over the last few years and are in great demand.

- **6 March**  
  Friday, March 6, 2015, 13:30–15:30, Room L2  
  Hands-on Workshop on Ultrasound 1  
  FAST, Lung, Echo, Intervention / Phantoms

- **7 March**  
  Saturday, March 7, 2015, 12:00–14:00, Room L2  
  Hands-on Workshop on Ultrasound 2  
  MSK

- **7 March**  
  Saturday, March 7, 2015, 15:00–17:00, Room L2  
  Hands-on Workshop on Ultrasound 3  
  Train the Tutor

- **8 March**  
  Sunday, March 8, 2015, 12:00–14:00, Room L2  
  Hands-on Workshop on Ultrasound 4  
  Abdomen

#### Radiology Trainees Forum Programme

- **5 March**  
  Thursday, March 5, 13:30–14:30, Rising Stars Lounge  
  RTF Quiz  
  Quiz-Master: J. Cáceres, Barcelona/ES

- **7 March**  
  Saturday, March 7, 10:30–12:00, Room M  
  RTF Highlighted Lectures  
  Moderators: M. Basta-Nikolic, Novi Sad/RS  
  C.A. Minou, Bucharest/RO

  - Ischemic cardiomyopathy - coronary arteries and myocardium: two sides of the same coin? [A-542]  
    R. Marano, Rome/IT

  - MRI appearances of incidental focal liver lesions: role of hepatocyte-specific contrast agents and DWI [A-543]  
    S. Gourtsoyianni, London/UK

  - Radiology and sports injuries: more than reading the image! [A-544]  
    M. Maas, Amsterdam/NL  
    (Member of ACES, Academic Center Evidence Based Sportsmedicine)

= Interactive lecture with electronic voting/self assessment
ACTIVITIES 2015

Visiting Schools
Visiting Seminars
ESOR Courses for EDiR
Scholarship Programmes
Fellowship Programmes
Teach-the-Teachers Programme
Visiting Professorship Programme
Online Courses
Tutorials
The European Diploma Prep Sessions aim to prepare prospective candidates for the European Diploma in Radiology (EDIR).

They are also suitable for residents who want an overview of the various topics relevant to imaging and for those preparing for their national board examinations.

The content of the programme reflects Level I and Level II European Training Curriculum (ETC) learning objectives across a two-year cycle. The sessions are held in close cooperation with the European Board of Radiology (EBR).

Each of the six sessions is led by three lecturers and moderated by one chairman.
E³ – European Diploma Prep Sessions

**Saturday, March 7, 08:30–10:00, Room N**
E³ 1323 Chest

- **Chairman's introduction** [A-500]
  J. Vilar; Valencia/ES

  **A. Fundamentals of chest imaging** [A-501]
  D. Tack; Baudour/BE

  **B. Inflammation and tumours of the lung** [A-502]
  H. Prosch; Vienna/AT

  **C. Mediastinum, pleura and chest wall** [A-503]
  N. Howarth; Chêne-Bougeries/CH

**Saturday, March 7, 10:30–12:00, Room N**
E³ 1423 Gastrointestinal and abdominal

- **Chairman's introduction** [A-545]
  C. Stoupis; Männedorf/CH

  **A. Hepatobiliary system** [A-546]
  Y. Menu; Paris/FR

  **B. Pancreas and spleen** [A-547]
  W. Schima; Vienna/AT

  **C. Imaging of the gastrointestinal tract** [A-548]
  R.G.H. Beets-Tan; Maastricht/NL

**Saturday, March 7, 14:00–15:30, Room N**
E³ 1523 Musculoskeletal

- **Chairman's introduction** [A-576]
  F.M.H.M. Vanhoenacker; Antwerp/BE

  **A. Traumatic disorders of the musculoskeletal system** [A-577]
  M. Maas; Amsterdam/NL

  **B. Bone tumours** [A-578]
  S.L.J. James; Birmingham/UK

  **C. Degenerative and inflammatory disorders of the musculoskeletal system** [A-579]
  K.-G.A. Hermann; Berlin/DE

**Saturday, March 7, 16:00–17:30, Room N**
E³ 1623 Breast

- **Chairman's introduction** [A-630]
  F. Pediconi; Rome/IT

  **A. Fundamentals of mammography** [A-631]
  S. Barter; Cambridge/UK

  **B. Breast cancer diagnosis and interventions** [A-632]
  M. Müller-Schimpfle; Frankfurt a. Main/DE

  **C. Advanced imaging of the female breast** [A-633]
  R.M. Mann; Nijmegen/NL

**Sunday, March 8, 10:30–12:00, Room N**
E³ 1823 Neuro

- **Chairman's introduction** [A-733]
  B. Ertl-Wagner; Munich/DE

  **A. Congenital and white matter disorders of the brain** [A-734]
  A. Rossi; Genoa/IT

  **B. Neurovascular disorders and trauma of the brain** [A-735]
  M. Forsting; Essen/DE

  **C. Tumours of the brain and spine** [A-736]
  M.M. Thurnher; Vienna/AT

**Sunday, March 8, 14:00–15:30, Room N**
E³ 1923 Principles of imaging and radiation protection

- **Chairman's introduction** [A-743]
  P. Vock; Spiegel/CH

  **A. Principles of computed tomography** [A-744]
  W.A. Kalender; Erlangen/DE

  **B. Principles of magnetic resonance imaging** [A-745]
  T. Metens; Brussels/BE

  **C. Radiation protection** [A-746]
  M. Mahesh; Baltimore, MD/US

This session is part of the EuroSafe Imaging campaign.
The Beauty of Basic Knowledge programmes focus on knowledge essential to the daily practice of radiology. The format of these sessions reflects the tradition of conventional teaching sessions, in which an experienced teacher shares his or her insights into a topic of particular relevance with a group of attendees.

A Beauty of Basic Knowledge session typically consists of a 45-minute lecture held by one speaker (plus 15 minutes for conclusions and discussion). The teaching format is usually case-based with some interaction with the attendees.

The content of the sessions is mostly tied to the Level I and Level II European Training Curriculum (ETC) learning objectives. The Beauty of Basic Knowledge sessions are suited to residents and board-certified radiologists who want to refresh their knowledge in basic topics of imaging and image-guided therapy.
Scientific Programme

E³ – The Beauty of Basic Knowledge

Skeletal Radiology

The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

Moderator: V.N. Cassar-Pullicino; Oswestry/UK

**Wednesday, March 4, 12:30–13:30, Room D1**

**E³ 24A** Plain radiographs: analysis and interpretation [A-068] LEVEL II

I.W. McCall; Devon/UK

**Thursday, March 5, 12:30–13:30, Room D1**

**E³ 24B** The concept of degeneration: the tendons [A-210] LEVEL II

K. Bohndorf; Vienna/AT

**Friday, March 6, 12:30–13:30, Room D1**

**E³ 24C** Inflammatory/infectious disorders [A-395] LEVEL II

V.N. Cassar-Pullicino; Oswestry/UK

**Saturday, March 7, 12:30–13:30, Room D1**

**E³ 24D** Tumoural and pseudotumoural MSK lesions [A-558] LEVEL II

K. Verstraete; Ghent/BE

**Sunday, March 8, 12:30–13:30, Room D1**

**E³ 24E** Metabolic, endocrine and marrow disease [A-742] LEVEL II

B. Vande Berg; Brussels/BE

Breast Imaging

The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

Moderator: J. Camps Herrero; Valencia/ES

**Wednesday, March 4, 12:30–13:30, Room B**


A. Tardivon; Paris/FR

**Thursday, March 5, 12:30–13:30, Room B**

**E³ 25B** Cracking the mystery of needles and gauges [A-209] LEVEL I

R.M. Pijnappel; Utrecht/NL

**Friday, March 6, 12:30–13:30, Room B**

**E³ 25C** Breast cancer staging: why and how [A-394] LEVEL II

K. Kinkel; Chêne-Bougeries/CH

**Saturday, March 7, 12:30–13:30, Room B**


G. Forrai; Budapest/HU

**Sunday, March 8, 12:30–13:30, Room B**

**E³ 25E** High risk lesions: solving the dilemma [A-741] LEVEL II

A. Linda; Udine/IT

Skeletal Radiology Breast Imaging

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ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).
The ECR Academies consist of a series of four to six sessions relevant to a particular area of radiology. This may be a classic organ-based field or a technically oriented area of another field related to radiology, such as management. Each ECR Academy spans several days, in which the different facets of the area in question are covered by experts in the field. An ECR Academy is a coherent course in which the different sessions complement one another in order to reflect the entirety of the field.

The ECR Academies are particularly suited to general radiologists or radiologists with a subspecialisation.
Hybrid Imaging (basic)
The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

4 March Wednesday, March 4, 16:00–17:30, Room K
E³ 418 Scanners and tracers

**Moderator:** G. Antoch, Düsseldorf/DE

A. Hybrid imaging: what systems are available and how do they work [A-108]
   T. Beyer, Vienna/AT
B. Radionuclides for PET/CT and MR/PET [A-109]
   M. Hacker, Vienna/AT
C. Radiopharmaceuticals for SPECT/CT [A-110]
   J.R. Ballinger, London/UK

5 March Thursday, March 5, 08:30–10:00, Room K
E³ 518 Imaging protocols for PET/CT and MR/PET

**Moderator:** C. Pfannenberg, Tübingen/DE

A. Does it make sense to use CT-contrast agents in PET/CT [A-179]
   G. Antoch, Düsseldorf/DE
B. PET/CT imaging protocols [A-179]
   A. Scarsbrook, Leeds/UK
C. MR/PET imaging protocols [A-180]
   O. Ratib, Geneva/CH

Hybrid Imaging (advanced)
The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

6 March Friday, March 6, 16:00–17:30, Room K
E³ 1218 MR/PET - the future of hybrid imaging?

**Moderator:** R.A. Coulden, Leicester/UK

A. For which indications is MR/PET better than PET/CT? [A-464]
   L. Umütlu, Essen/DE
B. MR/PET technology: state of the art [A-465]
   R. Assante, Naples/IT
C. Diffusion weighted MRI vs PET in oncology [A-466]
   F. Giesel, Heidelberg/DE

7 March Saturday, March 7, 08:30–10:00, Room K
E³ 1318 Advanced imaging with tracers beyond FDG

**Moderator:** J. Votrubová, Prague/CZ

A. Neuroendocrine tumours [A-529]
   S. Fanti, Bologna/IT
B. Prostate cancer [A-530]
   M.C. Roethke, Heidelberg/DE
C. Coronary atherosclerotic plaque [A-531]
   M.R. Dweck, Edinburgh/UK

7 March Saturday, March 7, 14:00–15:30, Room K
E³ 1518 Advanced hybrid imaging of brain

**Moderator:** G. Morana, Genoa/IT

A. Memory decline [A-610]
   L. Nyberg, Umeå/SE
B. Minimal cognitive impairment and dementia [A-611]
   J.O. Rinne, Turku/FI
C. Brain tumours [A-612]
   P. Bartenstein, Munich/DE

7 March Saturday, March 7, 16:00–17:30, Room K
E³ 1618 Advanced hybrid imaging in oncology

**Moderator:** K. Åhlström Riklund, Umeå/SE

A. In female pelvis [A-666]
   P.R. Ros, Cleveland, OH/US
B. In head neck cancer [A-667]
   M. Becker, Geneva/CH
C. In modern planning of radiation treatment [A-668]
   U. Nestle, Freiburg/DE
E³ – ECR Academies

Image-Guided Interventions in Oncology

The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

5 March

Thursday, March 5, 08:30–10:00, Room N
E³ 519 Hepatic primary tumours: ‘prime time’ for interventional radiologists?

» Chairman’s introduction [A-144]
M. Bezzi; Rome/IT

A. Percutaneous techniques: the clinical value of minimally invasive options [A-145]
B. Gebauer; Berlin/DE

B. Intra-arterial therapies 2.0: the embolising techniques in the era of the micro-beads [A-146]
A. Denys; Lausanne/CH

C. Intra-arterial therapies 2.0: radioembolisation as a common daily practice [A-147]
J.I. Bilbao; Pamplona/ES

6 March

Friday, March 6, 08:30–10:00, Room N
E³ 919 Colorectal liver metastases: the emerging role of interventional radiologists in oncology

» Chairman’s introduction [A-318]
P.L. Pereira; Heilbronn/DE

A. Tumour ablation: when and how can we compete with surgeons [A-319]
R.F. Grasso; Rome/IT

B. Intra-arterial drug delivery: the state of art [A-320]
M. Bezzi; Rome/IT

C. Intra-arterial radiation delivery - when and how: the clinical evidence [A-321]
T.K. Helmberger; Munich/DE

5 March

Thursday, March 5, 16:00–17:30, Room N
E³ 819 Kidney, lung and bone: an update on oncologic therapy

» Chairman’s introduction [A-246]
A.D. Kelekis; Athens/GR

A. Renal cell carcinoma: when and how can we compete with surgeons [A-247]
R.F. Grasso; Rome/IT

B. Lung tumours: the clinical evidence for percutaneous techniques [A-248]
T. de Baère; Villejuif/FR

C. Image-guided therapies for bone tumours [A-249]
A. Gangi; Strasbourg/FR

6 March

Friday, March 6, 16:00–17:30, Room N
E³ 1219 The cutting-edge technologies in image-guided tumour therapy

» Chairman’s introduction [A-433]
M. Krokidis; Cambridge/UK

A. HIFU: The ultrasound guidance [A-434]
F. Orsi; Milan/IT

B. HIFU: The magnetic resonance guidance [A-435]
A. Napoli; Rome/IT

C. Update on irreversible electroporation [A-436]
A. Nilsson; Uppsala/SE

Image-Guided Interventions in Oncology

The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).
**E³ – ECR Academies**

**Diagnostic Urogenital Radiology**

The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

### Thursday, March 5, 08:30–10:00, Room MB 5

**E³ 520 Kidney**

**Moderator:** C. Nicolau, Barcelona/ES

- **C. Acute and chronic renal infection** [A-196] J. Lopes Dias, Lisbon/PT

### Thursday, March 5, 10:30–12:00, Room MB 5

**E³ 620 Retroperitoneum and adrenals**

**Moderator:** F.M. Danza, Rome/IT

- **A. Anatomy and imaging techniques of the retroperitoneum** [A-205] M.C. Roethke, Heidelberg/DE
- **C. Differential diagnoses of adrenal lesions** [A-207] G. Heinz-Peer, St. Pölten/AT

### Thursday, March 5, 14:00–15:30, Room MB 5

**E³ 720 Prostate**

**Moderator:** J.J. Fütterer, Nijmegen/NL

- **A. Ultrasound of the prostate** [A-231] J. Venancio, Lisbon/PT
- **B. Multiparametric MRI of the prostate** [A-232] G.M. Villeirs, Gent/BE

### Thursday, March 5, 16:00–17:30, Room MB 5

**E³ 820 Upper and lower urinary tract**

**Moderator:** N. Grenier, Bordeaux/FR

- **A. CTU and MRU of the upper urinary tract** [A-300] N.C. Cowan, Portsmouth/UK
- **B. Imaging of kidney and ureter** [A-301] M.A. Cova, Trieste/IT
- **C. Imaging of bladder and urethra** [A-302] T. El-Diasty, Mansoura/EG

### Friday, March 6, 08:30–10:00, Room MB 5

**E³ 920 Gynaecology**

**Moderator:** T.M. Cunha, Lisbon/PT

- **A. MR imaging techniques and normal anatomy of the female pelvis** [A-369] C.S. Balleyguier, Villejuif/FR

### Friday, March 6, 10:30–12:00, Room MB 5

**E³ 1020 Emergencies**

**Moderator:** R.H. Oyen, Leuven/BE

- **A. Male pelvis emergencies** [A-390] M. Bertolotto, Trieste/IT

= Interactive session with electronic voting/self assessment
**Modern Imaging of the GI Tract**

The programme will be concluded with a self-assessment test, published in the new platform ‘ESR Education on demand’. ECR delegates can access the platform and the self-assessment tests through the work stations in the ECR Live & EPOS™ Lounge (1st level).

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**6 March**

**Friday, March 6, 16:00–17:30, Room C**

**E³ 1222** Perianal fistula disease: all you need to know

**Moderator:** D. Weishaupt; Zurich/CH

A. Perianal anatomy and imaging techniques [A-421]
   K. Horsthuis; Amsterdam/NL

B. Perianal fistula disease: the basics [A-422]
   S. Halligan; London/UK

C. Perianal fistula disease: advanced [A-423]
   F. Maccioni; Rome/IT

D. Interactive case discussion [A-424]
   D. Weishaupt; Zurich/CH

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**7 March**

**Saturday, March 7, 14:00–15:30, Room C**

**E³ 1522** Rectal cancer

**Moderator:** L. Blomqvist; Stockholm/SE

A. Imaging protocols [A-564]
   S. Gourtsoyianni; London/UK

B. Challenges in staging, treatment decisions and surgery for high rectal cancer [A-565]
   L. Curvo-Semedo; Coimbra/PT

C. Assessment after neoadjuvant treatment [A-566]
   R.G.H. Beets-Tan; Maastricht/NL

D. Interactive case discussion [A-567]
   L. Blomqvist; Stockholm/SE

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**Saturday, March 7, 08:30–10:00, Room C**

**E³ 1322** Imaging the postoperative patient

**Moderator:** A. Graser; Munich/DE

A. What the surgeon does: surgical procedures and normal postoperative anatomy [A-489]
   M.M. Maher; Cork/IE

B. Do I need to re-operate? Postoperative imaging and immediate complications [A-490]
   D.J.M. Tolan; Leeds/UK

C. It still hurts: follow-up imaging and long-term complications [A-491]
   L. Curvo-Semedo; Coimbra/PT

D. Interactive case discussion [A-492]
   A. Graser; Munich/DE

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**Saturday, March 7, 10:30–12:00, Room A**

**E³ 1422** Inflammatory bowel disease

**Moderator:** S.A. Taylor; London/UK

A. Cross-sectional imaging protocols [A-532]
   M.A. Patak; Zurich/CH

B. Small bowel disease [A-533]
   J. Stoker; Amsterdam/NL

C. Colitis [A-534]
   J. Rimola; Barcelona/ES

D. Interactive case discussion [A-535]
   S.A. Taylor; London/UK

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**7 March**

**Saturday, March 7, 16:00–17:30, Room C**

**E³ 1622** Oesophageal and gastric cancer

**Moderator:** W. Schima; Vienna/AT

A. Modern imaging: an update [A-619]
   A. Ba-Ssalamah; Vienna/AT

B. How to provide the perfect staging report [A-620]
   R.M. Mendelson; Perth, WA/AU

C. Assessment after treatment [A-621]
   A.M. Riddell; Sutton/UK

D. Interactive case discussion [A-622]
   W. Schima; Vienna/AT

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**Sunday, March 8, 08:30–10:00, Room C**

**E³ 1722** Gastrointestinal stromal tumours (GIST)

**Moderator:** M. Zins; Paris/FR

A. Pathology and treatment options [A-675]
   B. Seddon; London/UK

B. Disease staging and treatment planning [A-676]
   C. Hoeffel; Reims/FR

C. Treatment response assessment and disease follow-up [A-677]
   A. Graser; Munich/DE

D. Interactive case discussion [A-678]
   M. Zins; Paris/FR

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= Interactive session with electronic voting/self assessment
Interactive Teaching Sessions

**Wednesday, March 4, 08:30–10:00, Room A**

**E³ 121** Changes of the gastrointestinal tract after treatment

- **A. Gastrointestinal tumours** [A-001]
  - M. Rengo; Latina/IT
- **B. Non-tumoural intestinal diseases** [A-002]
  - J. Rimola; Barcelona/ES

**Wednesday, March 4, 10:30–12:00, Room A**

**E³ 221** The treated breast: what you need to know

- **A. Imaging after treatment of benign breast conditions** [A-065]
  - J. Camps Herrero; Valencia/ES
- **B. Imaging after treatment of breast cancer** [A-066]
  - M.H. Fuchsjaeger; Graz/AT

**Thursday, March 5, 08:30–10:00, Room A**

**E³ 521** What to look for after treatment of lung cancer

- **A. Imaging of surgically treated lung cancer** [A-128]
  - C.P. Heussel; Heidelberg/DE
- **B. Imaging of non-surgical treatment of lung cancer** [A-129]
  - B. Ghaye; Brussels/BE

**Thursday, March 5, 10:30–12:00, Room A**

**E³ 621** The treated liver

- **A. Imaging of liver transplantation** [A-197]
  - J.B. Karani; London/UK
- **B. Imaging of treated liver tumours** [A-198]
  - I. Bargellini; Pisa/IT

**Thursday, March 5, 14:00–15:30, Room A**

**E³ 721** The treated spine and joints

- **A. Imaging of the postoperative spine** [A-211]
  - P.N.M. Tyrrell; Oswestry/UK
- **B. Imaging of joint replacement** [A-212]
  - M. Zanetti; Zurich/CH

**Friday, March 6, 08:30–10:00, Room A**

**E³ 921** Thoracic changes after treatment

- **A. Drug-related conditions** [A-303]
  - T. Franquet; Barcelona/ES
- **B. Device-related conditions** [A-304]
  - G.R. Ferretti; Grenoble/FR

**Friday, March 6, 10:30–12:00, Room A**

**E³ 1021** Head and neck cancer after treatment

- **A. Imaging after surgical treatment** [A-372]
  - M. Lell; Erlangen/DE
- **B. Imaging after radiotherapy/chemotherapy** [A-373]
  - T. Beale; London/UK

= Interactive session with electronic voting/self assessment
Scientific Programme

**E³ – ECR Academies**

**Interactive Teaching Sessions**

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**Sunday, March 8, 08:30–10:00, Room A**

**E³ 1721** Cardiac CT: from stenosis assessment to risk stratification

- **A.** CT for risk stratification  
  R. Marano; Rome/IT
- **B.** Cardiac CT in the emergency room  
  G. Feuchtner; Innsbruck/AT

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**Tuesday, March 6, 16:00–17:30, Room A**

**E³ 1221** Unexpected findings on brain MRI

- **A.** Large ventricles: normal or abnormal?  
  S. Langner; Greifswald/DE
- **B.** Incidental lesions on a brain MRI  
  E.T. Tali; Ankara/TR

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**Saturday, March 7, 08:30–10:00, Room A**

**E³ 1321** Diagnostic evaluation of bone tumours

- **A.** Bone tumours: benign or malignant?  
  H.-J. van der Woude; Amsterdam/NL
- **B.** Pseudotumours: mimic bone tumours  
  F.M.H.M. Vanhoenacker; Antwerp/BE

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**Saturday, March 7, 14:00–15:30, Room A**

**E³ 1521** Skull base lesions

- **A.** Imaging of the cavernous sinus and the anterior skull base  
  D. Farina; Brescia/IT
- **B.** Imaging of the central skull base  
  D.-A. Varoquaux; Marseille/FR

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**Saturday, March 7, 16:00–17:30, Room A**

**E³ 1621** Cardiac imaging

- **A.** Patterns of delayed enhancement  
  P. Hunold; Lubeck/DE
- **B.** Cardiomyopathies: from diagnosis to prognosis  
  A. Jacquier; Marseille/FR

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= Interactive session with electronic voting/self assessment
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The ECR Master Classes focus on continuous professional development and lifelong learning. The classes are designed for subspecialised radiologists seeking cutting-edge information in their particular fields of interest. They are held by experts in the field and reflect state-of-the-art knowledge, as well as emerging trends.

During the ECR, one ECR Master Class is offered for each subspecialty in radiology (CIRSE [one on vascular and one on interventional radiology], ESCR, ESER, ESGAR, ESHNR, ESMOFIR, ESNR, ESOI, ESPR, ESSR, ESTI, ESUR, EUSOBI).
**E³ – ECR Master Classes**

### Thursday, March 5, 16:00–17:30, Room D1
**Chest**

**E³ 826**   Lung cancer staging  

**Moderator:** E. Castañer; Sabadell/ES

A. Limitations and perspectives   [A-273]  
A.R. Larici; Rome/IT

B. CT phenotypes of adenocarcinoma   [A-274]  
M. Das; Maastricht/NL

C. Functional imaging of lung cancer heterogeneity   [A-275]  
O.L. Sedlaczek; Heidelberg/DE

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### Friday, March 6, 08:30–10:00, Room MB 1
**Vascular**

**E³ 926c**   Uterine and prostate embolisation  

**Moderator:** T. Sabharwal; London/UK

A. Symptomatic uterine fibroids   [A-355]  
J.-P. Pelage; Caen/FR

B. Benign hypertrophy of the prostate   [A-356]  
H. Rio Tinto; Lisbon/PT

C. Post-partum haemorrhage (PPH)   [A-357]  
T.J. Kroencke; Augsburg/DE

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### Friday, March 6, 16:00–17:30, Room MB 3
**Interventional Radiology**

**E³ 926b**   The leading role of interventional radiology in a major trauma centre  

**Moderator:** P. Tomà; Rome/IT

A. Chest trauma   [A-362]  
J. Lammer; Vienna/AT

B. Upper abdominal trauma   [A-363]  
O.M. van Delden; Amsterdam/NL

C. Pelvic trauma: not only arteries   [A-364]  
R. Bale; Innsbruck/AT

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### Friday, March 6, 08:30–10:00, Room MB 2
**Paediatric**

**E³ 926a**   Advances in paediatric imaging  

**Moderator:** P. Tomà; Rome/IT

A. The CNS   [A-358]  
J.F. Schneider; Basle/CH

B. The MSK - infectious inflammatory disorders   [A-359]  
M. Alison; Paris/FR

C. The abdomen   [A-360]  
M. Raissaki; Iraklion/GR

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### Friday, March 6, 16:00–17:30, Room MB 4
**Emergency Radiology**

**E³ 1226b**   Acute postoperative complications in the abdomen: from diagnosis to therapy  

**Moderator:** H.C. Thoeny; Berne/CH

A. Gastrointestinal tract   [A-478]  
M.A. Patak; Zurich/CH

B. Liver and pancreas   [A-479]  
S. Wirth; Munich/DE

C. Genitourinary tract   [A-480]  
R.H. Oyen; Leuven/BE

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**Panel discussion:** Time is gold - where and when can we go faster?

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= Interactive session with electronic voting/self assessment
Scientific Programme

**E³ – ECR Master Classes**

**Friday, March 6, 16:00–17:30, Room MB 2**

**Cardiac**

**E³ 1226c Cardiac MR imaging** [LEVEL III]

**Moderator:** P. Croisille; Saint-Etienne/FR

A. **T1 and T2 mapping** [A-470]
   C. Lücke; Leipzig/DE

B. **Quantification of myocardial perfusion by MRI** [A-471]
   K. Kitaqawa; Mie/JP

C. **4D MR perfusion imaging of the myocardium** [A-472]
   R. Manka; Zurich/CH

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**Friday, March 6, 16:00–17:30, Room MB 1**

**Molecular Imaging**

**E³ 1226d Chemical exchange saturation transfer (CEST): a new toy for molecular imaging?** [LEVEL III]

**Moderator:** O. Clément; Paris/FR

A. **Physical principle** [A-467]
   M. Bock; Freiburg/DE

B. **Probes** [A-468]
   S. Aime; Turin/IT

C. **Clinical applications** [A-469]
   S. Walker-Samuel; London/UK

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**Saturday, March 7, 14:00–15:30, Room B**

**Abdominal and Gastrointestinal**

**E³ 1526 Advances in liver imaging** [LEVEL III]

**Moderator:** F. Caseiro-Alves; Coimbra/PT

A. **Molecular imaging: where do we go?** [A-561]
   F.M.A. Kiessling; Aachen/DE

B. **Liver perfusion or diffusion?** [A-562]
   M. Ronot; Clichy/FR

C. **MR/PET: blessing or curse?** [A-563]
   P.R. Ros; Cleveland, OH/US

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**Saturday, March 7, 16:00–17:30, Room E1**

**Head and Neck**

**E³ 1626a Cone-beam vs multi-detector CT in head and neck imaging** [LEVEL III]

**Moderator:** A. Trojanowska; Lublin/PL

A. **Understanding image quality and radiation dose in MDCT and CBCT** [A-643]
   M. Kachelrieß; Heidelberg/DE

B. **My finest cone-beam CT cases** [A-644]
   J.W. Casselman; Bruges/BE

C. **What can be missed on cone-beam CT: pitfalls and challenges** [A-645]
   R. Maroldi; Brescia/IT

» **Panel discussion:** Cone-beam vs multi-detector CT: pros and cons [A-646]
   A. Trojanowska; Lublin/PL

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**Saturday, March 7, 16:00–17:30, Room F1**

**Breast**

**E³ 1626b Breast imaging: improving the information to women** [LEVEL III]

**Moderator:** D. Regge; Turin/IT

A. **Radiogenomics for cancer: phenotypic and genomic heterogeneity** [A-513]
   P.L. Choyke; Bethesda, MD/US

B. **Imaging tumor heterogeneity and perfusion: predicting tumour behaviour** [A-514]
   V.J. Goh; London/UK

C. **Molecular imaging: visualising the characteristics of cancer cells** [A-515]
   G. Cook; London/UK

» **Chairman’s introduction** [A-655]
   F. Sardanelli; San Donato Milanese/IT

A. **Overdiagnosis in breast cancer screening** [A-656]
   N. Houssami; Sydney/AU

B. **Breast density, interval cancers, and underdiagnosis** [A-657]
   R.M. Pijnappel; Utrecht/NL

C. **Preoperative breast MRI** [A-658]
   K. Pinker-Domenig; Vienna/AT

» **Panel discussion:** How to deliver information to women on difficult and complex issues?
E³ – ECR Master Classes

Saturday, March 7, 16:00–17:30, Room G

**Neuro**

**E³ 1626c Epilepsy**

*Moderator:* T. Stosic-Opincal; Belgrade/RS

A. How to image epilepsy in children and adults [A-663]
   K. Koprivsek; Sremska Kamenica/RS

B. How to report MRI in patients with epilepsy [A-664]
   D. Zlatareva; Sofia/BG

C. MRI, electroclinical and neuropathological correlations [A-665]
   N. Colombo; Milan/IT

Sunday, March 8, 08:30–10:00, Room E1

**Musculoskeletal**

**E³ 1726 Osteomyelitis vs gout: what are the pearls?**

*Moderator:* L.M. Sconfienza; San Donato Milanese/IT

A. X-ray: classical patterns and challenging features [A-695]
   A. Cotten; Lille/FR

B. MRI features and their differential diagnosis [A-696]
   S. J. Ostlere; Oxford/UK

C. Ultrasound and DECT features in gout [A-697]
   A. Klauser; Innsbruck/AT
Mini Course

The Joint Course of the ESR and RSNA (Radiological Society of North America) focuses on emergency radiology.

Places are allocated on a first-come, first-served basis.

Please note that you can only take part in electronic voting via your own device (smartphone, tablet, laptop) by connecting to the WiFi network of the lecture room you are in. Once connected, you will be automatically directed to the voting website. No app required.
Joint Course of the ESR and RSNA (Radiological Society of North America): Emergency Radiology

Thursday, March 5, 08:30–10:00, Room MB 4

**MC 528 Abdominal emergencies**

**Moderator:** A. Palkó; Szeged/HU

**A. Abdominal injuries** [A-191]  
A. Palkó; Szeged/HU

**B. The enemy within: non-traumatic abdominal emergencies** [A-192]  
R.J. Zagória; San Francisco, CA/US

**C. Interactive case discussion** [A-193]  
A. Palkó; Szeged/HU  
R.J. Zagória; San Francisco, CA/US

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Thursday, March 5, 10:30–12:00, Room MB 4

**MC 628 Chest emergencies**

**Moderator:** A. Palkó; Szeged/HU

**A. Thoracic injuries** [A-202]  
M. Brink; Nijmegen/NL

**B. Non-traumatic thoracic emergencies** [A-203]  
C.M. Schaefer-Prokop; Amersfoort/NL

**C. Interactive case discussion** [A-204]  
M. Brink; Nijmegen/NL  
C.M. Schaefer-Prokop; Amersfoort/NL

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Thursday, March 5, 14:00–15:30, Room MB 4

**MC 728 CNS emergencies**

**Moderator:** A. Palkó; Szeged/HU

**A. CNS trauma and neurovascular injury** [A-228]  
H.A. Rowley; Madison, WI/US

**B. CNS non-traumatic emergencies** [A-229]  
M. Smits; Rotterdam/NL

**C. Interactive case discussion** [A-230]  
H.A. Rowley; Madison, WI/US  
M. Smits; Rotterdam/NL

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Thursday, March 5, 16:00–17:30, Room MB 4

**MC 828 General principles: paediatric and ENT emergencies**

**Moderator:** A. Palkó; Szeged/HU

**A. General principles** [A-297]  
U. Linsenmaier; Munich/DE

**B. Challenges of imaging paediatric abdominal emergencies** [A-298]  
C.J. Sivit; Cleveland, OH/US

**C. Imaging in ENT emergencies** [A-299]  
D. Nunez, New Haven, CT/US

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= Interactive session with electronic voting/self assessment
The Pros & Cons Session will examine the controversial topic: ‘Breast cancer: to screen or not to screen?’ The session will be split into one interactive and one non-interactive part.

5 March  Thursday, March 5, 16:00–17:30, Room C
PS 827 Breast cancer: to screen or not to screen?

Coordinator: F. Sardanelli; San Donato Milanese/IT
Teaser: N. Houssami; Sydney/AU
A. Mammographic screening: pros [A-240]
   A. Frigerio; Turin/IT
B. Mammographic screening: cons [A-241]
   A.B. Miller; Toronto, ON/CA
» Questions and answers [A-242]
   F. Sardanelli; San Donato Milanese/IT
   N. Houssami; Sydney/AU

= Interactive session with electronic voting/self assessment
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Due to its remarkable success at ECR 2014, the Multimedia Classroom will take place again at ECR 2015.

In this classroom, participants get a chance to solve cases on workstations supplied by several different companies.

2D and 3D image review and processing at the workstation are essential steps in the radiological workflow, which lead to the final diagnosis and report. Every radiologist needs to be trained in these tasks.

Places are allocated on a first-come, first-served basis.
Multimedia Classroom

**Thursday, March 5, 10:30–12:00, Room Q**

**MM 6** Cardiac CT (1)

- **Chairman:** F. Cademartiri; Monastier di Treviso/IT
- **Speaker of the Case review:** G. Bastarrika; Pamplona/ES
- **Tutors:**
  - K. Gruszczynska; Katowice/PL
  - C. Peebles; Southampton/UK
  - M. Rengo; Latina/IT

**Thursday, March 5, 14:00–15:30, Room Q**

**MM 7** CT angiography (1)

- **Chairman:** C. Catalano; Rome/IT
- **Speaker of the Case review:** I. Carbone; Rome/IT
- **Tutors:**
  - L. Saba; Cagliari/IT
  - G. Groezinger; Tubingen/DE
  - M. Anzidei; Rome/IT
  - J. Habets; Utrecht/NL
  - D. Beitzke; Vienna/AT

**Thursday, March 5, 16:00–17:30, Room Q**

**MM 8** Oncologic imaging (1)

- **Chairman:** V.J. Goh; London/UK
- **Speaker of the Case review:** I. Bargellini; Pisa/IT
- **Tutors:**
  - F. Nensa; Essen/DE
  - M. Schamann; Heilbronn/DE
  - D. Prezzi; Brighton/UK
  - F. Astegiano; Sommariva Perno/IT
  - C.N. De Cecco; Rome/IT
  - E. Rachetta; Candidolo/IT

**Friday, March 6, 10:30–12:00, Room Q**

**MM 10** MDCT in emergencies (1)

- **Chairman:** M. Scaglione; Castel Volturno/IT
- **Speaker of the Case review:** U. Linsenmaier; Munich/DE
- **Tutors:**
  - G. Goh; Melbourne/AU
  - S. Vaidya; London/UK
  - V. Miele; Rome/IT

**Friday, March 6, 14:00–15:30, Room Q**

**MM 11** CT angiography (2)

- **Chairman:** C. Catalano; Rome/IT
- **Speaker of the Case review:** I. Carbone; Rome/IT
- **Tutors:**
  - L. Saba; Cagliari/IT
  - G. Groezinger; Tubingen/DE
  - M. Anzidei; Rome/IT
  - J. Habets; Utrecht/NL
  - D. Beitzke; Vienna/AT

**Friday, March 6, 16:00–17:30, Room Q**

**MM 12** Cardiac CT (2)

- **Chairman:** F. Cademartiri; Monastier di Treviso/IT
- **Speaker of the Case review:** G. Bastarrika; Pamplona/ES
- **Tutors:**
  - K. Gruszczynska; Katowice/PL
  - C. Peebles; Southampton/UK
  - M. Rengo; Latina/IT

**Saturday, March 7, 10:30-12:00, Room Q**

**MM 14** Oncologic imaging (2)

- **Chairman:** V.J. Goh; London/UK
- **Speaker of the Case review:** I. Bargellini; Pisa/IT
- **Tutors:**
  - F. Nensa; Essen/DE
  - M. Schamann; Heilbronn/DE
  - D. Prezzi; Brighton/UK
  - F. Astegiano; Sommariva Perno/IT
  - C.N. De Cecco; Rome/IT
  - E. Rachetta; Candidolo/IT

**Saturday, March 7, 14:00–15:30, Room Q**

**MM 15** MDCT in emergencies (2)

- **Chairman:** M. Scaglione; Castel Volturno/IT
- **Speaker of the Case review:** U. Linsenmaier; Munich/DE
- **Tutors:**
  - G. Goh; Melbourne/AU
  - S. Vaidya; London/UK
  - V. Miele; Rome/IT
Refresher Courses
Scientific Sessions

Refresher Courses, as the name suggests, aim to refresh knowledge, reviewing and updating the more basic subjects for those who have not kept up to speed with certain developments, or who just need a reminder — something of interest not only to young radiologists but also experienced doctors.

The length of each course is 90 minutes (classic Refresher Course: three parts of 30 minutes each, including the introduction and time for discussion; integrated Refresher Course: three parts of 23 minutes each, leaving enough time for the introduction by the chairpersons and the panel discussion).

The course will be given by two or three lecturers and led by one or two moderator(s) on a defined subject of clinical imaging, imaging technique, interventional radiology and related subjects.

Accepted papers for oral presentation are presented in the Scientific Sessions. Places are allocated on a first-come, first-served basis.

For the first time at ECR 2015, at the end of each Scientific Session, attendees will be asked to vote, via smartphones or tablets, for their favourite paper. The presenter of the most popular paper will be awarded a certificate by the session moderators.
### Refresher Courses / Scientific Sessions

#### Abdominal and Gastrointestinal

**March 4, Wednesday**
- **RC 101** Pitfalls in interpretation in pancreatic imaging, Room B
  - Chairman’s introduction [A-003]
  - R. Pozzi-Mucelli, Verona/IT
  - A. Pancreatic cancer or pancreatitis [A-004]
    - R. Manfredi, Verona/IT
  - B. Cystic tumours vs pseudocysts [A-005]
    - M.A. Bali, Brussels/BE
  - C. Incidental findings [A-006]
    - C. Stoupis, Männedorf/CH
  - Panel discussion: How do we manage difficult cases and incidental findings?

**March 4, Wednesday, 10:30–12:00, Room B**
- **SS 201a** Liver MRI [B-0001 – B-0011]
  - Moderators: S. Phoa, Amsterdam/NL
  - F. Regini, Florence/IT

**March 4, Wednesday, 10:30–12:00, Room M**
- **SS 201b** Improving abdominopelvic imaging: technical aspects [B-0034 – B-0044]
  - Moderators: D.J. Breen, Southampton/UK
  - R. Malago, Verona/IT

**March 4, Wednesday, 14:00–15:30, Room B**
- **SS 301a** Diffuse liver and pancreatic diseases [B-0217 – B-0227]
  - Moderators: M.A. Bali, Brussels/BE
  - L. Cevasco, Genoa/IT

**March 4, Wednesday, 14:00–15:30, Room M**
- **SS 301b** Gastro-oesophageal and small bowel imaging [B-0250 – B-0260]
  - Moderators: D. Akata, Ankara/TR
  - S. Bickelhaupt, Heidelberg/DE

**March 4, Wednesday, 16:00–17:30, Room B**
- **RC 401** Misses and difficulties in abdominal imaging [LEVEL III]
  - Chairman’s introduction [A-069]
    - J. Stoker, Amsterdam/NL
  - A. Mesentery and peritoneum [A-070]
    - D. Akata, Ankara/TR
  - B. Occult GI bleeding [A-071]
    - A. Filippone, Chieti/IT
  - C. Bowel dilatation [A-072]
    - E. Danse, Brussels/BE
  - Panel discussion: What have I learned from misses? Can improvements be made to reduce misses?

**March 5, Thursday, 08:30–10:00, Room B**
- **RC 501** The many faces of benign liver lesions [LEVEL III]
  - Moderator: L. Grenacher, Heidelberg/DE
  - A. Vascular [A-130]
    - M. Karcaaltincaba, Ankara/DE
  - B. Cystic-Biliary [A-131]
    - G. Brancatelli, Palermo/IT
  - C. Hepatocellular [A-132]
    - R.L. Baron, Chicago, IL/US

**March 5, Thursday, 10:30–12:00, Room B**
- **SS 601a** Focal liver lesions [B-0423 – B-0432]
  - Moderators: M. Krokidis, Cambridge/UK
  - B. Marincek, Cleveland, OH/US

**March 5, Thursday, 10:30–12:00, Room M**
- **SS 601b** Inflammatory bowel disease [K-08, B-0456 – B-0465]
  - Moderators: R. Del Vescovo, Rome/IT
  - C. Hohl, Siegen/DE

**March 5, Thursday, 14:00–15:30, Room B**
- **SS 701a** Liver steatosis and fibrosis [K-15, B-0605 – B-0614]
  - Moderators: K.J. Beiderwellen, Essen/DE
  - L. Martí-Bonmatí, Valencia/ES

**March 5, Thursday, 14:00–15:30, Room MB 2**
- **SS 701b** Colonic imaging [B-0735 – B-0745]
  - Moderators: P. Lefere, Roeselare/BE
  - T. Mang, Vienna/AT
REFRESHER COURSES / SCIENTIFIC SESSIONS

ABDOMINAL AND GASTROINTESTINAL

6 March

Friday, March 6, 08:30–10:00, Room B

RC 901  Technical advances in liver and pancreatic imaging  [LEVEL II]

Moderator:  C. Bartolozzi; Pisa/IT
A. CEUS and elastography  [A-305]
G.H. Mostbeck; Vienna/AT
B. MRI: diffusion, perfusion and elastography  [A-306]
B.E. Van Beers; Clichy/FR
C. Liver-specific contrast agents  [A-307]
B.J. Op de Beeck; Antwerp/B

Friday, March 6, 10:30–12:00, Room F2

SS 1001  Rectal cancer and ano-rectal imaging  [K-19, B-0832 – B-0841]

Moderators:  L. Curvo-Semedo; Coimbra/PT
F. Maccioni; Rome/IT

6 March

Saturday, March 7, 08:30–10:00, Room B

RC 1301  Pancreatic inflammation  [LEVEL III]

Moderator:  G. Morana; Treviso/IT
A. Acute pancreatitis  [A-488]
M. Zins; Paris/FR
B. Chronic pancreatitis and IPMN  [A-487]
C. Paraudodonal and autoimmune pancreatitis  [A-488]
S.A. Jackson; Plymouth/UK

Saturday, March 7, 10:30–12:00, Room F2

SS 1401  Abdominal and vascular imaging  [B-0972 – B-0981]

Moderators:  M.M. Maher; Cork/IT
M. Ronot; Clichy/FR

6 March

Saturday, March 7, 16:00–17:30, Room B

RC 1601  From my workstation: difficult cases on review  [LEVEL II]

» Chairman’s introduction  [A-615]
A. Maier; Vienna/AT
A. Pancreas  [A-615]
C. Triantopoulos; Athens/GR
B. Small bowel  [A-617]
E. Biscaldi; Genoa/IT
C. Rectum  [A-618]
D.M. Lambregts; Maastricht/NL

» Panel discussion:
What can we learn from challenging cases?

8 March

Sunday, March 8, 08:30–10:00, Room B

RC 1701  Colorectal cancer liver metastases: assessing tumour response  [LEVEL III]

» Chairman’s introduction  [A-671]
C.D. Becker; Geneva/CH
A. Current treatment options  [A-672]
T.K. Helmberger; Munich/DE
B. Morphological biomarkers  [A-673]
S. Skehan; Dublin/IE
C. Functional biomarkers  [A-674]
D. Koh; Sutton/UK

» Panel discussion:
The ‘vanishing’ lesions: what should you do?

8 March

Online

SS 1801  HCC diagnosis and treatment  [K-25, B-1046 – B-1055]

Moderators:  C. Ayuso Colella; Barcelona/ES
A. Furlan; Pittsburgh, PA/US

Saturday, March 7, 10:30–12:00, Room B

SS 1901a  Pancreas: tumours, pancreatitis  [B-1164 – B-1174]

Moderators:  V. Maniatis; Aabenraa/DK
P. Rodríguez; Madrid/ES

Saturday, March 7, 16:00–17:30, Room B

RC 1601  From my workstation: difficult cases on review  [LEVEL II]

» Chairman’s introduction  [A-615]
A. Maier; Vienna/AT
A. Pancreas  [A-615]
C. Triantopoulos; Athens/GR
B. Small bowel  [A-617]
E. Biscaldi; Genoa/IT
C. Rectum  [A-618]
D.M. Lambregts; Maastricht/NL

» Panel discussion:
What can we learn from challenging cases?
Refresher Courses / Scientific Sessions

Breast

Wednesday, March 4, 08:30–10:00, Room F2
RC 102  Breast ultrasound 2015 [LEVEL III]
Moderator: K. Kinkel, Chêne-Bougeries/CH
A. Evidence for screening in dense breasts [A-031]
  - V. Girardi, Brescia/IT
B. Elastosonography: true advances or false hope? [A-032]
  - C.S. Baileuyquier, Villejuif/FR
  - S.C.E. Diepstraten, Utrecht/NL

Wednesday, March 4, 10:30–12:00, Room C
SS 202a  Imaging for neoadjuvant chemotherapy [B-0012 – B-0022]
Moderators: P. Martínez-Miravete; Zaragoza/ES
  - F. Thibault; Paris/FR

SS 202b  Axillary imaging and nodal staging [B-0109 – B-0119]
Moderators: A. Athanasiou; Athens/GR
  - M. Dietzel; Jena/DE

Wednesday, March 4, 14:00–15:30, Room A
SS 302a  Breast density and imaging biomarkers [B-0206 – B-0216]
Moderators: L.A. Carbonaro; San Donato Milanese/IT
  - C. Colin, Lyon/FR

SS 302b  Risk imaging and stratification [B-0228 – B-0238]
Moderators: E. Azavedo; Stockholm/SE
  - P.A.T. Baltzer, Vienna/AT

Wednesday, March 4, 16:00–17:30, Room F2
RC 402  Radio-pathological correlation: more important than you thought [LEVEL III]
» Chairman’s introduction [A-093]
  - F.J. Gilbert, Cambridge/UK
A. Pre-treatment planning [A-094]
  - C.K. Kuhl, Aachen/DE
B. Intra-operative specimen evaluation [A-095]
  - J. Camps Herrero, Valencia/ES
C. Radiologist meets pathologist [A-096]
  - B. Ingold-Heppner, Berlin/DE
» Panel discussion: How to enhance the interaction between radiologists and pathologists?

Thursday, March 5, 10:30–12:00, Room C
SS 602  Imaging techniques and interventions [B-0434 – B-0444]
Moderators: F. Engelken; Berlin/DE
  - F. Pediconi; Rome/IT

Thursday, March 5, 14:00–15:30, Room C
SS 702  Breast: diffusion-weighted MR imaging (DWI) [B-0615 – B-0625]
Moderators: G. Forrai; Budapest/HU
  - C. Iacconi; Carrara/IT

Friday, March 6, 10:30–12:00, Room C
SS 1002  Breast MRI indications and MR-guided biopsy [B-0757 – B-0767]
Moderators: G. Esen; Istanbul/TR
  - S. Schrading; Aachen/DE
Saturday, March 7, 08:30–10:00, Room F2
RC 1302 Tailoring breast cancer screening to risk level

Moderator: B. Brkljačić, Zagreb/HR
A. Calculating, using and improving individual risk estimates [A-516]
S.W. Duffy; London/UK
B. Intermediate risk: the grey zone [A-517]
S.H. Heywang-Köbrunner; Munich/DE
C. High risk: MRI alone? [A-518]
F. Sardanelli; San Donato Milanese/IT

Saturday, March 7, 10:30–12:00, Room C
SS 1402 Digital breast tomosynthesis: the new mammography

Moderators: A.M.J. Bluekens; Breda/NL
R. Schulz-Wendtland; Erlangen/DE

Saturday, March 7, 14:00–15:30, Room F2
RC 1502 Update on BI-RADS

Moderator: L.J. Pina Insausti; Pamplona/ES
A. Mammography [A-597]
U. Bick; Berlin/DE
B. Ultrasound [A-598]
A. Evans; Dundee/UK
C. MRI [A-599]
P.A.T. Baltzer; Vienna/AT

Saturday, March 7, 08:30–10:00, Room F2
RC 1702 Emerging breast imaging technologies

Moderator: P. Skaane; Oslo/NO
A. Digital breast tomosynthesis (DBT) [A-707]
D. Bernardi; Trento/IT
B. Multiparametric high-field MRI and more [A-708]
T.H. Helbich; Vienna/AT
C. High-resolution radionuclide breast imaging (PEM and molecular imaging) [A-709]
M. Herranz; Santiago/ES
**Scientific Sessions**

**Cardiac**

**Wednesday, March 4, 08:30–10:00, Room MB 2**

**RC 103** Hybrid cardiovascular imaging: where should we go? [LEVEL III]

**Moderator:** G. Feuchtner; Innsbruck/AT

A. PET/CT: present state and future prospects [A-051]
   S.G. Nekolla; Munich/DE

B. SPECT/CT: is it just PET/CT’s little brother? [A-052]
   M. Hacker; Vienna/AT

C. MR/PET: do we really need it? [A-053]
   H.H. Quick; Essen/DE

**Wednesday, March 4, 10:30–12:00, Room N**

**SS 203a** Tissue characterisation [B-0045 – B-0055]

**Moderators:** N. Kawel-Böhm; Chur/CH
   B. Velthuis; Utrecht/NL

**Wednesday, March 4, 10:30–12:00, Room MB 3**

**SS 203b** Heart rate: disorders and imaging issues [B-0173 – B-0183]

**Moderators:** M. Grothoff; Leipzig/DE
   R.J. Perea; Barcelona/ES

**Wednesday, March 4, 14:00–15:30, Room N**

**SS 303a** Coronary atherosclerosis [K-05, B-0261 – B-0270]

**Moderators:** N.R. Mollet; Turnhout/BE
   M. Urbanczyk-Zawadzka; Krakow/PL

**Wednesday, March 4, 14:00–15:30, Room MB 3**

**SS 303b** Cardiac function and flow [B-0390 – B-0400]

**Moderators:** P. Croisille; Saint-Etienne/FR
   P. Donato; Coimbra/PT

**Wednesday, March 4, 16:00–17:30, Room MB 2**

**RC 403** Quantification of myocardial perfusion: which test is the best (PET, MRI, MDCT)? [LEVEL III]

**Moderator:** M. Williams; Edinburgh/UK

A. PET for evaluation of perfusion, absolute myocardial blood flow and coronary flow reserve [A-114]
   S. Kajander; Turku/FI

B. Stress perfusion CT imaging for the detection and quantification of relevant coronary stenosis [A-115]
   F. Bamberg; Munich/DE

C. Analysis of myocardial perfusion using MRI [A-116]
   R. Manka; Zurich/CH

**Thursday, March 5, 08:30–10:00, Room MB 2**

**RC 503** Imaging of cardiac valves: new trends [LEVEL III]

**Moderator:** F. Puiglesi; London/UK

A. Echocardiography remains the reference technique [A-184]
   T. Binder; Vienna/AT

B. MRI is the best comprehensive approach [A-185]
   M. Francone; Rome/IT

C. Does CT have a role in diagnosing valvular disease? [A-186]
   G. Feuchtner; Innsbruck/AT

**Thursday, March 5, 10:30–12:00, Room MB 3**

**SS 603a** Myocardial infarction and coronary intervention [K-09, B-0466 – B-0475]

**Moderators:** M. Francone; Rome/IT
   M. Gutberlet; Leipzig/DE

**Thursday, March 5, 10:30–12:00, Room MB 3**

**SS 603b** Valvular disease [K-14, B-0595 – B-0604]

**Moderators:** G. Feuchtner; Innsbruck/AT
   M. Gardarsdottir; Reykjavik/IS

**Thursday, March 5, 14:00–15:30, Room MB 3**

**SS 703** Work-up of coronary artery disease [B-0746 – B-0756]

**Moderators:** M. Das; Maastricht/NL
   S. Mirsadraee; Edinburgh/UK
Cardiac

Thursday, March 5, 16:00–17:30, Room MB 2
RC 803 Imaging of heart failure

Moderators:
A. Kallifatidis; Thessaloniki/GR
T. Leiner; Utrecht/NL

» Chairman’s introduction [A-289]
M. Gutberlet; Leipzig/DE

A. Current ESC and AHA guidelines: how to choose imaging techniques in heart failure patients? [A-290]
J.T. Ortiz-Pérez; Barcelona/ES

B. Differentiating the causes for heart failure: is MRI the indisputable gold standard? [A-291]
T. Leiner, Utrecht/NL

C. SPECT as an alternative imaging technique [A-292]
F. Caobelli; Hannover/DE

» Panel discussion: What is the preferred comprehensive imaging test in heart failure?

Friday, March 6, 10:30–12:00, Room N
SS 1003a Myocardial perfusion imaging [B-0789 – B-0799]

Moderators: R.W. Bauer; Frankfurt/DE
G.I. Kirova-Nedialkova; Sofia/BG

Friday, March 6, 10:30–12:00, Room MB 3
SS 1003b Non-ischaemic myocardial disease [B-0896 – B-0905]

Moderators: I. Carbone; Rome/IT
S.D. Rud; St. Petersburg/RU
**Refresher Courses / Scientific Sessions**

**Chest**

**Wednesday, March 4, 08:30–10:00, Room D1**

**RC 104 Pulmonary vasculitis and collagen vascular diseases**

**Moderator:** A. Persson; Linköping/SE

A. **Pulmonary manifestations of collagen vascular diseases**  [A-034]
   S.R. Desai; London/UK

B. **Large-vessel vasculitis**  [A-035]
   J. Vilar; Valencia/ES

C. **HRCT patterns in pulmonary vasculitis**  [A-036]
   C.M. Schaefer-Prokop; Amersfoort/NL

D. **Inflammation and remodelling**  [A-037]
   A.A. Bankier; Boston, MA/US

**Wednesday, March 4, 14:00–15:30, Room D1**

**SS 304 Intervential procedures and follow-up**

[B-0326 – B-0336]

**Moderators:** I. Vollmer; Barcelona/ES
   J.E. Wildberger; Maastricht/NL

**Wednesday, March 4, 16:00–17:30, Room D1**

**RC 404 HRCT - patterns in chest radiology: back to basics and beyond**  [LEVEL III]

» **Chairman’s introduction**  [A-097]
   H. Prosch; Vienna/AT

A. **Secondary pulmonary lobule anatomy: essential to tackle with the nodular pattern**  [A-098]
   T. Frauenfelder; Zurich/CH

B. **Linear and reticular pattern**  [A-099]
   F. Molinari; Lille/FR

C. **GGO opacities and consolidation**  [A-100]
   I.E. Tyurin; Moscow/RU

» **Panel discussion: Is it always easy to detect a pattern? Tips for success**

**Thursday, March 5, 08:30–10:00, Room D1**

**RC 504 COPD, airways disease and beyond**

» **Chairman’s introduction**  [A-168]
   P.A. Grenier; Paris/FR

A. **COPD in HRCT: what should we report?**  [A-169]
   N. Sverzellati; Parma/IT

B. **Airways disease: the role of expiratory CT**  [A-170]
   A. Devaraj; London/UK

C. **Is there a role for MRI?**  [A-171]
   M.O. Welpütz; Heidelberg/DE

» **Panel discussion: When should we do expiratory CT, and when should we consider doing an MRI?**

**Thursday, March 5, 14:00–15:30, Room D1**

**SS 604 Pulmonary nodule**

[K-12, B-0531 – B-0540]

**Moderators:** C. Mueller-Mang; Vienna/AT
   M. Sánchez; Barcelona/ES

**Friday, March 6, 10:30–12:00, Room D1**

**SS 1004 Pulmonary hypertension and thromboembolic disease**

[B-0842 – B-0852]

**Moderators:** E.E.J.G. Coche; Brussels/BE
   B. Graca; Coimbra/PT

**Friday, March 6, 16:00–17:30, Room D1**

**RC 1204 Mediastinal disease revisited**  [LEVEL III]

**Moderator:** J. Dinkel; Munich/DE

A. **The crucial role of chest x-ray: mediastinal lines and stripes**  [A-458]
   J. Cáceres; Barcelona/ES

B. **Mediastinal masses: role of CT**  [A-459]
   V.E. Sinitsyn; Moscow/RU

C. **A new look at the mediastinum: role of MRI and PET/CT**  [A-460]
   E.J.R. van Beek; Edinburgh/UK
Saturday, March 7, 08:30–10:00, Room D1
RC 1304  Occupational lung diseases: the known and the less known

Moderator: N. Karabulut, Denizli/TR
A. Silicosis and coal workers’ pneumoconiosis [A-519]
  K. Marten-Engelke, Göttingen/DE
B. Asbestos-related disease [A-520]
  S.J. Copley, London/UK
C. Uncommon occupational lung diseases [A-521]
  L. Flors, Charlottesville, VA/US

Saturday, March 7, 10:30–12:00, Room D1
SS 1404  CT dose reduction and MR indications

[B-0982 – B-0992]

Moderators: J. Broncano, Cordoba/ES
E.J. Stern, Seattle, WA/US

Saturday, March 7, 14:00–15:30, Room D1
RC 1504  Pulmonary arterial hypertension

Moderator: R. Cesar, Golnik/SI
A. An overview of pulmonary artery hypertension [A-600]
  N.J. Screaton, Cambridge/UK
B. CT in pulmonary artery hypertension [A-601]
  M.-P. Revel, Paris/FR
C. MRI in pulmonary artery hypertension [A-602]
  J. Biederer, Groß-Gerau/DE

Sunday, March 8, 10:30–12:00, Room D1
SS 1804  Obstructive pulmonary diseases and reduced lung function

[B-1109 – B-1119]

Moderators: G.R. Ferretti, Grenoble/FR
A.P. Parkar, Bergen/NO

Sunday, March 8, 14:00–15:30, Room D1
SS 1904  Infection, transplantation and quality issues

[B-1249 – B-1259]

Moderators: C.J. Herold, Vienna/AT
N.J. Screaton, Cambridge/UK
**Scientific Programme**

### Refresher Courses / Scientific Sessions

**Computer Applications**

**Wednesday, March 4, 08:30–10:00, Room N**

**RC 105 Mobile IT in radiology**

» Chairman's introduction [A-015]
   E. Neri; Pisa/IT

A. Tablet-computers: a technical overview [A-016]
   J. Fernandez-Bayó; Sabadell/ES

B. Reading DICOM images on the tablet [A-017]
   O. Ratib; Geneva/CH

C. Mobile teleradiology: radiological features of the tablet-computer [A-018]
   E.R. Ranschaert; ‘s-Hertogenbosch/NL

» Panel discussion: Confidence in the use of tablets in our clinical practice

**Wednesday, March 4, 14:00–15:30, Room Z**

**SS 305 Imaging biomarkers**

[B-0239 – B-0249]

Moderators: A. Alberich-Bayarri; Valencia/ES

M. de Bruijne; Rotterdam/NL

**Thursday, March 5, 10:30–12:00, Room Z**

**SS 605 Dose tracking: assessment and reduction of artefacts**

[B-0445 – B-0455]

Moderators: N. Kachenoura; Paris/FR

J.H. Thrall; Boston, MA/US

**Friday, March 6, 16:00–17:30, Room MB 3**

**RC 1205 Update on computer-aided diagnosis (CAD)**

» Chairman's introduction [A-473]
   M. Langer; Freiburg/DE

A. CT colonography and CAD [A-474]
   S.A. Taylor; London/UK

B. CAD for lung nodules [A-475]
   A.R. Larici; Rome/IT

C. CAD for breast cancer detection [A-476]
   U. Bick; Berlin/DE

» Panel discussion: Is CAD ready for prime time?

**Sunday, March 8, 10:30–12:00, Room Z**

**SS 1805 Data sharing and content-based data retrieval**

[B-1035 – B-1045]

Moderators: P. Sögner; Feldkirch/AT

C.G. Trumm; Munich/DE

**Sunday, March 8, 14:00–15:30, Room Z**

**SS 1905 Methods for image interpretation and reporting**

[K-28, B-1186 – B-1195]

Moderators: M. Fatehi; Tehran/IR

W.J. Niessen; Rotterdam/NL
Wednesday, March 4, 08:30–10:00, Room MB 1
RC 106 Functional and multimodality neuroimaging

Moderator: T. H. Helbich, Vienna/AT
A. MR/PET chances and challenges [A-048]
   V. Schulz; Aachen/DE
B. Advanced MR neuroimaging techniques [A-049]
   M. Smits; Rotterdam/NL
C. Clinical applications of PET/CT in neurology [A-050]
   A. H. Jacobs; Münster/DE

Wednesday, March 4, 10:30–12:00, Room Z
SS 206 Clinical molecular imaging
[B-0023 – B-0033]

Moderators: M. Eisenblätter, Münster/DE
            F. A. Gallagher, Cambridge/UK

Saturday, March 7, 10:30–12:00, Room Z
SS 1406 Experimental molecular imaging and exploratory clinical studies
[B-0930 – B-0938]

Moderators: N. Lassau; Villejuif/FR
            M. Wildgruber; Munich/DE
Refresher Courses / Scientific Sessions

Genitourinary

**Wednesday, March 4, 08:30–10:00, Room G**

**RC 107 Stone disease: new concepts**

» Chairman’s introduction [A-041]
  A. Magnusson; Uppsala/SE

A. From the Stone Age to the New Age [A-042]
  N.C. Cowan; Portsmouth/UK

B. The contribution of imaging in planning urinary stone therapy [A-043]
  U. Patel; London/UK

C. Urolithiasis: changing concepts in medical and surgical approach [A-044]
  G. Kramer; Vienna/AT

» Panel discussion: How do density and/or volume of the stone in failure dictate how to efficiently treat stone disease?

**Wednesday, March 4, 10:30–12:00, Room G**

**SS 207 Gynaecological malignancies**

[K-03, B-0131 – B-0140]

**Moderators:** M. Horta; Lisbon/PT  
K. Kinkel; Chêne-Bougeries/CH

**Wednesday, March 4, 14:00–15:30, Room G**

**SS 307 Prostate MR imaging**

[K-06, B-0348 – B-0357]

**Moderators:** D. Junker; Innsbruck/AT  
J. Rørvik; Bergen/NO

**Wednesday, March 4, 16:00–17:30, Room G**

**RC 407 Prostate imaging: how I do it**

» Chairman’s introduction [A-104]
  H.-P. Schlemmer; Heidelberg/DE

A. Detection and assessment of aggressiveness [A-105]
  P. Puech; Lille/FR

B. Image-guided biopsy and staging [A-106]
  F. Cornud; Paris/FR

C. Role of imaging in active surveillance and detection of recurrence [A-107]
  V. Logager; Copenhagen/DK

» Panel discussion: How can multiparametric MRI be implemented as clinical standard across multiple centres?

**Thursday, March 5, 10:30–12:00, Room G**

**SS 607a DWI in prostate cancer**

[B-0552 – B-0562]

**Moderators:** T. Durmus; Berlin/DE  
G.M. Villeirs; Gent/BE

**Thursday, March 5, 10:30–12:00, Room MB 2**

**SS 607b Benign gynaecological pathology**

[B-0586 – B-0594]

**Moderators:** J. Arnáiz; Doha/QA  
R.N. Lucas; Lisbon/PT

**Thursday, March 5, 14:00–15:30, Room G**

**SS 707 New frontiers and contrast agents in GU imaging**

[B-0702 – B-0712]

**Moderators:** S.M. Dudea; Cluj-Napoca/RO  
M.R. Onur; Elazig/TR

**Thursday, March 5, 16:00–17:30, Room G**

**RC 807 Lessons I learned from mistakes in kidney and adrenal imaging**

» Chairman’s introduction [A-279]
  G. Heinz-Peer; St. Pölten/AT

A. Renal cancer [A-280]
  T. Bäuerle; Erlangen/DE

B. PET/CT in nephrourology [A-281]
  M. Notohamiprodjo; Tübingen/DE

C. Ablation mistakes in tumour percutaneous RFA [A-282]
  W.W. Mayo-Smith; Boston, MA/US

» Panel discussion: How can multiparametric MRI be implemented as clinical standard across multiple centres?
**Refresher Courses / Scientific Sessions**

**Genitourinary**

**Saturday, March 7, 08:30–10:00, Room G**

**RC 1307  Female pelvic imaging: how I do it**  
**Moderator:** K. Kinkel, Chêne-Bougeries/CH  
A. Imaging female congenital anomalies  
I. Thomassin-Naggara, Paris/FR  
B. PET-CT in the female pelvis: how I do it  
A.G. Rockall, London/UK  
C. How to image cystic tumours of the ovary  
R. Forstner, Salzburg/AT

**Saturday, March 7, 10:30–12:00, Room G**

**SS 1407  Adrenal and kidney imaging**  
**Moderators:** C.D. Alt, Hamburg/DE  
O. Nikolic, Novi Sad/RS

**Sunday, March 8, 10:30–12:00, Room G**

**SS 1807  GU special topics**  
[B-1131 – B-1141]  
**Moderators:** A. Tsili, Ioannina/GR  
A. Wibmer, Vienna/AT

**Sunday, March 8, 14:00–15:30, Room G**

**SS 1907  Urinary stones, ureters and bladder pathology**  
[B-1270 – B-1280]  
**Moderators:** M. Bertolotto, Trieste/IT  
L. Ponhold, St. Pölten/AT
Refresher Courses / Scientific Sessions

**Head and Neck**

**Wednesday, March 4, 08:30–10:00, Room D2**

**RC 108** Head and neck emergency: for the general radiologist or the patient? [LEVEL I+II]

- **Moderator:** M. Díez Blanco; Santander/ES
  - **A.** Findings that can’t wait for follow-up [A-038]
    - M.G. Mack; Munich/DE
  - **B.** Imaging infection: when, how and why? [A-039]
    - M. Becker; Geneva/CH
  - **C.** Where medical history and previous images help to rule out tumour [A-040]
    - D. Farina; Brescia/IT

**Wednesday, March 4, 10:30–12:00, Room MB 1**

**SS 208** Advanced imaging in salivary glands and lymph nodes, including elastography [B-0152 – B-0162]

- **Moderators:** S.J. Golding; Oxford/UK
  - L. Grzycka-Kowalczyk; Lublin/PL

**Wednesday, March 4, 14:00–15:30, Room MB 1**

**SS 308** Temporal bone and temporomandibular joint imaging and new MRI techniques [B-0368 – B-0378]

- **Moderators:** J. Frühwald-Pallamar; Vienna/AT
  - S. Petrovic; Nis/RS

**Wednesday, March 4, 16:00–17:30, Room D2**

**RC 408** The orbit: you can’t see what you haven’t learnt [LEVEL I+II]

- **Moderator:** Ü.Y. Ayaz; Mersin/TR
  - **A.** Anatomy and commonly encountered postoperative findings [A-101]
    - N. Hosten; Greifswald/DE
  - **B.** Congenital and inflammatory disease [A-102]
    - T.A. Ferreira; Leiden/NL
  - **C.** Benign and malignant neoplastic tumours [A-103]
    - W. Muller-Forell; Mainz/DE

**Thursday, March 5, 08:30–10:00, Room D2**

**RC 508** Pitfalls in interpretation of head and neck disease [LEVEL I+II]

- **Moderator:** M.M. Lemmerling; Ghent/BE
  - **A.** Anatomical variants without clinical consequence [A-172]
    - F.A. Pameijer; Utrecht/NL
  - **B.** Anatomical variants posing surgical risks [A-173]
    - T. Beale; London/UK
  - **C.** Distinct head and neck disease or systemic disease? [A-174]
    - B.F. Schuknecht; Zurich/CH

**Thursday, March 5, 10:30–12:00, Room MB 1**

**SS 608** Oncologic imaging: CT, MRI and PET [K-13, B-0574 – B-0583]

- **Moderators:** S. Bisdas; Tübingen/DE
  - C. Czerny; Vienna/AT

**Thursday, March 5, 14:00–15:30, Room MB 1**

**SS 708** CT including cone beam CT: image quality, dosimetry and clinical applications [B-0724 – B-0734]

- **Moderators:** B. Gómez-Ansón; Barcelona/ES
  - D.-A. Varoquaux; Marseille/FR

**Friday, March 6, 10:30–12:00, Room MB 1**

**SS 1008** Thyroid and parathyroid imaging [B-0874 – B-0884]

- **Moderators:** A. Leva; Budapest/HU
  - J. Olliff; Birmingham/UK
**Refresher Courses / Scientific Sessions**  
**Interventional Radiology**

### Wednesday, March 4, 08:30–10:00, Room MB 3

**RC 109** Image fusion for image-guided interventions

- **Chairman’s introduction** [A-054]  
  V. Bérczi, Budapest/HU
- **A. Cone-beam CT in vascular and non-vascular interventional procedures** [A-055]  
  T.F. Jakobs, Munich/DE
- **B. US image fusion** [A-056]  
  C. Ewersen, Copenhagen/DK
- **C. How can we improve targeting in image-guided interventions: stereotaxis, robotics and advanced techniques** [A-057]  
  R. Baie, Innsbruck/AT
- **Panel discussion: Practical and economic issues in using high-end guidance for interventional radiology**

### Wednesday, March 4, 10:30–12:00, Room MB 3

**SS 209** Peripheral arterial and venous interventions

- **[B-0120 – B-0130]**
  - **Moderators:** E. Dósa, Budapest/HU  
  K. Schurmann, Dortmund/DE

### Wednesday, March 4, 14:00–15:30, Room D2

**SS 309** Musculoskeletal interventions

- **[B-0337 – B-0347]**
  - **Moderators:** J.L. del Cura Rodriguez, Bilbao/ES  
  T. Lehnert, Frankfurt a. Main/DE

### Wednesday, March 4, 16:00–17:30, Room MB 3

**RC 409** Basic principles of percutaneous tumour ablation

- **Chairman’s introduction** [A-117]  
  T. de Baère, Villejuif/FR
- **A. Thermal ablation with RF** [A-118]  
  V. Válek, Brno/CZ
- **B. Microwave ablation: what is the difference?** [A-119]  
  P.L. Pereira, Heilbronn/DE
- **C. Cryoablation: ice can be better than heat** [A-120]  
  D.J. Breen, Southampton/UK
- **D. Irreversible electroporation: principles, technique and clinical applications** [A-121]  
  A. Nilsson, Uppsala/SE
- **Panel discussion: Selection of ablation modalities: operator’s preference or evidence-based?**

### Thursday, March 5, 08:30–10:00, Room MB 3

**RC 509** Percutaneous treatment of chronic back pain and sciatica

- **Chairman’s introduction** [A-187]  
  A. Ganić, Strasbourg/FR
- **A. Sacroiliac joint syndrome** [A-188]  
  D.J. Wilson, Oxford/UK
- **B. Facet joint syndrome** [A-189]  
  A.D. Kelekis, Athens/GR
- **C. Intervertebral disc syndrome** [A-190]  
  D. Filippidis, Athens/GR
- **Panel discussion: How can imaging methods identify candidates for percutaneous therapy or surgery?**

### Thursday, March 5, 10:30–12:00, Room D2

**SS 609** Neuro interventions

- **[B-0541 – B-0550]**
  - **Moderators:** N. Amoretti, Nice/FR  
  A. Ringelstein, Essen/DE

### Thursday, March 5, 14:00–15:30, Room D2

**SS 709a** TIPS and portal vein intervention

- **[B-0691 – B-0701]**
  - **Moderators:** A. Krajina, Hradec Králové/CZ  
  A. Massmann, Homburg/DE

### Thursday, March 5, 14:00–15:30, Room K

**SS 709b** Biopsy techniques and solid tumour ablation

- **[B-0713 – B-0723]**
  - **Moderators:** O. Akhan, Ankara/TR  
  M. Reiter, Vienna/AT
**Refresher Courses / Scientific Sessions**

**Interventional Radiology**

**Thursday, March 5, 16:00–17:30, Room MB 3**

RC 809  Current trends in transarterial chemoembolisation (TACE) and radioembolisation for HCC  

» Chairman’s introduction  
  T.K. Helmburger; Munich/DE

A. Imaging in therapy planning and follow-up  
  V. Vilgrain; Dijon/FR

B. TACE and TAE for HCC: new agents, new schedules, new combinations  
  R. Lencioni; Pisa/IT

C. Radioembolisation: critical appraisal of techniques and guidelines for treatment  
  J.I. Bilbao; Pamplona/ES

» Panel discussion: The intermediate HCC patient: how can we stratify patients and allocate them to different therapies?

**Friday, March 6, 10:30–12:00, Room D2**

SS 1009  Percutaneous ablation in liver tumours  
  [K-20, B-0853 – B-0862]

Moderators:  
  T. Denecke; Berlin/DE  
  F. Orsi; Milan/IT

**Saturday, March 7, 10:30–12:00, Room D2**

SS 1409  Radioembolisation and chemoembolisation in liver tumours  
  [K-23, B-0993 – B-1001]

Moderators:  
  R.F. Dondelinger; Liège/BE  
  T.A. Heusner; Hamm/DE

**Sunday, March 8, 10:30–12:00, Room D2**

SS 1809  GI and abdominal interventions  
  [B-1120 – B-1130]

Moderators:  
  A.D. Karaosmanoğlu; Ankara/TR  
  A. Veltri; Turin/IT

**Sunday, March 8, 14:00–15:30, Room D2**

SS 1909a  Embolotherapy  
  [K-31, B-1260 – B-1269]

Moderators:  
  A. Bharadwaz; Aarhus/DK  
  O. Pellerin; Paris/FR

**Sunday, March 8, 14:00–15:30, Room K**

SS 1909b  Aortic interventions  
  [K-32, B-1281 – B-1290]

Moderators:  
  M. Köcher; Olomouc/CZ  
  B. Peynircioğlu; Ankara/TR
Scientific Programme

Refresher Courses / Scientific Sessions

Musculoskeletal

4 March

Wednesday, March 4, 10:30–12:00, Room E1

SS 210 Intervention

Moderators: I. Iacucci, Rome/IT
E. Llopis, Valencia/ES

4 March

Wednesday, March 4, 14:00–15:30, Room E1

SS 310 Fractures, spinal injuries and spine

Moderators: M. Muto, Naples/IT
G. Scheurecker, Linz/AT

4 March

Wednesday, March 4, 16:00–17:30, Room E1

RC 410 Trauma to the paediatric skeleton

Moderator: K. Rosendahl, Bergen/NO

A. Pelvis/hips [A-085]
N. Boutry, Lille/FR

B. Elbow [A-086]
K.J. Johnson, Birmingham/UK

C. Spine [A-087]
L.B.O. Jans, Ghent/BE

5 March

Thursday, March 5, 10:30–12:00, Room E1

SS 610a Shoulder, brachial plexus

Moderators: K.-F. Kreitner, Mainz/DE
D. Maric, Banja Luka/BA

5 March

Thursday, March 5, 10:30–12:00, Room K

SS 610b Lower extremity (1)

Moderators: K. Kapuscinska, Krakow/PL
M. Tzalonikou, Athens/GR

5 March

Thursday, March 5, 14:00–15:30, Room E1

SS 710 Lower extremity (2)

Moderators: A.M. Ierardi, Varese/IT
M. Reijnierse, Leiden/NL

5 March

Thursday, March 5, 16:00–17:30, Room E1

RC 810 The ankle and foot

Moderator: J.L. Bloem, Leiden/NL

A. Ankle sprain: patterns of injury [A-256]
J.L.M.A. Gielen, Antwerp/BE

B. Inflammatory disorders [A-257]
R. Lalam, Oswestry/UK

C. Tumours and tumour-like lesions [A-258]
I.-M. Noebauer-Huhmann, Vienna/AT
Refresher Courses / Scientific Sessions
Musculoskeletal

**6 March**
**Friday, March 6, 10:30–12:00, Room E1**
**SS 1010a** Tumours, systemic diseases and muscles
[B-0800 – B-0810]
**Moderators:** M.C. De Jonge; Amsterdam/NL
A. Yakimov; Moscow/RU

**7 March**
**Saturday, March 7, 08:30–10:00, Room E1**
**RC 1310** How I do it and report
**Moderator:** K. Wörtler; Munich/DE
**A. MRI of the hip** [A-507]
J. Teh; Oxford/UK
**B. MRI of the spine and sacroiliac joints** [A-508]
C. Schueler-Weidekamm; Vienna/AT
**C. MRI of the hand** [A-509]
M. Shahabpour; Brussels/BE

**6 March**
**Friday, March 6, 10:30–12:00, Room MB 4**
**SS 1010b** Hand, upper extremity
[B-0807 – B-0917]
**Moderators:** I. Beggs; Edinburgh/UK
E.E. Drakonaki; Iraklion/GR

**6 March**
**Friday, March 6, 16:00–17:30, Room E1**
**RC 1210** Sports injuries to the knee: improving my report
**Moderator:** P. Robinson; Leeds/UK
**A. Reporting meniscal tears: pitfalls and how I avoid them** [A-440]
G. Andreisek; Zurich/CH
**B. The collateral ligaments and posterolateral corner: what are they, why do they matter and how do I assess them?** [A-441]
V. Vasilevska Nikodinovska; Skopje/MK
**C. The patellofemoral joint and osteochondral injuries: how do I assess and what do I report?** [A-442]
C. Schaeffeler; Chur/CH

**7 March**
**Saturday, March 7, 10:30–12:00, Room E1**
**SS 1410** Spine
[K-22, B-0939 – B-0948]
**Moderators:** M.A. Cova; Trieste/AT
C. Giraudo; Vienna/AT

**6 March**
**Friday, March 6, 10:30–12:00, Room E1**
**SS 1010a** Tumours, systemic diseases and muscles
[B-0800 – B-0810]
**Moderators:** M.C. De Jonge; Amsterdam/NL
A. Yakimov; Moscow/RU

**7 March**
**Saturday, March 7, 10:30–12:00, Room E1**
**SS 1410** Spine
[K-22, B-0939 – B-0948]
**Moderators:** M.A. Cova; Trieste/AT
C. Giraudo; Vienna/AT

**8 March**
**Sunday, March 8, 14:00–15:30, Room E1**
**RC 1510** The hand and wrist
**Moderator:** A. Piaoro; Athens/GR
**A. Patterns of injury** [A-586]
A. Navas Canete; Leiden/NL
**B. Inflammatory disorders** [A-587]
H. Guerini; Paris/FR
**C. Tumours and tumour-like lesions** [A-588]
E. Llopis; Valencia/ES

**8 March**
**Sunday, March 8, 10:30–12:00, Room E1**
**SS 1810** Arthritis
[K-26, B-1067 – B-1076]
**Moderators:** A. Cotten; Lille/FR
S. Weckbach; Heidelberg/DE

**8 March**
**Sunday, March 8, 14:00–15:30, Room E1**
**SS 1910** Knee
[K-29, B-1207 – B-1216]
**Moderators:** L. Cerezal; Santander/ES
L.M. Sconfienza; San Donato Milanese/IT
Scientific Programme

Refresher Courses / Scientific Sessions

Neuro

Wednesday, March 4, 08:30–10:00, Room K
RC 111 The paediatric brain and spine: not only tumours

Moderator: T.A.G.M. Huisman; Baltimore, MD/US
A. Congenital abnormalities of the brain [A-045]
B. Paediatric brain neuro emergencies [A-046]
C. The paediatric spine: tips and tricks [A-047]

Wednesday, March 4, 10:30–12:00, Room MB 5
SS 211a Inflammatory and degenerative disorders

Moderators: A. Bozzao; Rome/IT
N. Guberina; Essen/DE

Wednesday, March 4, 10:30–12:00, Room E2
SS 211b Vascular disorders, diagnosis and treatment

Moderators: K.D. Kurz; Stavanger/NO
Z. Merhemic; Sarajevo/BA

Wednesday, March 4, 14:00–15:30, Room E2
SS 311a Brain trauma, degenerative and spine diseases

Moderators: P. Barsi; Budapest/HU
J. Hodel; Lille/FR

Wednesday, March 4, 14:00–15:30, Room MB 5
SS 311b Hypertension and stenosis

Moderators: D. Gürbüz; Istanbul/TR
T.A. Yousry; London/UK

Wednesday, March 4, 16:00–17:30, Room N
RC 411 Imaging findings in treated brain tumours

Moderator: B.F. Schuknecht; Zurich/CH
A. How to perform imaging in the postoperative patient: imaging protocols, normal and abnormal findings after surgery [A-082]
M.A. Lucic; Sremska Kamenica/RS
B. Understanding radiation- and chemotherapy-induced changes after treatment of brain tumours [A-083]
Y. Özsunar; Aydin/TR
C. Treated brain tumours: progression or pseudoprogression? [A-084]
P.C. Maly Sundgren; Lund/SE

Thursday, March 5, 08:30–10:00, Room G
RC 511 Cerebrovascular disease

Moderator: M.P. Wattjes; Amsterdam/NL
A. Vascular distribution territories: arterial and venous [A-175]
D. Dorfler; Erlangen/DE
B. Detecting microhaemorrhages: why are they important? What are they? Should we use GRE T2* or SWI or both? [A-176]
H.R. Jäger; London/UK
C. Cerebral perfusion studies in cerebrovascular disease: techniques, indications and applications [A-177]
P.M. Parizel; Antwerp/BE

Thursday, March 5, 14:00–15:30, Room MB 5
SS 711 Brain tumour (2)

Moderators: J.S. Bauer; Munich/DE
P. Due-Tonnessen; Oslo/NO
**Refresher Courses / Scientific Sessions**

**Neuro**

**Friday, March 6, 10:30–12:00, Room E2**

**SS 1011  Ischaemic stroke (1)**

[B-0811 – B-0821]

**Moderators:**

E. Avdagic; Sarajevo/BA
A. Bonafe; Montpellier/FR

**Saturday, March 7, 08:30–10:00, Room E2**

**RC 1311  Reporting spine imaging studies**  LEVEL II

**Moderator:** M.A. Papathanasiou; Athens/GR

**A. Disc nomenclature and treatment strategy** [A-510]

M. Gallucci; L’Aquila/IT

**B. What to say and not to say in your report** [A-511]

M.M. Thurner; Vienna/AT

**C. Introduction to structured reporting in the spine** [A-512]

J. Van Goethem; Antwerp/BE

**Thursday, March 7, 10:30–12:00, Room E2**

**SS 1411  Ischaemic stroke (2)**

[B-0950 – B-0959]

**Moderators:**

A. Biondi; Besançon/FR
W. Van Hecke; Antwerp/BE

**Saturday, March 7, 14:00–15:30, Room G**

**RC 1511  White spots in the brain**  LEVEL II

**Moderator:** E.T. Tali; Ankara/TR

**A. White spots and blot in the brain: what are they?** [A-607]

T.A. Yousry; London/UK

**B. How can I improve my reporting of T2-hyperintense lesions?** [A-608]

A. Rovira-Cañellas; Barcelona/ES

**C. Is there a need for quantitative reporting of white matter lesions?** [A-609]

F. Barkhof; Amsterdam/NL

**Sunday, March 8, 08:30–10:00, Room G**

**RC 1711  Screening for cerebral aneurysms**  LEVEL II

**Moderator:** A. van der Lugt; Rotterdam/NL

**A. Who are the patients that I should screen for aneurysms? Why should I screen?** [A-718]

M. Muto; Naples/IT

**B. Which technique to use? CT angiography, time-of-flight MR angiography, contrast-enhanced MR angiography, catheter angiography** [A-719]

M. Voormolen; Antwerp/BE

**C. The interventional neuroradiology perspective on diagnosis, management and follow-up** [A-720]

L. Pierot; Reims/FR

**Sunday, March 8, 10:30–12:00, Room E2**

**SS 1811  Brain epilepsy and inflammation**

[B-1077 – B-1087]

**Moderators:**

T. Kau; Klagenfurt/AT
M. Mantatzis; Alexandroupolis/GR

**Sunday, March 8, 14:00–15:30, Room E2**

**SS 1911  Advanced imaging**

[B-1218 – B-1227]

**Moderators:**

M.T. Fernández Taranilla; Toledo/ES
L. Pierot; Reims/FR
Scientific Programme

Refresher Courses / Scientific Sessions

Paediatric

**Wednesday, March 4, 08:30–10:00, Room MB 5**

**RC 112** Autoimmune disorders in children

**Moderator:** V. Donoghue; Dublin/IE

**A. The joints in juvenile idiopathic arthritis** [A-062]
  - L.-S. Ording-Müller; Oslo/NO

**B. The digestive tract** [A-063]
  - E. Alexopoulou; Athens/GR

**C. Multiple sclerosis in children** [A-064]
  - C. Adamsbaum; Le Kremlin Bicêtre/FR

**Wednesday, March 4, 10:30-12:00, Room MB 2**

**SS 212** Chest imaging and dosimetry

[K-04, B-0163 – B-0172]

**Moderators:**
  - L.-S. Ording Müller, Oslo/NO
  - C. Owens, London/UK

**Wednesday, March 4, 10:30-12:00, Room MB 2**

**SS 212** Chest imaging and dosimetry

[K-04, B-0163 – B-0172]

**Moderators:**
  - L.-S. Ording Müller, Oslo/NO
  - C. Owens, London/UK

**Wednesday, March 4, 16:00–17:30, Room MB 5**

**RC 1212** Hepatobiliary imaging in children

**Moderator:** D. Akinci; Ankara/TR

**A. Imaging of liver masses** [A-481]
  - D. Roebuck; London/UK

**B. Imaging of biliary disorders** [A-482]
  - S.G.F. Robben; Maastricht/NL

**C. Intervention in the hepatobiliary system** [A-483]
  - S. Franchi-Abella; Le Kremlin-Bicêtre/FR

**Friday, March 6, 10:30–12:00, Room MB 2**

**SS 1012** Abdominal imaging

[B-0885 – B-0895]

**Moderators:**
  - M. Haliloglu; Ankara/TR
  - A.S. Littooij; Leiden/NL

**Friday, March 6, 16:00–17:30, Room MB 5**

**RC 1212** Hepatobiliary imaging in children

**Moderator:** D. Akinci; Ankara/TR

**A. Imaging of liver masses** [A-481]
  - D. Roebuck; London/UK

**B. Imaging of biliary disorders** [A-482]
  - S.G.F. Robben; Maastricht/NL

**C. Intervention in the hepatobiliary system** [A-483]
  - S. Franchi-Abella; Le Kremlin-Bicêtre/FR

**Saturday, March 7, 14:00–15:30, Room M**

**RC 1512** Key issues in paediatric imaging

**Chairman’s introduction** [A-572]
  - R.A.J. Nievelstein; Utrecht/NL

**A. Communicating effectively with parents and carers** [A-573]
  - J. McNulty; Dublin/IE

**B. Paediatric imaging: when less is more** [A-574]
  - J. Portelli; Msida/MT

**C. The importance of clinically acceptable image quality** [A-575]
  - E. Sorantin; Graz/AT

» Panel discussion: What are the essentials in education and training for paediatric imaging?

**Sunday, March 8, 08:30–10:00, Room M**

**RC 1712** Imaging the head and skull base

**Moderator:** J.W. Casselman, Bruges/BE

**A. Faciocraniosynostoses revisited** [A-685]
  - F. Di Rocco; Paris/FR

**B. All about the paediatric pituitary gland** [A-686]
  - M.I. Argyropoulou; Ioannina/GR

**C. Imaging of the orbit: the globe and the lacrimal gland** [A-687]
  - P.C. Maly Sundgren, Lund/SE
**Refresher Courses / Scientific Sessions**

**Physics in Radiology**

**Wednesday, March 4, 08:30–10:00, Room M**

**RC 113 Cone-beam CT**

*Moderator: J.N. Vassileva, Vienna/AT*

- **A. Fundamentals of cone-beam CT** [A-012]
  
  J. Kuntz, Heidelberg/DE

- **B. Medical applications of cone-beam CT** [A-013]
  
  M. Grass, Hamburg/DE

- **C. 3D dentomaxillofacial imaging** [A-014]
  
  H. Bosmans, Leuven/BE

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**Wednesday, March 4, 10:30–12:00, Room F2**

**SS 213 Advances in CT imaging**

*B-0098 – B-0108*

*Moderators: J. Geleijns, Leiden/NL
  
  A. Stratis, Leuven/BE*

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**Wednesday, March 4, 14:00–15:30, Room F2**

**SS 313 Advances in MR technology**

*B-0315 – B-0325*

*Moderators: E. Atalar, Ankara/TR
  
  J. Theysohn, Essen/DE*

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**Thursday, March 5, 08:30–10:00, Room M**

**RC 513 Artefacts and pitfalls in tomography**

*LEVEL III*

*Moderator: J. Damilakis, Iraklion/GR*

- **A. CT** [A-141]
  
  M. Kachelrieß, Heidelberg/DE

- **B. PET/CT** [A-142]
  
  T. Beyer, Vienna/AT

- **C. MR/PET** [A-143]
  
  H.H. Quick, Essen/DE

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**Thursday, March 5, 14:00–15:30, Room F2**

**SS 713 Innovations in CT technology**

*B-0670 – B-0680*

*Moderators: P.E. Colombo, Milan/IT
  
  I. Sechopoulos, Atlanta, GA/US*

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**Friday, March 6, 10:30–12:00, Room M**

**SS 1013 Optimisation of patient dose in CT**

*K-17, B-0779 – B-0788*

*Moderators: A. Del Guerra, Pisa/IT
  
  A. Kowalik, Poznan/PL*

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**Friday, March 6, 16:00–17:30, Room M**

**RC 1213 Good radiation and bad radiation? How to assess and communicate radiation risk to patients and referring physicians**

*LEVEL III*

*Moderator: O. Ciraj-Bjelac, Belœgrade/RS*

- **A. Radiation risk: a patient’s perspective** [A-429]
  
  E. Briers, Hasselt/BE

- **B. Radiation risks for patients and staff** [A-430]
  
  P. Gilligan, Dublin/IE

- **C. Risk in MRI** [A-431]
  
  R. Peeters, Leuven/BE

- **D. Communicating risks to patients and the public** [A-432]
  
  N. Leitgeb, Graz/AT

*This session is part of the EuroSafe Imaging campaign.*

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**Saturday, March 7, 08:30–10:00, Room M**

**RC 1313 IT tools for dose tracking and workflow optimisation**

*LEVEL III*

*Moderator: A. Trianni, Udine/IT*

- **A. Digital Imaging and Communication in Medicine (DICOM) and Integrating the Healthcare Enterprise (IHE) standards** [A-497]
  
  D. Peck, Detroit, MI/US

- **B. Patient dose tracking: a must have?** [A-498]
  
  D. Zamora, Seattle, WA/US

- **C. Optimising technique using patient dose tracking software - tips and tricks** [A-499]
  
  D. Murphy, Dublin/IE

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**Saturday, March 7, 16:00–17:30, Room M**

**RC 1613 MR: artefacts and devices**

*LEVEL III*

*Moderator: D. Bor, Ankara/TR*

- **A. Image artefacts in MRI and their mitigation** [A-627]
  
  D.J. Lurie, Aberdeen/UK

- **B. Imaging around metal implants: artefact reduction in MRI** [A-628]
  
  C. McGrath, Belfast/IE

- **C. Artefacts in perfusion and diffusion MRI** [A-629]
  
  I. Tsougos, Larissa/GR

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**Sunday, March 8, 10:30–12:00, Room F2**

**SS 1813 Novel digital imaging techniques**

*B-1098 – B-1108*

*Moderators: M. Brink, Nijmegen/NL
  
  N. Kalyvas, Athens/GR*

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**Sunday, March 8, 14:00–15:30, Room F2**

**SS 1913 Patient and staff dose studies**

*K-30, B-1239 – B-1248*

*Moderators: H. de las Heras Gala, Madrid/ES
  
  G. Paulo, Coimbra/PT*
Scientific Programme

Refresher Courses / Scientific Sessions

Radiographers

**Wednesday, March 4, 10:30–12:00, Room K**

**SS 214 Musculoskeletal radiography**

[B-0141 – B-0151]

**Moderators:** A.J. Grainger; Leeds/UK
V. Syrgiamiotis; Athens/GR

**Wednesday, March 4, 14:00–15:30, Room K**

**SS 314 Quality issues**

[K-07, B-0358 – B-0367]

**Moderators:** J. McNulty; Dublin/IE
J. Wieczorek; Warsaw/PL

**Friday, March 6, 08:30–10:00, Room D2**

**RC 914 Enhancing patient safety culture in radiology**

» **Chairmen’s introduction** [A-344]
  P. Bezzina; Msida/MT
  L. Donoso; Barcelona/ES

A. **Patient safety culture: the importance of EU clinical audit guidelines** [A-345]
  S. Mc Fadden; Newtownabbey/UK

B. **Quality assurance of radiology equipment: the first step to creating a safe working environment** [A-346]
  J. Santos; Coimbra/PT

C. **From medical imaging referral to final outcome: a critical analysis of the process** [A-347]
  D. Remedios; Harrow/UK

» **Panel discussion: Teamwork as a fundamental concept for creating a patient safety culture in a medical imaging department: why and how?**

**Friday, March 6, 10:30–12:00, Room K**

**SS 1014 Radiation dose optimisation**

[B-0863 – B-0873]

**Moderators:** D.R. Kool; Nijmegen/NL
D. Pekarovic; Ljubljana/SI

**Saturday, March 7, 08:30–10:00, Room D2**

**RC 1314 Radiography and evidence-based research: the way forward**

» **Chairmen’s introduction** [A-522]
  I. Henderson; Aberdeen/UK
  M.G.M. Hunink; Rotterdam/NL

A. **The fundamentals of evidence-based research** [A-523]
  G. Paulo; Coimbra/PT

B. **Application of evidence-based research into practice** [A-524]
  M. Gellert; Odense/DK

C. **Improvement of patient outcomes by evidence-based research** [A-525]
  K.G. Vikestad, Oslo/NO

» **Panel discussion: How to promote research as a tool for professional development?**

**Saturday, March 7, 10:30–12:00, Room K**

**SS 1414 Dose management in medical imaging**

[B-1014 – B-1024]

**Moderators:** H.H. Hjemly; Oslo/NO
C. Loewe; Vienna/AT

**Saturday, March 7, 14:00–15:30, Room D2**

**RC 1514 CT from A to Z**

» **Chairmen’s introduction** [A-603]
  E. Aqadakos; Athens/GR
  M. Prokop; Nijmegen/NL

A. **Exploring and exploiting CT technology: back to the future** [A-604]
  D. Pekarovic; Ljubljana/SI

B. **Patient safety in CT: radiation dose and CM administration** [A-605]
  F. Zarb; Msida/MT

C. **Tips and tricks for CT optimisation** [A-606]
  R. Boa; Rotterdam/NL

» **Panel discussion: How should a radiographer develop the interface between patient and technology?**
Refresher Courses / Scientific Sessions

Radiographers

7 March  
Saturday, March 7, 16:00–17:30, Room D2
RC 1614  MRI from the cradle to the future

» Chairman's introduction  [A-659]
  B. Hafsland, Nesttun/NO
  M. Maas, Amsterdam/NL
A. MRI sequences made easy  [A-660]
  S. Brandão, Porto/PT
B. Functional MRI: new clinical applications  [A-661]
  S. Brandão, Porto/PT
C. Safety in MRI: all you have to know  [A-662]
  C. Vandulek, Kaposvár/HU
» Panel discussion: What to expect from MRI in the future of medical imaging?

8 March  
Sunday, March 8, 08:30–10:00, Room D2
RC 1714  Looking into PET/CT

» Chairman's introduction  [A-714]
  K. Åhlström Riklund, Umeå/SE
  D. Pekarovic, Ljubljana/SI
A. Clinical indications of PET/CT  [A-715]
  P.H. Hogg, Manchester/UK
B. Quality control for PET/CT  [A-716]
  W. van den Broek, Nijmegen/NL
C. Safety in PET/CT  [A-717]
  J. Rio, Coimbra/PT
» Panel discussion: What is the role of a radiographer in PET/CT?

8 March  
Sunday, March 8, 10:30–12:00, Room K
SS 1814  Professional challenges for radiographers
[B-1142 – B-1152]

Moderators:  S. Geers-van Gemeren, Utrecht/NL
  C. Roche, Galway/IE
### Refresher Courses / Scientific Sessions
#### Vascular

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<td>Moderators: E. Broutzos, Athens/GR P. Vilela, Almada/PT</td>
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<td><strong>Wednesday, March 4, 16:00–17:30, Room MB 1</strong></td>
<td>RC 415 Basic principles of varicose vein diagnosis and endovascular treatment LEVELIII</td>
<td>Moderator: D. Karnabatidis, Patras/GR</td>
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<td><strong>Thursday, March 5, 08:30–10:00, Room MB 1</strong></td>
<td>RC 515 Imaging and intervention in acute ischaemic stroke LEVELIII</td>
<td>Moderator: P. Zampakis, Patras/GR</td>
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<td>Moderators: D. Karnabatidis, Patras/GR D. Tomais, Athens/GR</td>
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<td>RC 815 EVAR endoleaks: imaging and management LEVELIII</td>
<td>Moderator: F. Fanelli, Rome/IT</td>
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<td><strong>Friday, March 6, 10:30–12:00, Room Z</strong></td>
<td>SS 1015 Low dose and low contrast in vascular imaging [B-0768 – B-0777]</td>
<td>Moderators: K. Nikolau, Tübingen/DE G. Tsoumakidou, Strasbourg/FR</td>
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**Scientific Programme**

### Oncologic Imaging

#### Wednesday, March 4, 08:30–10:00, Room F1

**RC 116** How about the lymph nodes?  
» Chairman’s introduction  
J.J. Futterer; Nijmegen/NL  
A. The current criteria for nodal involvement on CT/MRI  
W. Schima; Vienna/A  
B. MRI techniques: what do they contribute?  
H.C. Thoeny; Berne/CH  
C. Nuclear medicine: PET and other techniques  
T. Barwick; London/UK  
» Panel discussion: When and how will imaging make diagnostic biopsy unnecessary?

#### Wednesday, March 4, 10:30–12:00, Room F1

**SS 216** Thoracic oncology  
[B-0087 – B-0097]  
Moderators:  
I.E. Tyurin; Moscow/RU  
A. Vilaplana; Sevilla/ES

#### Wednesday, March 4, 14:00–15:30, Room F1

**SS 316** Molecular imaging and new agents  
[B-0304 – B-0314]  
Moderators:  
A. Pomoni; Lausanne/CH  
A.E. Sundin; Stockholm/SE

#### Thursday, March 5, 08:30–10:00, Room F1

**RC 516** Gastro-entero-pancreatic neuroendocrine tumours (GEP-NET): a multidisciplinary update  
» Chairman’s introduction  
A.E. Sundin; Stockholm/SE  
A. Tumour biology, pathogenesis and classification  
M. Pavel; Berlin/DE  
B. The current role of nuclear medicine  
S. Fanti; Bologna/IT  
C. Anatomical imaging: transabdominal US, endoscopic US, MDCT and MRI: which is the most appropriate imaging approach?  
V. Vilgrain; Clichy/FR  
» Panel discussion: The future of hybrid imaging

#### Thursday, March 5, 10:30–12:00, Room F1

**SS 616** Whole-body imaging of systemic tumour spreading  
[K-11, B-0510 – B-0519]  
Moderators:  
K.N. De Paepe; Leuven/BE  
C.J. Johnston; Dublin/IE

#### Thursday, March 5, 14:00–15:30, Room F1

**SS 716** Urogenital oncology  
[B-0659 – B-0669]  
Moderators:  
R.A. Kubik-Huch; Baden/CH  
I. Thomassin-Nagagga; Paris/FR

#### Friday, March 6, 08:30–10:00, Room F1

**RC 916** New insights in bone tumour imaging  
» Chairman’s introduction  
D. Vanel; Bologna/IT  
A. New insights in treatment-associated changes in patients with bone tumours  
C.R. Krestan; Vienna/AT  
B. New insights in staging and restaging musculoskeletal tumours introduction  
J.L. Bloem; Leiden/NL  
C. New insights in hybrid imaging for multiple myeloma  
G. Sommer; Basle/CH  
» Panel discussion: The future of bone tumour imaging

#### Friday, March 6, 10:30–12:00, Room F1

**SS 1016** Advances in imaging metastatic disease  
[K-18, B-0822 – B-0831]  
Moderators:  
D. Filippadis; Athens/GR  
M. Muller-Schimpfle; Frankfurt a. Main/DE

#### Saturday, March 7, 10:30–12:00, Room F1

**SS 1416** Prostate cancer imaging  
[B-0960 – B-0970]  
Moderators:  
E.C. Pereira Mendes Serrao; Cambridge/UK  
G. Petralia; Milan/IT

#### Sunday, March 8, 10:30–12:00, Room F1

**SS 1816** Response assessment: new concepts  
[K-27, B-1088 – B-1097]  
Moderators:  
B. Banko; Belgrade/RS  
A. Sohaib; London/UK

#### Sunday, March 8, 14:00–15:30, Room F1

**SS 1916** Oncologic imaging of the GI tract  
[B-1228 – B-1238]  
Moderators:  
G. Conte; Milan/IT  
J. Sosna; Jerusalem/IL
**Thursday, March 5, 08:30–10:00, Room MB 4**

**RC 517 Acute abdomen:**

Comprehensive management guidelines for imaging

» Chairman’s introduction: management priorities in patients after acute abdomen  [A-058]
M. Stajgis; Poznan/PL
A. Chest and abdomen  [A-059]
M. Scaglione; Castel Volturno/IT
B. Spine and pelvis  [A-060]
F. H. Berger; Amsterdam/NL
C. Extremities  [A-061]
U. Linsenmaier; Munich/DE

» Panel discussion: How to speed up the diagnosis and further management of acute abdomen patients

**Thursday, March 5, 10:30–12:00, Room MB 4**

**SS 217 Emergency imaging:**

How to be more precise  [B-0184 – B-0194]

Modерators:  K.H. Nieboer; Brussels/BE
G. Scheller; Opfikon/CH

**Thursday, March 5, 14:00–15:30, Room MB 4**

**SS 317 Update on imaging approach in trauma patients**  [B-0401 – B-0411]

Modерators:  J.B. Dormagen; Oslo/NO
L.M. Lenghel; Cluj-Napoca/RO

**Thursday, March 5, 16:00–17:30, Room MB 4**

**RC 417 Special patients’ in the emergency room: when and how to image them?**  [A-122]

Moderator:  S. Wirth; Munich/DE
A. Children  [A-122]
V. Miele; Rome/IT
B. Pregnant patients  [A-123]
H. Alkadhi; Zurich/CH
C. Elderly patients  [A-124]
K. Katulska; Poznan/PL

**Friday, March 6, 08:30–10:00, Room MB 4**

**RC 917 Acute pain: your friend and enemy in emergency radiology**  [A-365]

» Chairman’s introduction: patients with acute pain - management and therapeutic pathways
J. Walecki; Warsaw/PL
A. Head  [A-366]
P.C. Maly Sundgren; Lund/SE
B. Chest  [A-367]
J.E. Wildberger; Maastricht/NL
C. Abdomen  [A-368]
R. Basilico; Chieti/IT

» Panel discussion: Where does radiology fit in the pathway?
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Joint Sessions
Late-Breaking Clinical Trials

**Moderators:** M. Dewey; Berlin/DE
N.R. Dunnick; Ann Arbor, MI/US

- Image-based structural and functional phenotyping of the German COPD cohort (COSYCONET) using MRI and CT
  B. Jobst; Heidelberg/DE
  Discussant: J.B. Seo; Seoul/KR

- A pragmatic randomised controlled trial of the comparative effectiveness of computed tomography versus invasive coronary angiography for the management of stable chest pain patients: Methods of the multicentre DISCHARGE trial
  R. Haase; Berlin/DE
  Discussant: K. Kitagawa; Mie/JP

- Economic evaluation of gadoxetic acid-enhanced magnetic resonance imaging (Gd-EOB-DTPA-MRI) in the diagnosis of colorectal-cancer metastasis in the liver: results from the VALUE trial
  C.J. Zech; Basle/CH
  Discussant: V. Vilgrain; Clichy/FR

- Proteus trial: comparing neoplasia yield and attendance of sigmoidoscopy and CT colonography in a colorectal cancer screening setting
  D. Regge; Candiolo/IT
  Discussant: A. Laqhi; Latina/IT

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Joint Session of ESR and EFSUMB (European Federation of Societies for Ultrasound in Medicine and Biology)

**Advances in diagnostic ultrasound: better results through integration**

**Moderators:** G.H. Mostbeck; Vienna/AT
P.S. Sidhu; London/UK

- Diagnosis, characterisation and staging of tumours of the female pelvis [A-138]
  D. DeFriend; Abbotskerswell, Devon/UK
  A.G. Rockall; London/UK

- Diagnosis, characterisation and staging of renal tumours [A-139]
  S. Freeman; Plymouth/UK
  N. Grenier; Bordeaux/FR

- Diagnosis, characterisation and staging of liver tumours [A-140]
  H.-P. Weskott; Hannover/DE
  A. Ba-Ssalamah; Vienna/AT

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**EIBIR Session (European Institute for Biomedical Imaging Research)**

**The complexity of personalised breast care**

**Chairman’s introduction** [A-223]
T.H. Helbich; Vienna/AT

- Breast cancer epidemiology and control - one size does not fit all [A-224]
  I. dos Santos Silva; London/UK

- VPH-PRISM aiding the therapy decision making process by quantitative evaluation of personal imaging and non-imaging data [A-225]
  H.K. Hahn; Bremen/DE

- Stroma and peritumoural stiffness: latest evidence for its importance and novel stroma imaging approaches to predict therapy response [A-226]
  A. Evans; Dundee/UK

- Personalised treatment decisions: how to reason using multi-modal, multi-disciplinary data [A-227]
  R.M. Mann; Nijmegen/NL
Thursday, March 5, 14:00–15:30, Room M  
**EuroSafe Imaging Session 1**  
**Clinical Decision Support:** making imaging referral guidelines work for patients, doctors and hospital managers  
**LEVEL H**  
» Chairman’s introduction [A-213]  
  G. Frija, Paris/FR  
» CDS impact on guidelines development [A-214]  
  K. J. Dreyer, Boston, MA/US  
» Adapting and updating guidelines [A-215]  
  M.G.M. Hunink, Rotterdam/NL  
» ACR select implementation experience [A-216]  
  J.A. Brink, Boston, MA/US  
» ESR iGuide [A-217]  
  L. Donoso, Barcelona/ES  
» Discussion  

Thursday, March 5, 14:00–15:30, Room N  
**ESOR Session**  
**European School of Radiology**  
**Striving in radiological education**  
**LEVEL H**  
**Moderators:** L. Bonomo, Rome/IT  
N. Gourtsoyiannis, Athens/GR  
» Introduction [A-218]  
  L. Bonomo, Rome/IT  
» ESOR in action 2015 [A-219]  
  N. Gourtsoyiannis, Athens/GR  
» The role of the European Training Curriculum: present and future [A-220]  
  B. Ertl-Wagner, Munich/DE  
» Spoon-feeding: present and future [A-221]  
  P.R. Ros, Cleveland, OH/US  
» E-learning portfolios: present and future [A-222]  
  M. Maas, Amsterdam/NL  

**Awards**  
During the session, scholars and fellows will be awarded certificates for successfully completing the 2014 ESOR Scholarship and Fellowship Programmes.

Friday, March 6, 08:30–10:00, Room G  
**EFOMP Workshop**  
**European Federation of Organisations for Medical Physics**  
**EF 1 Multi-energy imaging: from physics to diagnosis I**  
**LEVEL H**  
**Moderators:** P. Sharp, Aberdeen/UK  
V. Tsapaki, Athens/GR  
» Chairman’s introduction [A-348]  
  P. Sharp, Aberdeen/UK  
» Image-based material decomposition with energy-selective detectors in multi-energy CT: a review [A-349]  
  M. Kachelrieß, Heidelberg/DE  
» Novel applications of multi-energy CT [A-350]  
  J. Sosna, Jerusalem/IL  
» New frontiers in CT: functional and multi-energy imaging [A-351]  
  A. Persson, Linköping/SE  

Friday, March 6, 08:30–10:00, Room M  
**ESOR Research in Education and Training Session**  
**Research for trainees made easy:** critical reading of the literature  
**LEVEL H**  
**Moderator:** J. Hodler, Zurich/CH  
» Introduction [A-312]  
  J. Hodler, Zurich/CH  
» Overwhelmed by the available information? How to organise yourself [A-313]  
  P. Rodríguez, Madrid/ES  
» Errors you should detect when reading scientific papers [A-314]  
  A.K. Dixon, Cambridge/UK  
» Clinical relevance of publications: influence on outcome [A-315]  
  D.J. Wilson, Oxford/UK  
» Do not be afraid of basic science papers [A-316]  
  N. Grenier, Bordeaux/FR  
» Summary [A-317]  
  J. Hodler, Zurich/CH
Joint Sessions

Friday, March 6, 13:00–15:00, Room D2
MIR @ ECR Session 1
(Management in Radiology)
MIR: Best of professional issues in radiology

Moderators: S. Morozov; Moscow/RU
E. Schouman-Claeys; Paris/FR

» 13:00 Overview on MIR activities and why attending MIR conferences [A-747]
P. Mildenberger; Mainz/DE

» 13:10 Update on radiology: a strategy for the future [A-748]
E. Denton; Norwich/UK

» 13:30 Update on imaging biobanks [A-749]
L. Faggioni; Pisa/IT

» 13:50 Update on decision support for radiology [A-750]
K.J. Dreyer; Boston, MA/US

» 14:10 Update on social media in radiology [A-751]
S. Morozov; Moscow/RU

» 14:30 Update on economics [A-752]
B. Brkljačić; Zagreb/HR

» 14:50 Discussion

Management in Radiology is a subcommittee of the ESR Professional Organisation Committee.
Those involved in the field of healthcare are experiencing a time of increasing pressure, stress and change. The demand for efficiency and effectiveness in all business and administrative matters is constantly growing. MIR addresses current challenges and provides a forum for education and the exchange of ideas and concepts.
**Scientific Programme**

**Joint Sessions**

**Friday, March 6, 14:00–15:30, Studio 2015**

**Joint Session of the ESR and ESMRMB**
(Engineering Society for Magnetic Resonance in Medicine and Biology)

**The ABC and 123 of perfusion MRI: DSC, DCE and ASL explained**

Moderators:
X. Golay; London/UK
M. Smits; Rotterdam/NL

» **Perfusion MRI: DSC, DCE and ASL** [A-402]
L. Knutsson; Lund/SE

» **Clinical applications of brain perfusion MRI** [A-403]
H.R. Jäger; London/UK

» **DCE-MRI in oncology - when is quantitative imaging essential?** [A-404]
A.R. Padhani; London/UK

» **Panel discussion**

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**Friday, March 6, 14:00–15:30, Room MB 2**

**EuroSafe Imaging Session 2**

**EuroSafe imaging call for action**

» **Chairman’s introduction** [A-408]
G. Frija; Paris/FR

» **EuroSafe imaging call for action** [A-409]
G. Frija; Paris/FR

» **EuroSafe imaging training and education activities and data collection project “Are you EuroSafe?”** [A-410]
P. Vock; Spiez/CH

» **Role of radiographers in medical radiation protection in the context of EuroSafe imaging** [A-411]
G. Paulo; Coimbra/PT

» **Role of medical physicists in medical radiation protection in the context of EuroSafe imaging** [A-412]
J. Dimakakis; Iraklion/GR

» **New European approaches to medical low-dose research** [A-413]
J. Repussard; Paris/FR

» **Panel discussion: EuroSafe Imaging - feedback, contributions, future activities, endorsement**
N. Bedlington; Vienna/AT (European Patients Forum)
N. Denjoy; Brussels/BE (COCIR)
G. Simeonov; Luxembourg/LU (European Commission)
M. Perez; Geneva/CH (WHO)
D. Holmberg; Vienna/AT (IAEA)

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**Friday, March 6, 14:00–15:30, Room L 1**

**EIBIR Session**
(Engineering Institute for Biomedical Imaging Research)

**MITIGATE consortium: state of the art imaging and therapy in GIST**

Chairpersons:
S.O. Schönberg; Mannheim/DE
I. Virgolini; Innsbruck/AT

» **Selective internal radiotherapy in GIST patients** [A-405]
S. Diehl; Mannheim/DE

» **Multimodal imaging in GIST** [A-406]
D.L. Longo; Turin/IT

» **Principle of X-Nuclei MR imaging; what the radiologist should know** [A-407]
L. Schad; Mannheim/DE

= Interactive session with electronic voting/self assessment
Joint Sessions

6 March  
Friday, March 6, 15:30–17:30, Room D2
MIR @ ECR Session 2
(Management in Radiology)
Improving quality and safety in radiology
Moderators: J.A. Brink, Boston, MA/US
R. FitzGerald, Shifnal/UK
» 15:30  First experiences from a nation-wide peer review in radiology  [A-753]
A. Brady, Cork/IE
» 15:50  How to organise meaningful audits in radiology  [A-754]
P. Cavanagh, Taunton/UK
» 16:10  Errors in radiology: how to learn from a systematic approach  [A-755]
D.A. Koff, Hamilton, ON/CA
» 16:30  Round table discussion: Learning from critical situations or errors: examples from around the world  [A-756]
E. Denton, Norwich/UK
J.A. Jakobsen, Oslo/NO
U. Send, Antalya/TR
J.A. Brink, Boston, MA/US
C.E. Kahn, Philadelphia, PA/US
M. Fatehi, Tehran/IR
P. Valdes Solis, Marbella/ES

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7 March  
Saturday, March 7, 08:30–10:00, Room Z
Joint Session of the ESR and EORTC
(European Organisation for Research and Treatment of Cancer)
Imaging in multicentre clinical oncological trials
Moderators: L.S. Fournier, Paris/FR
Y. Liu, Brussels/BE
» Imaging in clinical trials: the EORTC perspective  [A-493]
Y. Liu, Brussels/BE
» Standardisation and quality assessment of imaging as surrogate endpoints  [A-494]
N.M. deSouza, Sutton/UK
» Optimised imaging for trials in brain tumours  [A-495]
M. Smits, Rotterdam/NL
» Multiparametric MRI in breast and prostate cancer  [A-496]
T.H. Helbich, Vienna/AT

7 March  
Saturday, March 7, 10:30–12:00, Room L 1
ESR Patient Advisory Group
ESR-PAG 1 The challenges of providing true patient-centred care: moving forward together
Moderators: N. Bedlington, Vienna/AT
P. Cavanagh, Taunton/UK
» Chairmen’s introduction  [A-552]
N. Bedlington, Vienna/AT
P. Cavanagh, Taunton/UK
» Ethics in patient-centred radiology  [A-553]
C.D. Claussen, Tübingen/DE
» Lost in radiology: is there a doctor in the department?  [A-554]
E. Briers, Hasselt/BE
» An ESR framework for delivering patient-centred care in radiology’s services  [A-555]
P. Cavanagh, Taunton/UK
» Panel discussion: on the ‘driver diagram for patient-centred care in clinical radiology’
Scientific Programme

Joint Sessions

Saturday, March 7, 14:00–15:30, Room L 1

EuroSafe Imaging Session 3

Dose-tracking leads the way to dose-reduction

» Chairman’s introduction: dose-tracking leads to dose-reduction: why radiologists MUST get involved  [A-580]
  P.M. Parizel; Antwerp/BE

» The legislative environment in Europe: the new EU Directive and the goals of EuroSafe Imaging  [A-581]
  J. Griebel; Neuherberg/DE

» Implementing a dose management solution in your department: where to start and what to expect?  [A-582]
  D. Weishaupt; Zurich/CH

» Developing a multi-disciplinary team in dose management (CT example)  [A-583]
  L. Martí-Bonmatí; Valencia/ES

» Deploying a dose management strategy across multiple sites  [A-585]
  K. Katsari; Athens/GR

» Panel discussion

Saturday, March 7, 16:00–17:30, Room L 1

EuroSafe Imaging Session 4

How can clinical audit enhance patient safety?

» Chairman’s introduction  [A-638]
  E.J. Adam; London/UK

» A new approach to clinical audit and safety by the ESR  [A-639]
  P. Cavanagh; Taunton/UK

» Models of external audit in the Netherlands  [A-640]
  S. Harden; Southampton/UK

» Clinical audit in cardiac CT: the UK experience  [A-641]
  A.R. Larici; Rome/IT

» The European Radiation Protection Regulator’s perspective on audit  [A-642]
  S. Ebdon-Jackson; Didcot/UK

» Panel discussion

Saturday, March 7, 13:00–14:00, Room A

Junior Image Interpretation Quiz (JIIQ)

Battle for the audience

Moderator: M. Dewey, Berlin/DE

» Team A:
  A. Ntorkou; Thesprotia/GR
  A. Canic; Split/HR
  P. Flechsig; Heidelberg/DE
  N. Cardobi; Verona/IT

» Team B:
  M. Faure; Antwerp/BE
  D. Uceda Navarro; Valencia/ES
  E. Herin; Paris/FR
  A. Chopra; Sheffield/UK

Saturday, March 7, 14:00–15:30, Room Z

Joint Session of the ESR and ESTRO

(ESTRO 1 Non-surgical approach to early lung cancer: perspectives of imaging and radiation-based disciplines)

Moderators: T. Franquet, Barcelona/ES
          Y. Lievens, Ghent/BE

» Imaging requirements to guide non-surgical treatment in early lung cancer  [A-568]
  C.M. Schaefer-Prokop; Amersfoort/NL

» The most up-to-date evidence from the interventional oncology perspective  [A-569]
  R. Lencioni; Pisa/IT

» The most up-to-date evidence from the radiation oncology perspective  [A-570]
  S. Senan; Amsterdam/NL

» Imaging follow-up of non-surgical treatments  [A-571]
  A.R. Lancia; Rome/IT

» Discussion

= Interactive session with electronic voting/self assessment
Scientific Programme

Joint Sessions

Saturday, March 7, 16:00–17:30, Room Z
Joint Session of the ESR and ESTRO
(European Society for Radiotherapy and Oncology)
ESTRO 2  Radiology and radiation oncology: new chances for a partnership

Moderator: L. Bonomo; Rome/IT
P.M.P. Poortmans; Nijmegen/NL

» Introduction [A-623]
L. Bonomo; Rome/IT

» Imaging in oncology: achievements and limitations [A-624]
V.J. Goh; London/UK

» Interventional radiology in oncology: achievements and limitations [A-625]
J.I. Bilbao; Pamplona/ES

» Interventional radiology and radiation oncology: working together [A-626]
D. Verellen; Brussels/BE

» Panel discussion: The future partnership between radiology and radiation oncology

Sunday, March 8, 08:30–10:00, Room Z
EDiR talk
(European Diploma in Radiology)
FA(b)Q frequently asked (burning) questions - with answers
The participants will learn about the EDiR structure and become familiar with its format. They will learn very useful information about their EDiR examination and its preparation and will receive an answer to all questions they may have related to the exam.

Moderator: Y. Menu; Paris/FR

» Questions about registration [A-679]
Y. Menu; Paris/FR
E. Jordan; Barcelona/ES

» Questions about preparation [A-680]
W. Schima; Vienna/AT

» Questions about written examination [A-681]
S. Barter; Cambridge/UK

» Questions about oral examination [A-682]
L. McKnight; Langland, Swansea/UK

» Questions about the future [A-683]
Y. Menu; Paris/FR
V. Iranzo; Barcelona/ES

» Panel discussion: More FA(b)Q and its answers [A-684]
J. Vilar; Valencia/ES

Sunday, March 8, 08:30–10:00, Studio 2015
Joint Session of the ESR and ERS
(European Respiratory Society)
Lung cancer screening: why and how to implement a comprehensive preventive programme

Moderator: M. Prokop; Nijmegen/NL
J.-P. Sculier; Brussels/BE

» Should we do lung cancer screening now? The evidence [A-688]
C.J. Herold; Vienna/AT

» CT requirements and nodule workup [A-689]
F. Gleeson; Oxford/UK

» Diagnostic and treatment approaches to lesions found in CT screening [A-690]
F.J.F. Herth; Heidelberg/DE

» Designing a screening programme [A-691]
N. Peled; Petach Tiqwa/IL

Sunday, March 8, 10:30–12:00, Room L 1
ESR Patient Advisory Group
ESR-PAG 2 Communicating the results of radiological studies to patients: from high-tech to human touch imaging

» Chairmen’s introduction [A-737]
N. Bedlington; Vienna/AT
B. Briklaćić; Zagreb/HR

» Who is the patient of the radiologist? [A-738]
L.E. Derchi; Genoa/IT

» Communicating results of radiological studies to the patient with breast cancer: view of the patient who is also a physician [A-739]
A. Balenović; Zagreb/HR

» Brain disorder - the communication challenge [A-740]
D. Waish; Dublin/IE
M. Messmer-Wullen; Lochau/AT

» Panel discussion: From high-tech to human touch - how do we ensure this transition and what are the roles for the ESR and member societies?
Postgraduate Educational Programme

Session numbers are prefixed by
CC, E³, EF, EM, HL, MC, MS, NH, OL, PC, RC, SA, SF, TF

Presentation numbers are prefixed by the letter A

Key to Abbreviations
- CC: Categorical Course
- E³: European Excellence in Education
- EF: EFOMP Workshop
- EM: ESR meets Session
- HL: Honorary Lecture
- MC: Mini Course
- MS: Multidisciplinary Session
- NH: New Horizons Session
- OL: Opening Lecture
- PC: Professional Challenges Session
- RC: Refresher Course
- SA: State of the Art Symposium
- SF: Special Focus Session
- TF: Radiology Trainees Forum
E³ - ECR Academies: Image-Guided Interventions in Oncology

E³ 121 Changes of the gastrointestinal tract after treatment

08:30

A-001 A. Gastrointestinal tumours
M. Rengo; Latina/IT

Learning Objectives:
1. To become familiar with common findings after medical treatment of gastrointestinal tumours.
2. To become familiar with changes after radiotherapy for gastrointestinal tumours.
3. To understand the changes which occur after surgery for gastrointestinal tumours.

09:15

A-002 B. Non-tumoural intestinal diseases
J. Rimola; Barcelona/ES

Learning Objectives:
1. To become familiar with useful signs after medical treatment of Crohn's disease.
2. To understand the changes which occur after recurrence in Crohn's disease.
3. To understand the alterations which occur after treatment of infectious intestinal processes.

08:30–10:00 Room B

Abdominal Viscera

RC 101 Pitfalls in interpretation in pancreatic imaging

08:30

A-003 Chairman’s introduction
R. Pozzi-Mucelli; Verona/IT

08:35

A-004 A. Pancreatic cancer or pancreatitis
R. Manfredi; Verona/IT

Learning Objectives:
1. To learn about the inflammatory lesions which can mimic a pancreatic tumour.
2. To become familiar with the imaging features which can support the differential diagnosis between pancreatic cancer and pancreatitis.
3. To understand the value of the integration of the imaging modalities that define the correct diagnosis.

08:58

A-005 B. Cystic tumours vs pseudocysts
M.A. Bali; Brussels/BE

Learning Objectives:
1. To become familiar with the imaging features of cystic tumours and pseudocysts.
2. To become familiar with the clinical presentation and the radiological signs that may be observed in cystic tumours and pseudocysts.
3. To understand the value of the integration of the imaging modalities that define the correct diagnosis.

09:21

A-006 C. Incidental findings
C. Stoupis; Maennedorf/CH

Learning Objectives:
1. To become familiar with the most common incidental findings in the pancreas with different imaging modalities.
2. To understand how to define the correct diagnosis.
3. To discuss how to manage incidental findings.

08:30–10:00 Room C

Special Focus Session

SF 1a Acute gastrointestinal tract emergencies: an update

08:30

A-007 Chairman’s introduction
F. Caseiro-Alves; Coimbra/PT

Session Objectives:
1. To understand the advantages and shortcomings of the different imaging techniques.
2. To understand how imaging techniques drive patient management.
3. To appreciate the role of interventional radiology.

08:52

A-008 The acute abdomen: inflammation and its mimics
M. Zins; Paris/FR

Learning Objectives:
1. To describe and propose an effective diagnostic imaging strategy for the assessment of acute abdominal pain.
2. To describe typical and atypical findings of appendicitis, colonic diverticulitis and cholecystitis from different imaging modalities.
3. To discuss alternative diagnoses in right and left lower abdominal pain including epiploic appendagitis, infarction of the greater omentum and inflammatory bowel disease.

09:10

A-010 Evaluation of the ischaemic bowel
S. Romano; Naples/IT

Learning Objectives:
1. To learn about pathophysiology of the vascular diseases of the bowel.
2. To understand radiological signs of bowel ischaemia and infarction.
3. To appreciate the role of cross-sectional imaging in emergencies for an effective diagnosis.
4. To describe the different stages of vascular bowel injury.

09:28

A-011 The acute GI bleed
O.M. van Delden; Amsterdam/NL

Learning Objectives:
1. To learn about the pathophysiology and different types of common of acute GI haemorrhage.
2. To learn about the diagnostic work-up of and imaging algorithms for investigating acute GI hemorrhage.
3. To learn about the role of interventional radiology for acute GI haemorrhage including results and complications of interventional procedures.

Panel discussion:
How should acute GI tract emergencies be managed?
08:30–10:00  Room M

Physics in Radiology

**RC 113**  Cone-beam CT
Moderator: J. Vassileva, Sofia/BG

08:30
A-012  A. Fundamentals of cone-beam CT
J. Kuntz; Heidelberg/DE

**Learning Objectives:**
1. To understand the principles of volumetric image formation with flat detectors.
2. To understand the difference between cone-beam CT (CBCT) and multi-slice CT (MSCT).
3. To learn about reconstruction techniques and image processing.
4. To become acquainted with the important image quality parameters.

09:00
A-013  B. Medical applications of cone-beam CT
M. Grass; Hamburg/DE

**Learning Objectives:**
1. To become acquainted with the applications of cone-beam CT.
2. To learn about systems’ designs and parameters.
3. To understand image quality characteristics.
4. To learn how to use cone-beam images in image-guided interventions.

08:30–10:00  Room N

Computer Applications

**RC 105**  Mobile IT in radiology

08:30
A-015  Chairman’s introduction
E. Neri; Pisa/IT

**Session Objectives:**
1. To appreciate the current state of tablet technology and its practical use in radiology.
2. To understand the pros and cons of the use of tablets.
3. To learn about specific critical areas of utilisation (DICOM images reading and teleradiology).

08:35
A-016  A. Tablet-computers: a technical overview
J. Fernandez-Bayó; Sabadell/ES

**Learning Objectives:**
1. To learn about the PC evolution: from desktops, to laptops and tablets.
2. To appreciate the versatile features of a tablet.
3. To understand the hardware features for display and networking.

08:58
A-017  B. Reading DICOM images on the tablet
O. Ratib; Geneva/CH

**Learning Objectives:**
1. To learn which DICOM readers are available for tablets.
2. To appreciate the local and remote approaches and the PACS/tablet integration.
3. To understand the pros and cons of image quality and display.

09:21
A-018  C. Mobile teleradiology: radiological features of the tablet-computer
E.R. Ranschaert; 's-Hertogenbosch/NL

**Learning Objectives:**
1. To learn about mobile teleradiology within the hospital.
2. To learn about mobile teleradiology outside the hospital.
3. To appreciate the potential risks: data security, confidentiality.

Panel discussion:

09:44
Confidence in the use of tablets in our clinical practice

08:30–10:00  Room E1

Special Focus Session

**SF 1b**  Up-to-date imaging for hearing loss

08:30
A-019  Chairman’s introduction
A. Trojanowska; Lublin/PL

**Session Objectives:**
1. To understand the problem of conductive and sensorineural hearing loss and the role of radiologist in treatment planning.
2. To discuss commonly used devices for hearing augmentation and restoration and their radiological appearance.
3. To know how to evaluate images in cases of treatment failure.

08:35
A-020  New devices in the treatment of hearing loss
B. Ozgen Mocan; Ankara/TR

**Learning Objectives:**
1. To understand the mechanism of hearing loss.
2. To become familiar with treatment options.
3. To review most the most popular devices for hearing augmentation and restoration.

09:00
A-021  Pre- and postoperative imaging in middle ear implants
E. Loney; Bradford/UK

**Learning Objectives:**
1. To learn how to image temporal bone prior to surgery and implant placement.
2. To review the most popular types of surgical procedures in the middle ear.
3. To apprehend the typical appearance of reconstructed ossicular chain and possible complications.

09:25
A-022  Pre- and postoperative imaging in inner ear and brainstem implants
B. Verbist, J.H.M. Frijns; Leiden/NL

**Learning Objectives:**
1. To know how to evaluate temporal bone in order to qualify for implant placement.
2. To understand how cochlear and brainstem implants work.
3. To discuss possible complications and the role of imaging studies.

Panel discussion:

09:50
Changing demands for imaging in hearing loss
SF 1c  Internal derangement of joints: choosing the right test for the problem

08:30  A-023  Chairman’s introduction
A.J. Grainger; Leeds/UK

Session Objectives:
1. To become familiar with the imaging techniques commonly used for internal derangements of joints.
2. To understand how the role of these techniques has changed as technology improves.
3. To appreciate the advantages and disadvantages of the techniques discussed, appreciating their strengths and weaknesses.
4. To be aware of the potential for further optimisation of the techniques in the future.

08:35  A-024  CT arthrography: acceptable if MR availability is limited?
B. Vande Berg; Brussels/BE

Learning Objectives:
1. To appreciate the current indications for CT arthrography and how they may evolve.
2. To understand the technique and requirements for CT arthrography.
3. To become familiar with the limitations of CT arthrography.
4. To recognise how CT arthrography complements other techniques.

09:00  A-025  MR arthrography: exquisite soft tissue contrast
E.L. Rowbotham; Leeds/UK

Learning Objectives:
1. To appreciate the current indications for MR arthrography and how they may evolve.
2. To understand the technique and requirements for MR arthrography.
3. To become familiar with the limitations of MR arthrography and appreciate its pitfalls.

09:25  A-026  MRI: when is it enough?
C.W.A. Pfirrmann; Zurich/CH

Learning Objectives:
1. To understand the limitations of non-arthrographic MRI.
2. To appreciate how MRI can be optimised to minimise the need for invasive arthrographic techniques.
3. To recognise where MRI is enough and where arthrographic techniques are still needed.

Panel discussion:
09:44  Can one technique ever fulfil all the roles?
How will our optimal techniques change in the next 5 years?

08:30–10:00  Room E2

08:35  A-028  A. The current criteria for nodal involvement on CT/MRI
W. Schima; Vienna/AT

Learning Objectives:
1. To understand the role of local nodal staging and its importance for management and prognosis.
2. To become familiar with the current imaging criteria for assessment of nodal metastases.
3. To understand the diagnostic performance of cross-sectional imaging.

08:58  A-029  B. MRI techniques: what do they contribute?
H.C. Thoeny; Berne/CH

Learning Objectives:
1. To understand the principle of DWI of nodes.
2. To learn about the appearances of malignant nodes on Diffusion-weighted MRI.
3. To be familiar with node-specific enhanced MRI.

Panel discussion:
09:21  When and how will imaging make diagnostic biopsy unnecessary?

08:30–10:00  Room F1

Oncologic Imaging
RC 116  How about the lymph nodes?

08:30  A-027  Chairman’s introduction
J.J. Fütterer; Müngegen/NL

Session Objectives:
1. To learn the criteria for nodal staging on CT, MRI and PET.
2. To understand the pitfalls and challenges of nodal staging on imaging.
08:30–10:00 Room D1

**Chest**

**RC 104**  **Pulmonary vasculitis and collagen vascular diseases**

*Moderator: A. Persson, Linköping/SE*

A-034 A. Pulmonary manifestations of collagen vascular diseases

*S. R. Desai; London/UK*

**Learning Objectives:**
1. To learn about the different collagen vascular diseases that affect the lung.
2. To become familiar with pulmonary abnormalities due to collagen vascular diseases.

08:52

A-035 B. Large-vessel vasculitis

*J. Vilar; Valencia/ES*

**Learning Objectives:**
1. To learn about the different types of large-vessel vasculitis.
2. To become familiar with histopathological correlates in vasculitis.
3. To appreciate the different manifestations and imaging appearances of large-vessel thoracic vasculitis.

09:15

A-036 C. HRCT patterns in pulmonary vasculitis

*C. M. Schaefer-Prokop; Amersfoort/NL*

**Learning Objectives:**
1. To learn when HRCT is of value in investigating pulmonary vasculitis.
2. To appreciate the different appearances of pulmonary vasculitis on HRCT.

09:37

A-037 D. Inflammation and remodelling

*A. A. Bankier; Boston, MA/US*

**Learning Objectives:**
1. To learn about the different causes of pulmonary inflammation.
2. To understand how the lung responds to inflammation.
3. To become familiar with pulmonary changes following inflammation.

08:30–10:00 Room D2

**Head and Neck**

**RC 108**  **Head and neck emergency: for the general radiologist or the patient?**

*Moderator: M. Díez Blanco, Santander/ES*

A-038 A. Findings that can’t wait for follow-up

*M. G. Mack; Munich/DE*

**Learning Objectives:**
1. To learn about vascular head and neck emergencies.
2. To understand the variable appearances of foreign bodies.
3. To understand how the lung responds to inflammation.

09:00

A-039 B. Imaging infection: when, how and why?

*M. Becker; Geneva/CH*

**Learning Objectives:**
1. To learn how to choose and tailor imaging techniques according to the clinical presentation.
2. To become familiar with neck spaces and spread of infection.

09:30

A-040 C. Where medical history and previous images help to rule out tumour

*D. Farina; Brescia/IT*

**Learning Objectives:**
1. To understand the importance of medical history and previous images.
2. To become familiar with typical post-surgical and post-radiation imaging findings.
3. To learn about less common anatomical variants without clinical consequence.

08:30–10:00 Room G

**Genitourinary**

**RC 107**  **Stone disease: new concepts**

A-041 A. Chairman’s introduction

*A. Magnusson; Uppsala/SE*

**Session Objectives:**
1. To become familiar with accurate imaging modalities in patients with flank pain or already known stone disease.
2. To learn about therapeutic algorithm of stone disease.

08:35

A-042 A. From the Stone Age to the New Age

*N. C. Cowan; Portsmouth/UK*

**Learning Objectives:**
1. To become familiar with the symptoms, signs, risk factors and significance of stone disease in the urinary tract.
2. To understand the strengths and weaknesses of Stone Age to New Age imaging techniques for stone disease.
3. To become familiar with a state-of-the-art diagnostic imaging pathway for urinary tract stone disease.

08:58

A-043 B. The contribution of imaging in planning urinary stone therapy

*U. Patel; London/UK*

**Learning Objectives:**
1. To understand how stone morphology, constituency and intrarenal anatomy influence treatment of urinary tract stones.
2. To learn about how to carry out 3. CT reconstruction of the renal collecting system, and understand key technical factors necessary for recreating accurate anatomical or surgical maps.
3. To understand what information the interventionist or urologist needs for planning urinary stone therapy.

09:21

A-044 C. Urolithiasis: changing concepts in medical and surgical approach

*G. Krapf; Vienna/AT*

**Learning Objectives:**
1. To learn about new findings in epidemiology and pathogenesis of urinary stone disease.
2. To become familiar with the usefulness of screening concepts.
3. To learn about the role of medical and new minimally invasive treatment options.
4. To learn about post-treatment imaging algorithms.

09:44

*How do density and/or volume of the stone in failure dictate how to efficiently treat stone disease?*
Neuro

RC 111 The paediatric brain and spine: not only tumours
Moderator: T.A.G.M. Huisman; Baltimore, MD/US

08:30
A-045  A. Congenital abnormalities of the brain
B. Ertl-Wagner; Munich/DE
Learning Objectives:
1. To become familiar with the typical clinical presentations of CBA.
2. To consolidate knowledge of the typical imaging patterns of the major CBA.
3. To explain the importance of a precise diagnosis in relation to potential therapy.

09:00
A-046  B. Paediatric brain neuro emergencies
M.I. Argyropoulou; Ioannina/GR
Learning Objectives:
1. To become familiar with the most common PNEs.
2. To learn how to make a differential diagnosis between different PNEs.
3. To explain the diagnostic and therapeutic road map in PNEs.

09:30
A-047  C. The paediatric spine: tips and tricks
A. Rossi; Genoa/IT
Learning Objectives:
1. To learn the difference between benign and malignant paediatric spine findings.
2. To understand the imaging strategy for paediatric spine emergencies.
3. To become confident with the most common paediatric spine emergencies.

Molecular Imaging

RC 106 Functional and multimodality neuroimaging
Moderator: T.H. Helbich; Vienna/AT

08:30
A-049  A. MR/PET chances and challenges
V. Schulz; Aachen/DE
Learning Objectives:
1. To understand the fundamentals of MR physics relevant to MR/PET imaging.
2. To appreciate the advantages of MR/PET and its complementary role in diagnostic neuroimaging.
3. To learn about the benefits and challenges of combined MR/PET.

09:00
A-050  B. Advanced MR neuroimaging techniques
M. Smits; Rotterdam/NL
Learning Objectives:
1. To learn about functional MRI (fMRI) and diffusion tensor imaging (DTI).
2. To understand the application of these techniques in the study of the healthy and diseased human brain.
3. To learn about the brain’s activity and its connections.

09:30
A-048  C. Clinical applications of PET/CT in neurology
A.H. Jacobs; Münster/DE
Learning Objectives:
1. To become familiar with the role of PET/CT in neurology.
2. To learn about radiotracers that can be used in neuroimaging.
3. To understand PET/CT applications in relationship to disease presentations.

Cardiac

RC 103 Hybrid cardiovascular imaging: where should we go?
Moderator: G. Feuchtner; Innsbruck/AT

08:30
A-051  A. PET/CT: present state and future prospects
S.G. Nekolla; Munich/DE
Learning Objectives:
1. To become aware of the present state of PET/CT in cardiovascular imaging.
2. To become familiar with appropriate indications for PET/CT studies of the heart.
3. To learn about technical innovations in PET/CT imaging.

09:00
A-052  B. SPECT/CT: is it just PET/CT’s little brother?
M. Hacker; Vienna/AT
Learning Objectives:
1. To appreciate the scope of information a SPECT/CT cardiac study can deliver.
2. To become familiar with protocols of SPECT/CT studies.
3. To learn a structured approach to performing and reporting a SPECT/CT study.

09:30
A-053  C. MR/PET: do we really need it?
H.H. Quick; Essen/DE
Learning Objectives:
1. To learn about technical requirements for performing cardiac MR/PET studies.
2. To learn if cardiac MR/PET can be successfully performed in clinical routine.
3. To become familiar with the principal advantages/disadvantages of MR/PET compared to other hybrid imaging technologies.

Interventional Radiology

RC 109 Image fusion for image-guided interventions

08:30
A-054  Chairman’s introduction
V. Bérczi; Budapest/HU

08:35
A-055  A. Cone-beam CT in vascular and non-vascular interventional procedures
T.F. Jakobs; Munich/DE
Learning Objectives:
1. To learn how to use cone-beam CT in guiding IR procedures.
2. To learn when to use this technique in oncologic biopsies and ablations.
3. To learn how to use this technique in improving efficacy and safety of intra-arterial procedures.

08:58
A-056  B. US image fusion
C. Ewertsen; Copenhagen/DK
Learning Objectives:
1. To learn about the technologies used to fuse CT/US and MRI/US images.
2. To learn how to use them in clinical practice.
3. To understand the indications for these technologies in difficult cases.
08:30–10.00 Room MB 5

Paediatric

RC 112 Autoimmune disorders in children
Moderator: V. Donoghue, Dublin/IE

08:30 A-062 A. The joints in juvenile idiopathic arthritis
L. S. Andrinou, Athens/GR

Learning Objectives:
1. To learn about the different joint lesions in JIA.
2. To understand when to use US or MRI.
3. To learn how to recognise the typical imaging patterns.

08:30 A-063 B. The digestive tract
E. Alexopoulou, Athens/GR

Learning Objectives:
1. To learn about autoimmune enteritis.
2. To appreciate the role of US, CT and MRI.
3. To become familiar with imaging findings useful in the diagnosis.

10:30–12:00 Room A

E³ - ECR Academies:
Interactive Teaching Sessions

E³ 221 The treated breast: what you need to know

10:30 A-065 A. Imaging after treatment of benign breast conditions
J. Camps Herrero, Valencia/ES

Learning Objectives:
1. To understand common features related to breast surgery.
2. To recognise changes related to non-surgical treatments.

10:30 A-066 B. Imaging after treatment of breast cancer
M.H. Fuchsjäger, Graz/AT

Learning Objectives:
1. To understand common features related to breast surgery.
2. To recognise changes related to non-surgical treatments.

12:30–13:30 Room B

E³ - The Beauty of Basic Knowledge:
Breast Imaging

E³ 25A Breast ultrasound: a primer
Moderator: J. Camps Herrero, Alzira/ES

12:30 A-067 Breast ultrasound: a primer
A. Tardivon, Paris/FR

Learning Objectives:
1. To review the technical issues tied to a state-of-the-art US exam and new developments.
2. To learn how to deal with the most common clinical situations where breast US is involved.
3. To know the basic semiology of US lesions.
### Postgraduate Educational Programme

**E³ - The Beauty of Basic Knowledge: Skeletal Radiology**

**E³ 24A  Plain radiographs: analysis and interpretation**

Moderator: V. Cassar-Pullicino; Oswestry/UK

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| 12:30  | A-068 Plain radiographs: analysis and interpretation                   | I.W. McCall; Devon/UK  
Learning Objectives:  
1. To learn about the current role of plain radiographs.  
2. To appreciate the strengths and weaknesses of plain radiographs in musculoskeletal disease.  
3. To understand methods for analysing radiographic abnormalities and an approach to their correct interpretation. |

### GI Tract

**RC 401  Misses and difficulties in abdominal imaging**

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| 16:00  | A-069 Chairman’s introduction                                       | J. Stoker; Amsterdam/NL  
Session Objective:  
1. To briefly present how imaging diagnosis can be challenging in patients with peritoneal or mesenteric masses, occult GI bleeding or bowel dilatation. |
| 16:05  | A-070 A. Mesentery and peritoneum                                    | D. Akata; Ankara/TR  
Learning Objectives:  
1. To learn about the imaging characteristics of peritoneal and mesenteric masses and their differentials.  
2. To appreciate the great potential, as well as the limitations, of imaging techniques in the detection of such lesions.  
3. To understand the common pitfalls in diagnosis. |
| 16:28  | A-071 B. Occult GI bleeding                                          | A. Filippone; Chieti/IT  
Learning Objectives:  
1. To understand the causes of GI bleeding and underlying pathophysiology.  
2. To appreciate the strengths and limitations of the imaging techniques used in diagnosis.  
3. To learn about common pitfalls in diagnosis. |
| 16:51  | A-072 C. Bowel dilatation                                            | E. Danse; Brussels/BE  
Learning Objectives:  
1. To become familiar with the normal appearances of the bowel and the physiological causes of bowel dilatation.  
2. To learn about the different imaging techniques to diagnose bowel dilatation and their limitations.  
3. To understand common pitfalls in diagnosis. |

### Professional Challenges Session

**PC 4b  What are the concrete benefits of structured reporting?**

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| 16:00  | A-077 Chairman’s introduction                                       | L. Dondog; Barcelona/ES  
Session Objectives:  
1. To learn about the importance of structured reporting (SR) in daily practice.  
2. To understand its role in the radiologist workflow.  
3. To appreciate its benefit as a communication tool. |
| 16:05  | A-078 For the radiologist                                           | P. Mildenhagen; Mainz/DE  
Learning Objectives:  
1. To explore the impact on reporting workflow.  
2. To learn about the value for follow-up studies.  
3. To understand how to develop one's own templates. |
16:23  A-079 For the referring physician
J.M.L. Bosmans; Ghent/BE
Learning Objectives:
1. To understand the needs of referring clinicians concerning content and presentation of imaging results.
2. To become familiar with existing initiatives to meet referring clinicians' requirements.
3. To learn about clinicians' evaluations of SR in real life.

16:41  A-080 For the patient
C.E. Kahn; Philadelphia, PA/US
Learning Objectives:
1. To explore the impact of SR on patient care.
2. To learn about its role in supporting quality improvement and patient safety.
3. To describe how it enables clinical and translational research.

16:59  A-081 The ESR/RSNA structured reporting initiative
O. Ratib; Geneva/CH
Learning Objectives:
1. To understand the concept of SR using the MRRT IHE standard.
2. To review the current status of the ESR/RSNA joint initiative.
3. To learn about the ESR/RSNA technical setup and how to participate in and benefit from it.
4. To learn about new trends in multilingual syntax management and translation.

Panel discussion:
What are the concrete benefits of structured reporting?

17:17  A-084 C. Treated brain tumours: progression or pseudoprogression?
P.C. Maly Sundgren; Lund/SE
Learning Objectives:
1. To understand the challenges and limitations of routine MRI in monitoring brain tumour treatment.
2. To become familiar with the role of advanced imaging biomarkers for early assessment of treatment response.
3. To learn how to integrate routine and advance MRI into clinical practice after tumour therapy.

16:00–17:30 Room E1
Musculoskeletal
RC 410 Trauma to the paediatric skeleton
Moderator: K. Rosendahl, Bergen/NO

16:00  A-085 A. Pelvis/hips
N. Boutry, E. Amzallag-Bellenjoey, Lille/FR
Learning Objectives:
1. To become familiar with the types of injuries seen in the paediatric pelvis/hips.
2. To understand the strengths and weaknesses of different imaging modalities.

16:30  A-086 B. Elbow
K.J. Johnson; Birmingham/UK
Learning Objectives:
1. To become familiar with the types of injuries seen in the paediatric elbow.
2. To understand the strengths and weaknesses of different imaging modalities.

17:00  A-087 C. Spine
L.B.O. Jans; Ghent/BE
Learning Objectives:
1. To become familiar with the types of injuries seen in the paediatric spine.
2. To understand the strengths and weaknesses of different imaging modalities.

16:00–17:30 Room E2
Professional Challenges Session
PC 4a Radiologist: imager or doctor?

16:00  A-088 Chairman's introduction
J.A. Reekers; Amsterdam/NL
Session Objectives:
1. To learn how radiology can become future-proof.
2. To understand how radiology can be more visible in the hospital.
3. To learn how teleradiology might threaten radiology.

16:05  A-089 Which type of radiologist is future proof?
N.H. Strickland; London/UK
Learning Objectives:
1. To understand that radiology is changing.
2. To learn about these changes.
3. To discuss possible the solutions.

16:00–17:30 Room N
Neuro
RC 411 Imaging findings in treated brain tumours
Moderator: B.F. Schuknecht, Zurich/CH

16:00  A-082 A. How to perform imaging in the postoperative patient: imaging protocols, normal and abnormal findings after surgery
M.A. Lucic; Sremska Kamenica/RS
Learning Objectives:
1. To show the diagnostic protocol in post-operative brain tumours.
2. To learn how to differentiate between tumoural and non-tumoural disease using different sequence.
3. To consolidate knowledge on how to combine different acquisitions.

16:30  A-083 B. Understanding radiation- and chemotherapy-induced changes after treatment of brain tumours
Y. Ozsunar; Aydin/TR
Learning Objectives:
1. To understand why perfusion imaging is routinely needed for post-operative brain tumours evaluation.
2. To become familiar with principles, applications, and pitfalls of various perfusion imaging techniques.
3. To consolidate knowledge of MR imaging to understand post-therapy changes.
A-090  Is subspecialisation the answer?
J.A. Reekers; Amsterdam/NL
Learning Objectives:
1. To understand the potential outcomes of subspecialisation.
2. To learn how subspecialisation can be of added value.
3. To appreciate that advantages of subspecialisation also come with risks.

A-091  Is teleradiology a threat to radiology?
A. Palkó; Szeged/HU
Learning Objectives:
1. To understand what teleradiology really is.
2. To learn how teleradiology might replace hospital radiology.
3. To appreciate the risks and benefits of teleradiology.

A-092  Radiology training for the future
B. Ertl-Wagner; Munich/DE
Learning Objectives:
1. To understand what the ESR training curriculum is.
2. To learn how this curriculum can be used for training radiologists in Europe.
3. To appreciate the value of uniform training and diploma accreditation.

Panel discussion:
17:17  How do radiologists stay relevant and what is the role of the ESR?

16:00–17:30 Room D1

Chest

RC 404  HRCT - patterns in chest radiology: back to basics and beyond

A-097 Chairman’s introduction
H Prosch; Vienna/AT
Session Objectives:
1. To emphasise the importance of anatomy in reading HRCT.
2. To appreciate the need for defining patterns to improve radiological HRCT diagnoses.

A-098  A. Secondary pulmonary lobule anatomy: essential to tackle with the nodular pattern
T Frauenfelder; Zürich/CH
Learning Objectives:
1. To become confident in recognising the anatomical compartments of the lung on HRCT.
2. To describe typical nodular imaging patterns of lung disease on HRCT using appropriate terminology.

A-100  C. GGO opacities and consolidation
I.E. Tyurin; Moscow/RU
Learning Objectives:
1. To appreciate the different conditions which cause GGO pattern and consolidation.
2. To learn how to interpret GGO and consolidation in different clinical settings.

Panel discussion:
17:14  Is it always easy to detect a pattern?
Tips for success

16:00–17:30 Room D2

Head and Neck

RC 408  The orbit: you can't see what you haven't learnt
Moderator: Ü.Y. Ayaz; Mersin/TR

A-100  C. GGO opacities and consolidation
I.E. Tyurin; Moscow/RU
Learning Objectives:
1. To appreciate the different conditions which cause GGO pattern and consolidation.
2. To learn how to interpret GGO and consolidation in different clinical settings.

Panel discussion:
17:14  Is it always easy to detect a pattern?
Tips for success

16:00–17:30 Room D2
16:30
A-102  B. Congenital and inflammatory disease
T.A. Ferreira; Leiden/NL
Learning Objectives:
1. To appreciate imaging findings in congenital globe and orbit disease.
2. To learn about inflammation and infection.
3. To become familiar with the complications and pathways of orbital infections.

17:00
A-103  C. Benign and malignant neoplastic tumours
W.S. Müller-Forell; Mainz/DE
Learning Objectives:
1. To become acquainted with the differential diagnoses of orbital masses.
2. To learn an approach to differentiating orbital tumours.
3. To appreciate the typical imaging findings of benign and malignant orbital neoplasms.

16:00–17:30 Room G
Genitourinary
RC 407  Prostate imaging: how I do it

16:00
A-104  Chairman’s introduction
H.-P. Schlemmer; Heidelberg/DE
Session Objectives:
1. To learn how to perform and interpret multiparametric MRI for best possible detection and biologic characterisation of cancer foci within the prostate.
2. To become familiar with the current options of image-guided biopsy.
3. To understand the clinical relevance of multiparametric MRI for treatment decision-making during active surveillance and after initial therapy.

16:05
A-105  A. Detection and assessment of aggressiveness
P.A. Puech; Lille/FR
Learning Objectives:
1. To understand the different types of prostate cancer within the gland.
2. To become familiar with common pitfalls of prostate cancer semiology at multiparametric MRI.
3. To understand the clinical relevance of multiparametric MRI for treatment decision-making during active surveillance and after initial therapy.

16:28
A-106  B. Image-guided biopsy and staging
F. Fornel, C. Escourrou, N.B. Delongchamps; Paris/FR
Learning Objectives:
1. To understand the techniques of prostate biopsy.
2. To become familiar with the MR-guided and MR/TRUS fusion approach.
3. To learn about the optimal imaging protocol for the staging of prostate cancer.

16:51
A-107  C. Role of imaging in active surveillance and detection of recurrence
V. Logager; Copenhagen/DK
Learning Objectives:
1. To learn about the role of multiparametric MRI in guiding therapy towards active surveillance.
2. To learn about the imaging findings in local recurrence after treatment.
3. To understand the impact in treatment planning as a consequence of these findings.

Panel discussion:
How can multiparametric MRI be implemented as clinical standard across multiple centres?

16:00–17:30 Room K
E³ - ECR Academies: Hybrid Imaging (basic)
E³ 418  Scanners and tracers
Moderator: G. Antoch, Düsseldorf/DE

16:00
A-108  A. Hybrid imaging:
what systems are available and how do they work
T. Beyer; Vienna/AT
Learning Objectives:
1. To understand the basic design of hybrid imaging systems.
2. To become familiar with scanner technology.
3. To learn about different approaches to PET attenuation correction.

16:30
A-109  B. Radionuclides for PET/CT and MR/PET
M. Hacker; Vienna/AT
Learning Objectives:
1. To understand the principle of FDG in oncology.
2. To become familiar with non-FDG radionuclides and their indications.
3. To consolidate knowledge of tracer kinetics.

17:00
A-110  C. Radiopharmaceuticals for SPECT/CT
J.R. Ballinger; London/UK
Learning Objectives:
1. To learn about the basic radionuclides for SPECT/CT.
2. To understand tracer kinetics in SPECT.
3. To appreciate SPECT tracers and their indications.

16:00–17:30 Room MB 1
Vascular
RC 415  Basic principles of varicose vein diagnosis and endovascular treatment
Moderator: D. Karnabatidis, Patras/GR

16:00
A-111  A. Diagnostic cross-sectional imaging
H. Hoppe; Berne/CH
Learning Objectives:
1. To become familiar with the whole spectrum of varicose vein pathology.
2. To learn about technical principles of a state-of-the-art lower limb venous ultrasonographic study.
3. To learn how to extrapolate ultrasonographic findings into endovascular treatment.

16:30
A-112  B. Saphenous vein ablation
A. Rampoldi; Milan/IT
Learning Objectives:
1. To understand the principles of ablation therapy.
2. To learn the technique for ablation and how to avoid complications.
3. To learn about outcomes and complications.

17:00
A-113  C. Ultrasound guided sclerotherapy
J. Brookes; London/UK
Learning Objectives:
1. To learn about the principles of venous sclerotherapy.
2. To learn about technical principles of US-guided sclerosis of lower limb veins.
3. To learn about pros and cons of US-guided sclerosis versus endovascular ablation.
16:00–17:30 Room MB 2

Cardiac

RC 403  Quantification of myocardial perfusion: which test is the best (PET, MRI, MDCT)?

Moderator: M. Williams, Edinburgh/UK

16:00

A-114  A. PET for evaluation of perfusion, absolute myocardial blood flow and coronary flow reserve

S. Kajander, Turku/FI

Learning Objectives:
1. To understand the molecular tracers used to assess myocardial perfusion by PET.
2. To appreciate the strengths and limitations of PET in evaluating myocardial perfusion.
3. To become familiar with its role in different clinical scenarios.

16:30

A-115  B. Stress perfusion CT imaging for the detection and quantification of relevant coronary stenosis

F. Bamberg, Tübingen/DE

Learning Objectives:
1. To learn about protocol setup and interpretation of stress myocardial perfusion CT.
2. To understand the prognostic implications and therapeutic considerations of CT perfusion parameters.
3. To appreciate the value of stress myocardial perfusion CT for the detection of significant coronary stenosis.

17:00

A-116  C. Analysis of myocardial perfusion using MRI

R. Manka, Zurich/CH

Learning Objectives:
1. To learn about protocol setup and interpretation of stress myocardial perfusion CT.
2. To understand the role of CMR perfusion imaging as a tool for diagnosis and prognosis of coronary artery disease.
3. To discuss how CMR perfusion can be utilised in the assessment of microvascular disease.

16:00–17:30 Room MB 3

Interventional Radiology

RC 409  Basic principles of percutaneous tumour ablation

16:00

A-117  Chairman’s introduction

T. de Baère, Villejuif/FR

16:05

A-118  A. Thermal ablation with RF

V. Miele, Rome/IT

Learning Objectives:
1. To learn about the physical and technical basis of radiofrequency ablation.
2. To understand the advantages and limitations of the technique.
3. To become familiar with the current indications in oncology.

16:23

A-119  B. Microwave ablation: what is the difference?

P.L. Pereira, Heilbronn/DE

Learning Objectives:
1. To learn about the physical and technical basis of microwave ablation.
2. To understand the advantages and limitations of the technique as compared to RF ablation.
3. To become familiar with the current indications in oncology.

16:41

A-120  C. Cryoablation: ice can be better than heat

D.J. Breen, Southampton/UK

Learning Objectives:
1. To learn about the physical and technical basis of cryoablation.
2. To understand the advantages and limitations of the technique.
3. To become familiar with the current indications in oncology.

16:59

A-121  D. Irreversible electroporation: principles, technique and clinical applications

A. Nilsson, Uppsala/SE

Learning Objectives:
1. To understand the physical and technical basis of irreversible electroporation (IRE).
2. To understand the advantages and limitations of the technique.
3. To become familiar with the current indications in oncology.

17:17

Panel discussion:
Selection of ablation modalities: operator’s preference or evidence-based?

16:00–17:30 Room MB 4

Emergency Radiology

RC 417  ‘Special patients’ in the emergency room: when and how to image them?

Moderator: S. Wirth, Munich/DE

16:00

A-122  A. Children

V. Miele, Rome/IT

Learning Objectives:
1. To be familiar with common non-traumatic emergencies in the paediatric population.
2. To comprehend the rationale of using different diagnostic imaging methods in emergency situations.
3. To be aware of the impact of imaging findings on patient management.

16:30

A-123  B. Pregnant patients

H. Alkadhi, Zurich/CH

Learning Objectives:
1. To be familiar with the most common non-traumatic emergencies in pregnant women.
2. To learn which tests to choose in pregnant patients for the diagnostic evaluation of pulmonary embolism and acute abdomen.
3. To know current guidelines and recommendations for contrast media administration in pregnancy.

17:00

A-124  C. Elderly patients

H. Alkadhi, Zurich/CH

Learning Objectives:
1. To be familiar with typical and atypical clinical emergency situations in the elderly.
2. To understand imaging strategies and the role of different imaging methods in elderly patients.
3. To learn common and specific imaging findings in the elderly population.
Paediatric

RC 412  Imaging of foetus and infant
Moderator: D. Prayer; Vienna/AT

16:00
A-125  A. Foetal neuro imaging
A. Rossi; Genoa/IT

Learning Objectives:
1. To learn how to perform prenatal brain MRI and to recognise normal features at various gestational weeks.
2. To highlight the complementary role of brain MRI to prenatal ultrasound for various indications, with a particular focus on the problem of ventriculomegaly.
3. To familiarise oneself with the MRI features of the main congenital malformations and clastic injury affecting the foetal brain.

16:30
A-126  B. Foetal body imaging
M. Cassart; Brussels/BE

Learning Objectives:
1. To have an overview of foetal abdominal diseases and malformations.
2. To learn about the complementary roles of US and MRI.
3. To understand how prenatal imaging helps in the management of the foetus and the newborn.

17:00
A-127  C. Foetal and neonatal urinary tract imaging
C. Garel; Paris/FR

Learning Objectives:
1. To learn about the changing appearance of the urinary tract throughout pregnancy and at birth.
2. To become familiar with the main causes of obstruction and their possible impact on the kidneys.
3. To learn about the main causes of hyperechoic kidneys.
08:30–10:00  Room A

**E³ - ECR Academies: Interactive Teaching Sessions**

**E³ 521  What to look for after treatment of lung cancer**

**08:30**

**A-128  A. Imaging of surgically treated lung cancer**

C.P. Heussel; Heidelberg/DE

**Learning Objectives:**
1. To appreciate the complications after surgery for lung cancer.
2. To understand the anatomic changes which occur after surgery for lung cancer.

**09:15**

**A-129  B. Imaging of non-surgical treatment of lung cancer**

B. Ghaye; Brussels/BE

**Learning Objectives:**
1. To learn about sequelae after radiotherapy.
2. To learn about sequential changes after percutaneous ablation of lung tumours.

08:30–10:00  Room B

**Abdominal Viscera**

**RC 501  The many faces of benign liver lesions**

Moderator: L. Grenacher; Heidelberg/DE

**08:30**

**A-130  A. Vascular**

M. Karcaaltincaba; Ankara/TR

**Learning Objectives:**
1. To become familiar with typical and infrequent manifestations of benign hypervascular focal liver lesions.
2. To learn how to differentiate between benign and malignant lesions.
3. To appreciate the limitations and complementary roles of CT and MR.

**09:00**

**A-131  B. Cystic-Biliary**

G. Brancatelli; Palermo/IT

**Learning Objectives:**
1. To understand the features of congenital and infectious cystic liver lesions.
2. To learn how to differentiate between benign and malignant cystic lesions.

**09:30**

**A-132  C. Hepatocellular**

R.L. Baron; Chicago, IL/US

**Learning Objectives:**
1. To understand the typical aspect of hepatocellular benign lesions on US, CT and MRI.
2. To learn when a liver-specific contrast medium can help us in the proper characterisation of hepatocellular benign liver lesions.
3. To understand the classification of liver adenomas, prognosis and imaging characteristics.

08:30–10:00  Room C

**Special Focus Session**

**SF 5  Advanced applications in ultrasound**

**08:30**

**A-133  Chairman’s introduction**

T. Fischer; Berlin/DE

**Session Objectives:**
1. To understand the physics and clinical potential of advanced ultrasound applications such as CEUS, shear wave elastography or ultrafast Doppler.
2. To learn in detail about the clinical use of CEUS in pancreatic diseases, molecular imaging and antiangiogenic treatment.
3. To appreciate the potential clinical utility of shear wave elastography and new Doppler techniques.

**08:35**

**A-134  Contrast-enhanced ultrasound of the pancreas**

M. D’Onofrio; Verona/IT

**Learning Objectives:**
1. To learn the appropriate protocols and settings for contrast-enhanced ultrasound (CEUS) examination of the pancreas.
2. To describe the technique for CEUS of the pancreas.
3. To detail the clinical use of CEUS in the evaluation of pancreatic pathologies.
4. To know the best indications for CEUS in the main pancreatic diseases.
5. To describe CEUS findings for the characterisation of focal pancreatic masses.
6. To compare CEUS to CT and MRI findings in studying pancreatic pathologies.
7. To discuss the possible different role of CEUS in the diagnostic work-up of focal pancreatic lesions.

**08:53**

**A-135  Molecular ultrasound and dynamic contrast-enhanced US for antiangiogenic therapy monitoring**

N. Lassau; Villejuif/FR

**Learning Objectives:**
1. To understand physics and clinical potential of molecular imaging and new markers with ultrasound.
2. To understand technologies of dynamic contrast-enhanced ultrasound (DCEUS) and ways of quantification.
3. To describe the protocols and results of a large multicentre study performed with quantitative DCEUS.
4. To discuss application in routine clinical practice and future outlook.

**09:11**

**A-136  State-of-the-art ultrasound technologies: elastography and microvascular imaging - are they useful?**

M. D’Onofrio; Palermo/IT

**Learning Objectives:**
1. To understand the physics and technologies of elastography and microvascular imaging.
2. To describe the differing elastography techniques and microvascular imaging.
3. To detail the potential clinical utility of elastography and microvascular imaging.
4. To discuss the evidence for the use of these technologies in routine clinical practice.

**09:29**

**A-137  ShearWave elastography, ultrafast Doppler and image fusion**

J.-M. Correas; Paris/FR

**Learning Objectives:**
1. To understand the physics and technologies of shearwave elastography and ultrafast Doppler.
2. To describe the differing elastography techniques.
3. To detail the potential clinical utility of elastography and image fusion.
4. To discuss the evidence for the use of these technologies in routine clinical practice.
08:30–10:00 Room Z

**Joint Session of the ESR and EFSUMB**

**Advances in diagnostic ultrasound: better results through integration**

Moderators: G. Mostbeck, Vienna/AT, P.S. Sidhu, London/UK

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**08:30 A-138**

**Diagnosis, characterisation and staging of tumours of the female pelvis**

A.G. Rockall, D. DeFreind; London/UK, Abbotskerswell/UK

*Learning Objectives:*
1. To appreciate the respective roles of US, MR and CT in patients with ovarian and uterine tumours.
2. To understand when US can be considered a definitive examination and when CT and/or MR are needed to characterise pelvic masses.
3. To recognise when a US examination can be useful after MR and/or CT identification of a tumour of the female pelvis.

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**09:00 A-139**

**Diagnosis, characterisation and staging of renal tumours**

S. Freeman, N. Grenier; Plymouth/UK, Bordeaux/FR

*Learning Objectives:*
1. To appreciate the respective roles of US, MR and CT in patients with renal tumours.
2. To understand when US can be considered a definitive examination and when CT and/or MR are needed to characterise renal masses.
3. To recognise when a US examination can be useful after MR and/or CT identification of a tumour of the kidney.

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**09:30 A-140**

**Diagnosis, characterisation and staging of liver tumours**

H.-P. Weskott, A. Ba-Ssalamah; Hannover/DE, Vienna/AT

*Learning Objectives:*
1. To appreciate the respective roles of US, MR and CT in patients with liver tumours.
2. To understand when US can be considered a definitive examination and when CT and/or MR are needed to characterise hepatic masses.
3. To recognise when a US examination can be useful after MR and/or CT identification of a tumour of the liver.

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**08:30–10:00 Room N**

**E³ - ECR Academies: Image-Guided Interventions in Oncology**

E³ 519  Hepatic primary tumours: ‘prime time’ for interventional radiologists?

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**08:30 A-143 C. MR/PET**

HH Quick, Essen/DE

*Learning Objectives:*
1. To identify frequent artefacts in MR and PET imaging.
2. To understand the physical origin of and methods to resolve artefacts in MR/PET imaging.
3. To understand the interrelation of MR artefacts and bias in PET quantification in MR/PET imaging.

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**08:30 A-144**

**Chairman’s introduction**

M. Bezzi, Rome/IT

*Session Objectives:*
1. To learn about the role of interventional radiology in the therapeutic strategies for hepatocellular carcinoma.
2. To understand the added clinical value of image-guided interventions in different stages of hepatocellular carcinoma.
3. To become familiar with the several image-guided techniques available.

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**08:33 A-145 A. Percutaneous techniques: the clinical value of minimally invasive options**

B. Gebauer, Berlin/DE

*Learning Objectives:*
1. To understand when percutaneous ablation is indicated (BCLC guidelines).
2. To understand when radiofrequency ablation (RFA) and when microwaves ablation (MW) are indicated and which guidance is recommended.
3. To consolidate knowledge of results from the literature.

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**09:02 A-146 B. Intra-arterial therapies 2.0: the embolising techniques in the era of the micro-beads**

A. Denys, Lausanne/CH

*Learning Objectives:*
1. To understand when intra-arterial treatments (transarterial bland embolisation, conventional chemoembolisation, drug-eluting beads chemoembolisation) are indicated (BCLC guidelines).
2. To understand when percutaneous ablation is indicated
3. To consolidate knowledge of results from the literature.

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**09:31 A-147 C. Intra-arterial therapies 2.0: radioembolisation as a common daily practice**

J.I. Bilbao, Pamplona/ES

*Learning Objectives:*
1. To understand when transarterial radioembolisation is indicated (BCLC guideline).
2. To understand when radiofrequency ablation (RFA) and when microwaves ablation (MW) are indicated and which guidance is recommended.
3. To consolidate knowledge of results from the literature.
Breast

SA 5  Rethinking ductal carcinoma in situ (DCIS)

08:30  A-151  Chairman’s introduction

Chair: G. Forrai; Budapest/HU

Session Objectives:
1. To become familiar with the state-of-the-art preoperative workup of DCIS.
2. To appreciate the degree of over- and underestimation of DCIS by imaging.
3. To understand the relevance of histological subtypes in the therapy planning.

08:34

A-152  New molecular pathologic knowledge on DCIS

T. Tog; Falun/SE

Learning Objectives:
1. To describe the molecular phenotypes of DCIS.
2. To analyse the relation of the molecular phenotype of DCIS to multifocality and radiological manifestation.
3. To evaluate the prognostic impact and therapeutic implications of phenotyping DCIS.

08:56

A-153  Diagnosing DCIS with MRI

C.K. Kuhl; Aachen/DE

Learning Objectives:
1. To understand the pathophysiological basis of DCIS detection in mammography and MRI.
2. To list imaging features of DCIS.
3. To appreciate current and future applications of MRI for diagnosing DCIS.

09:18

A-154  Image-guided interventions for DCIS

R.M. Pijnappel; Utrecht/NL

Panel discussion:
Patient with DCIS: how to plan her therapy in 2015?

Oncologic Imaging

RC 516  Gastro-entero-pancreatic neuro-endocrine tumours (GEP-NET): a multidisciplinary update

08:30  A-159  Chairman’s introduction

A.E. Sundin; Uppsala/SE

Session Objectives:
1. To become familiar with the clinical and pathological aspects of GEP-NET.
2. To learn about the role of cross-sectional and nuclear medicine imaging techniques in GEP-NET.

08:35

A-160  A. Tumour biology, pathogenesis and classification

M.E. Pavel; Berlin/DE

Learning Objectives:
1. To learn about the basic aspects of GEP-NET biology, pathogenesis and classification.
2. To understand the epidemiology and current treatment options.
3. To become familiar with rational clinical management.

08:58

A-161  B. The current role of nuclear medicine

S. Fanti; Bologna/IT

Panel discussion:
The future of hybrid imaging
Professional Challenges Session

PC 5b Imaging biobanks: from genomic to radiomic in the era of personalised medicine

08:30 A-163 Chairmen’s introduction
G. Frija1, E. Neri2; 1Paris/FR, 2Pisa/IT

Session Objective:
1. To briefly introduce the concepts and the link between them: quantitative imaging, biomarker, radiomic, imaging biobank, personalised medicine.

08:33 A-164 The biobanks: genomic, molecular and proteomic - Which link to radiomics?
M. Borro, G. Chillemi, M. Simmaco; Rome/IT

Learning Objective:
1. To report the rationale of linking genomic, molecular and proteomic (the so called “omics”) with radiomic.

08:51 A-165 Radiomic: report from the ESR Working Group on Imaging Biobanks
H.-U. Kauczor; Heidelberg/DE

Learning Objective:
1. To report the rationale of the Imaging Biobanks Working Group and the stage.

09:09 A-166 Existing imaging biobanks
A. Jackson; Manchester/UK

Learning Objective:
1. To report the experience carried out with the existing imaging biobanks (i.e. UK Biobank).

09:27 A-167 Extraction and analysis of biomarkers from medical images
B. Gibaud; Rennes/FR

Learning Objective:
1. To describe how we can extract the relevant information from medical images and how these can be analysed and correlated with other kinds of information (lab values, genotypes, etc.).

Panel discussion:
Future strategies for the development and the federation of biobanks, definition of standards, etc.

Chest

RC 504 COPD, Airways disease and beyond

08:30 A-168 Chairman’s introduction
P.A. Grenier; Paris/FR

Session Objectives:
1. To learn about the role of HRCT in the classification of COPD.
2. To learn tips for getting the most out of CT techniques for the morphological and quantitative evaluation of COPD and airway diseases.
3. To become familiar with the future growing role of MRI in the assessment of lung disease.

08:58 A-170 Airways disease: The role of expiratory CT
A. Devaraj; London/UK

Learning Objectives:
1. To become familiar with different diseases that affect the airways.
2. To learn when inspiratory and expiratory CT may be of value in patients with lung disease.

09:21 A-171 Is there a role for MRI?
M. O. Wielpütz; Heidelberg/DE

Learning Objectives:
1. To learn about different MRI techniques used to assess pulmonary disease.
2. To appreciate when MRI may be of value in patients with pulmonary disease.

Panel discussion:
When should we do expiratory CT, and when should we consider doing an MRI?
08:30–10:00 Room G

**Neuro**

**RC 511 Cerebrovascular disease**

Moderator: M.P. Wattjes, Amsterdam/NL

08:30

**A-175 A. Vascular distribution territories: arterial and venous**

A: Bernt; T: Engelhorn, Charing, DE

Learning Objectives:
1. To become familiar with a comprehensive vascular anatomy of the brain.
2. To understand the advantages and limitations of CTA and MRA.
3. To recognise the different imaging patterns in stroke and their prognostic value.

09:00

**A-176 B. Detecting microhaemorrhages: why are they important? What are they? Should we use GRE T2* or SWI or both?**

H.R. Jäger; London/UK

Learning Objectives:
1. To show the basic physics of the two sequences.
2. To understand the role of both sequences in stroke and other disorders.
3. To recognise imaging patterns that may mimic stroke clinically and radiologically.

09:30

**A-177 C. Cerebral perfusion studies in cerebrovascular disease: techniques, indications and applications**

P.M. Parizel, F. De Belder, C. Venstermans, T. Van der Zijden, J. Huyskens, J. Van Goethem, L. van den Hauwe, M. Voormolen, Antwerp/BE

Learning Objectives:
1. To understand how imaging can help select patients for treatment of acute ischaemic stroke.
2. To show the importance of collateral flow in ischaemic patients.
3. To explain the actual EBM treating patients with acute ischaemic stroke.

08:30–10:00 Room K

**E³ - ECR Academies: Hybrid Imaging (basic)**

**E³ 518 Imaging protocols for PET/CT and MR/PET**

Moderator: C. Pfannenberg, Tübingen/DE

08:30

**A-178 A. Does it make sense to use CT contrast agents in PET/CT**

G. Antoch; Düsseldorf/DE

Learning Objectives:
1. To become familiar with indications for CT contrast agents in PET/CT.
2. To understand the effect of CT contrast on PET tracer quantification.
3. To learn about contrast-associated artefacts in PET/CT.

09:00

**A-179 B. PET/CT imaging protocols**

T. Binder; Vienna/AT

Learning Objectives:
1. To learn about different imaging protocols in PET/CT.
2. To appreciate an indication-based selection of different imaging protocols.
3. To consolidate knowledge of available image reconstruction parameters.

09:30

**C. MR/PET imaging protocols**

O. Ratib; Geneva/CH

Learning Objectives:
1. To become familiar with different imaging protocols in MR/PET.
2. To appreciate the indications for diffusion-weighted imaging in MR/PET.
3. To understand indications for contrast agents in MR/PET.

08:30–10:00 Room MB 1

**Vascular**

**RC 515 Imaging and intervention in acute ischaemic stroke**

Moderator: P. Zampakis, Patras/GR

08:30

**A-181 A. Acute stroke imaging**

K.-O. Lovblad; Geneva/CH

Learning Objectives:
1. To learn about parenchymal and vascular stroke imaging.
2. To become familiar with appropriate imaging protocols for all imaging modalities.
3. To learn about the pros and cons of each modality.

09:00

**A-182 B. Indications for intervention**

N. Kocer; Istanbul/TR

Learning Objectives:
1. To learn how to define the indication for treatment.
2. To learn about the treatment decision-making process.
3. To learn about the classification of lesions and indications for treatment.

09:30

**A-183 C. Mechanical revascularisation**

T. van der Zijden, M. Voormolen, O. d’Archambeau, F. de Belder, C. Venstermans, L. van den Hauwe, J. Van Goethem, P.M. Parizel, Edegem/BE

Learning Objectives:
1. To learn the difference between mechanical and pharmacological stroke treatment.
2. To learn about different mechanical revascularisation techniques.
3. To learn how to manage complications.

08:30–10:00 Room MB 2

**Cardiac**

**RC 503 Imaging of cardiac valves: new trends**

Moderator: F. Pugliese, London/UK

08:30

**A-184 A. Echocardiography remains the reference technique**

T. Binder; Vienna/AU

Learning Objectives:
1. To learn about state-of-the-art echo techniques to evaluate cardiac valves.
2. To provide a practical approach to assessing valve pathology based on echocardiography.
3. To become familiar with the role of echo in the diagnosis, clinical management and prognosis.

09:00

**A-185 B. MRI is the best comprehensive approach**

M. Francone; Rome/IT

Learning Objectives:
1. To learn about the role of MRI in diagnosis and evaluation of valvular disease.
2. To become familiar with state-of-the-art MRI techniques to evaluate valvular disease.
3. To learn about typical imaging findings in MRI with impact on clinical management.
09:30  A-186  C. Does CT have a role in diagnosing valvular disease?
G. Feuchtner; Innsbruck/AT

**Learning Objectives:**
1. To learn about state-of-the-art CT techniques to evaluate cardiac valves at low dose.
2. To review CT appearance of the most common conditions causing valvular disease.
3. To become familiar with the role of CT in the diagnosis and clinical management.

08:30–10:00  Room MB 3

### Interventional Radiology

**RC 509  Percutaneous treatment of chronic back pain and sciatica**

08:30  A-187  Chairman’s introduction
A. Gangi; Strasbourg/FR

08:35  A-188  A. Sacroiliac joint syndrome
D.J. Wilson; Oxford/UK

**Learning Objectives:**
1. To learn about relevant anatomy and clinical presentations of the syndrome.
2. To learn more about the available treatments.
3. To learn about clinical results and possible further developments.

08:58  A-189  B. Facet joint syndrome
A. Palikó; Szeged/HU

**Learning Objectives:**
1. To understand the difference between facet joint and disc disease.
2. To learn about different treatment options for facet disease.
3. To learn how to manage patients.

09:21  A-190  C. Intervertebral disc syndrome
D. Filippidis; Athens/GR

**Learning Objectives:**
1. To understand possible treatment techniques for disc disease.
2. To learn more about clinical and imaging findings in treatment.
3. To learn about published results on percutaneous disc treatment.

### Joint Course of ESR and RSNA

(Radiological Society of North America): Emergency Radiology

**MC 528  Abdominal emergencies**
Moderator: A. Palikó; Szeged/HU

08:30  A-191  A. Abdominal injuries
A. Palikó; Szeged/HU

**Learning Objectives:**
1. To understand the significance of injury mechanism and its role in the formation of consequent abdominal lesions and their complications.
2. To learn about the role of proper imaging technique and diagnostic algorithm in the sufficiently fast diagnosis of abdominal injuries.
3. To learn more about the typical and unusual findings of various abdominal traumatic conditions.

09:00  A-192  B. The enemy within: non-traumatic abdominal emergencies
M. Claudon; Vandoeuvre-les-Nancy/FR

**Learning Objectives:**
1. To learn how to better analyse CT scans for non-traumatic causes of abdominal pain.
2. To learn about the CT signs and causes of bowel ischaemia.
3. To learn about the CT findings of common causes of an ‘acute’ abdomen.
4. To learn about the imaging findings of acute, non-traumatic urinary tract and GI tract emergencies.

08:30–10:00  Room MB 5

### E³ - ECR Academies: Diagnostic Urogenital Radiology

**E³ 520  Kidney**
Moderator: C. Nicolau; Barcelona/ES

08:30  A-194  A. Differential diagnoses of cystic renal masses
M. Claudon; Vandoeuvre-les-Nancy/FR

**Learning Objectives:**
1. To become familiar with the updated Bosniak classification.
2. To learn about the differential diagnoses of complex cystic renal masses.
3. To become familiar with typical surgical and non-surgical lesions.

09:00  A-195  B. Differential diagnoses of solid renal masses
S.H. Kim; Seoul/KR

**Learning Objectives:**
1. To learn about the differential diagnoses of solid renal lesions.
2. To become familiar with typical imaging findings of the renal cell carcinoma subtypes.
3. To become familiar with potential criteria for active surveillance of solid renal masses.

09:30  A-196  C. Acute and chronic renal infection
J. Lopes Dias; Lisbon/PT

**Learning Objectives:**
1. To learn about the different etiologies of acute renal infection, including typical imaging findings.
2. To learn about the time-point and possibilities for interventions.
3. To understand the causes of chronic renal infection, including typical imaging findings.
E³ - ECR Academies: Interactive Teaching Sessions

E³ 621  The treated liver

10:30
A-197  A. Imaging of liver transplantation
J.B. Karani, London/UK

Learning Objectives:
1. To understand the common imaging findings after liver transplantation.
2. To recognise significant complications following liver transplantation.

11:15
A-198  B. Imaging of treated liver tumours
I. Bargellini, Pisa/IT

Learning Objectives:
1. To understand the common imaging findings after chemotherapy for liver tumours.
2. To recognise common imaging findings after radiofrequency ablation of liver tumours.
3. To be aware of the common imaging findings following transarterial treatment of liver tumours.

Joint Course of ESR and RSNA (Radiological Society of North America): Emergency Radiology

MC 628  Chest emergencies
Moderator: A. Paikó, Szeged/HU

10:30
A-202  A. Thoracic injuries
M. Brink, Nijmegen/NL

Learning Objectives:
1. To learn how to differentiate traumatic aortic injuries from congenital variants that mimic injury, to distinguish minor from major aortic injuries, and to understand how injury classification can influence management.
2. To become familiar with the various CT appearances suggesting and verifying major aortic injury.
3. To understand the various CT appearances of blood/bleeding in the chest and how the location, quantity of blood/bleeding and patient clinical status determine initial treatment.
4. To appreciate the spectrum of cardiac injuries that can be diagnosed on admission contrast-enhanced CT and those that require urgent intervention.

11:00
A-203  B. Non-traumatic thoracic emergencies
C.M. Schaefer-Prokop, Amersfoort/NL

Learning Objectives:
1. To illustrate typical CXR findings made in patients entering the ER with acute dyspnoea and to learn when CT is indicated and diagnostically useful.
2. To learn how to analyse and interpret HRCT patterns of pulmonary opacifications in patients with acute respiratory insufficiency.
3. To learn about radiological key features helpful for differential diagnosis and how to integrate clinical information.

12:15–12:45  Room A

Plenary Session

HL 1  Josef Lissner - Honorary Lecture
Presiding: B. Hamm, Berlin/DE

12:15
A-208  Is the 'Art of Medicine' dead in the era of population health management?
J.A. Brink, Boston, MA/US

Learning Objectives:
1. To learn the principles of population health management.
2. To consider the impact of variation in the practice radiology on population health.
3. To understand the potential roles that radiologists can play to improve population health.
4. To study the impact of these changes on the art and science of medicine.
**12:30–13:30 Room B**

### E³ - The Beauty of Basic Knowledge: Breast Imaging

#### E³ 25B  Cracking the mystery of needles and gauges

*Moderator: J. Camps Herrero, Alzira/ES*

12:30  
A-209  **Cracking the mystery of needles and gauges**  
*R. M. Pijnappel, Utrecht/NL*

**Learning Objectives:**
1. To learn about the choice of techniques used for guidance in breast interventions.
2. To know the different breast biopsy systems and their indications.
3. To learn the most common practical tips and pitfalls in these procedures.

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### 12:30–13:30 Room D1

### E³ - The Beauty of Basic Knowledge: Skeletal Radiology

#### E³ 24B  The concept of degeneration: the tendons

*Moderator: V. Cassar-Pullicino, Oswestry/UK*

12:30  
A-210  **The concept of degeneration: the tendons**  
*K. Bohndorf, Vienna/AT*

**Learning Objectives:**
1. To learn about ultrastructure and anatomy of tendons.
2. To understand the concept of degeneration.
3. To understand imaging features of tendon degeneration.

---

### 14:00–15:30 Room A

### E³ - ECR Academies: Interactive Teaching Sessions

#### E³ 721  The treated spine and joints

14:00  
A-211  **A. Imaging of the postoperative spine**  
*P. N. M. Tyrrell, Oswestry/UK*

**Learning Objectives:**
1. To understand changes related to surgery.
2. To learn about changes related to non-surgical treatments.

14:45  
A-212  **B. Imaging of joint replacement**  
*M. Zanetti, Zurich/CH*

**Learning Objectives:**
1. To learn about changes related to surgery.
2. To understand changes related to non-surgical treatments.
14:00–15:30 Room N

**ESOR Session  Striving in radiological education**  
Moderators: L. Bonomo, Rome/IT, N. Gourtsoyiannis, Athens/GR

14:00  
**A-218 Introduction**  
L. Bonomo; Rome/IT  
**Session Objectives:**  
1. To understand the importance of a homogenous education path in each European country and its impact on young radiologists’ training.  
2. To illustrate which steps ESR and ESOR are going to take in the future to implement the education project.

14:05  
**A-219 ESOR in action 2015**  
N. Gourtsoyiannis; Athens/GR

14:15  
**A-220 The role of the European Training Curriculum: present and future**  
B. Ertl-Wagner; Munich/DE

14:35  
**A-221 Spoon-feeding: present and future**  
P.R. Ros; Cleveland, OH/US

14:55  
**A-222 E-learning portfolios: present and future**  
M. Maas; Amsterdam/NL

15:15  
**Awards**

14:00–15:30 Room MB 4

**Joint Course of ESR and RSNA (Radiological Society of North America): Emergency Radiology**

**MC 728 CNS emergencies**  
Moderator: A. Palkó, Szeged/HU

14:00  
**A-228 A. CNS trauma and neurovascular injury**  
H.A. Rowley; Madison, WI/US  
**Learning Objectives:**  
1. To become familiar with traumatic brain injury demographics and classification schemes.  
2. To learn how to apply appropriateness criteria for head trauma imaging in children and adults.  
3. To identify key imaging patterns and pitfalls in the evaluation of brain and neurovascular trauma.

14:30  
**A-229 B. CNS non-traumatic emergencies**  
M. Smits; Rotterdam/NL  
**Learning Objectives:**  
1. To learn about the modalities (CT/MRI) and protocols for non-traumatic neurological emergencies.  
2. To learn how to diagnose the main non-traumatic neurological vascular and non-vascular emergencies.  
3. To become aware of the pitfalls and limitations of clinical presentation and imaging findings in non-traumatic neurological emergencies.

14:45  
**A-230 C. Interactive case discussion**  
H.A. Rowley1, M. Smits2; 1 Madison, WI/US, 2 Rotterdam/NL  
**Learning Objectives:**  
1. To learn about traumatic brain injury (TBI) and non-traumatic neurological emergencies.  
2. To become familiar with imaging manifestations of TBI and non-traumatic neurological emergencies.  
3. To understand the clinical implications of radiological imaging findings in TBI and non-traumatic neurological emergencies.  
4. To learn about the state-of-the-art radiological imaging options for the assessment of acute TBI and non-traumatic neurological emergencies.
14:00–15:30  Room MB 5

**E³ - ECR Academies:**
Diagnostic Urogenital Radiology

**E³ 720  Prostate**
Moderator: J.J. Fütterer; Aix-en-Provence/Fr

14:00
**A-231  A. Ultrasound of the prostate**
J. Venancio; Lisbon/PT

*Learning Objectives:*
1. To become familiar with the technical requirements to perform US of the prostate.
2. To learn about the anatomy of the prostate.
3. To understand how to detect suspicious lesions for ultrasound-guided biopsy.

14:30
**A-232  B. Multiparametric MRI of the prostate**
G.M. Villeirs; Gent/BE

*Learning Objectives:*
1. To become familiar with technical aspects of DCE-MRI, DWI and MR spectroscopy.
2. To understand how to recognise the advantages and limitations of each technique.
3. To understand how to detect significant disease of prostate cancer in the peripheral zone.

15:00
**A-233  C. Staging of prostate cancer**
A.R. Padhani; London/UK

*Learning Objectives:*
1. To become familiar with the imaging techniques used for staging, including functional MRI.
2. To become familiar with the common sites of metastases.
3. To learn how to use functional techniques for follow-up of metastatic disease.

16:00–17:30  Room A

**E³ - ECR Academies:**
Interactive Teaching Sessions

**E³ 821  Central nervous system changes after treatment: what you need to know**

16:00
**A-234  A. Drug-related conditions**
F. Barkhof; Amsterdam/NL

*Learning Objectives:*
1. To understand changes related to systemic treatment.
2. To learn about CNS treatment agents.

16:45
**A-235  B. Imaging of treated brain tumours**
J. Alvarez-Linera; Madrid/ES

*Learning Objectives:*
1. To appreciate CNS manifestations after surgery.
2. To understand CNS changes after radiotherapy and other non-surgical treatments.

16:00–17:30  Room B

**Special Focus Session**

**SF 8a  Advanced brain MRI techniques in paediatrics: toys or tools in daily practice?**

16:00
**A-236  Chairman’s introduction**
A. Rossi; Genoa/IT

*Session Objectives:*
1. To understand the indications of advanced MRI techniques (arterial spin-labelling perfusion imaging, MR spectroscopy, and diffusion tensor imaging) in the study of the paediatric brain under normal and abnormal conditions.
2. To learn how to practically implement these techniques in daily practice and to avoid pitfalls and artefacts.
3. To appreciate the potential applications and future trends of research in this field.

16:03
**A-237  Arterial spin-labelling: measuring perfusion non-invasively in neonates and children**
J. Hendrikse; Utrecht/NL

*Learning Objectives:*
1. To learn about the technical possibilities and challenges of the use of different arterial spin-labelling MRI methods (pulsed, continuous) in neonates and children.
2. To understand potential sources of artefacts and pitfalls of arterial spin-labelling MRI image interpretation.
3. To become familiar with the interpretation of arterial spin-labelling MRI images in neonates and children.

16:27
**A-238  MR spectroscopy: information vs time**
J.F. Schneider; Basle/CH

*Learning Objectives:*
1. To become familiar with the principal metabolites in the brain evaluated by proton spectroscopy.
2. To identify factors that can potentially interfere with obtaining spectroscopy results.
3. To assess the results from a patient's single- or multivoxel spectroscopy analysis.

16:51
**A-239  Diffusion tensor imaging: connecting the dots**
T.A.G.M. Huisman; Baltimore, MD/US

*Learning Objectives:*
1. To become familiar with the basics of diffusion tensor imaging (DTI) and fibre tractography (FT) in paediatric neuroradiology.
2. To understand the significance of DTI/FT for the exploration of the developing brain.
3. To learn how to use DTI/FT to better classify complex brain malformations.

Panel discussion:
17:15  Do advanced brain MRI techniques really change current practice?
Pros & Cons Session

**PS 827  Breast cancer: to screen or not to screen?**

Coordinator: F. Sardanelli; San Donato Milanese/IT
Teaser: N. Houssami; Sydney/AU

**16:00 A-240  A. Mammographic screening: pros**

Learning Objectives:
1. To be aware of estimates of breast cancer mortality reduction and overdiagnosis from screening mammography.
2. To evaluate the cost-effectiveness of population-based mammographic screening.
3. To show ways for improving population-based mammographic screening.

**16:25 A-241  B. Mammographic screening: cons**

A.B. Miller; Toronto, ON/CA

Learning Objectives:
1. To show limitations of mammographic screening in terms of population outcomes.
2. To evaluate the real impact of screening programmes in comparison with effectiveness of available therapies of breast cancer.
3. To outline a scenario for fighting against breast cancer without screening.

**16:50 A-242  Questions and answers**

F. Sardanelli, N. Houssami; San Donato Milanese/IT, Sydney/AU

Learning Objectives:
The discussion will address the following issues:
1. How much of the breast cancer mortality reduction in the last decades can be attributed to screening?
2. Do we really have reliable estimates for overdiagnosis?
3. How can we reduce interval cancer rate?
4. Are there technical or clinical improvements to be implemented in screening programmes?
5. Is the comparison between countries having/not having screening useful for understanding advantages/disadvantages of screening programmes?
6. What are the societal and ethical implications in stopping population screening mammography programmes?

**16:00–17:30 Room M**

Multidisciplinary Session

**MS 8  Critical limb ischaemia (CLI): limb salvage or life salvage?**

**16:00 A-243  Chairman’s introduction:**

J.A. Reekers, Amsterdam/NL

Session Objectives:
1. To learn what critical limb ischaemia is.
2. To understand what treatment options are available.
3. To appreciate a critical review of new technological treatment developments.

**16:20 A-244  Diagnostic imaging and outcome**

M. Roelert, Amsterdam/NL

Learning Objectives:
1. To learn about the value of diagnostic imaging.
2. To understand the outcome of treatment.
3. To appreciate how outcome can be tested.
4. To introduce Patient-Reported Outcome Measurements (PROM).

**16:40 A-245  The diabetic foot patient**

N. Scheping, Maasbracht/NL

Learning Objectives:
1. To learn about the clinical problems in diabetic foot disease.
2. To understand the different types of diabetic foot patients.
3. To appreciate how radiology and clinicians can work together.

**17:00 Multidisciplinary team case discussion**

1. To learn how a MDT should work.
2. To understand the role of the interventional radiologist.
3. To discuss the various treatment options for CLI.
4. To learn about the role of imaging.

**16:00–17:30 Room N**

**E³ - ECR Academies:**

**Image-Guided Interventions in Oncology**

**E³ 819  Kidney, lung and bone: an update on oncologic therapy**

**16:00 A-246  Chairman’s introduction**

A.D. Kelekis, Athens/GR

Session Objectives:
1. To become familiar with the several available image-guided techniques for treating renal, lung and bone tumours.
2. To understand when image-guided techniques are clinically indicated in the management of patients affected by renal, lung and bone tumours.
3. To consolidate knowledge of clinical results available from the literature.

**16:03 A-247  A. Renal cell carcinoma: when and how can we compete with surgeons**

R.F. Grasso; Rome/IT

Learning Objectives:
1. To understand the current indications for ablation in renal cancer.
2. To learn about when radiofrequency ablation, microwaves ablation and cryo ablation are indicated.
3. To consolidate knowledge of results from personal experience and the literature.

**16:32 A-248  B. Lung tumours: the clinical evidence for percutaneous techniques**

T. de Baère, F. Deschamps, L. Tselikas; Villejuif/FR

Learning Objectives:
1. To understand the indications for percutaneous ablation in primary and metastatic disease.
2. To learn about technical issues.
3. To consolidate knowledge of results from personal experience and the literature.

**17:01 A-249  C. Image-guided therapies for bone tumours**

A. Gangi, Strasbourg/FR

Learning Objectives:
1. To understand how to select bone lesions to be ablated.
2. To learn about technical issues for both palliation and curative aims.
3. To become familiar with clinical results.
Postgraduate Educational Programme

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<thead>
<tr>
<th>16:00–17:30</th>
<th>Room L 1</th>
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<tr>
<td><strong>PC 8b</strong></td>
<td><strong>Imaging in population-based studies</strong></td>
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<tr>
<td>16:00</td>
<td><strong>A-250</strong> Chairman’s introduction</td>
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<tr>
<td>N. Hosten; Greifswald/DE</td>
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<td><strong>Session Objectives:</strong></td>
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<tr>
<td>1. To understand how population imaging studies can generate high-level evidence for radiological methods.</td>
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<td>2. To understand the importance of governance in defining the role of medical specialties in population studies.</td>
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<td>3. To understand radiology’s role in setting ethical standards in population imaging studies.</td>
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<tr>
<td>16:03</td>
<td><strong>A-251</strong> Population imaging for the prediction of neuro-degenerative diseases</td>
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<td>G.P. Krestin; Rotterdam/NL</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To understand the role of population-based imaging studies in predicting outcome.</td>
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<td>2. To present the most relevant imaging biomarkers for predicting neurodegenerative diseases.</td>
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<td>3. To explain the association between genotype and imaging phenotypes in neurodegenerative diseases.</td>
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<td>16:18</td>
<td><strong>A-252</strong> The German National Cohort: population based imaging in a nation-wide multi-centre setting</td>
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<td>F. Bamberg; Tübingen/DE</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To learn about the scientific potential and challenges that whole-body MRI pose to the imaging community in large-scale multi-centric cohort studies.</td>
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<td>2. To understand the rationale and design of the German National Cohort MRI Study.</td>
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<td>3. To appreciate the current state of the data acquisition and post-processing of the German National Cohort MRI Study.</td>
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<td>16:33</td>
<td><strong>A-253</strong> Population-based cardiac imaging</td>
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<td>S. Petersen; London/UK</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To appreciate the opportunities provided by population-based cardiac imaging.</td>
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<td>2. To acknowledge the challenges posed by population-based cardiac imaging.</td>
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<td>3. To discuss first-hand experiences from the UK Biobank - the largest ongoing population-based cardiac imaging project.</td>
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<td>16:48</td>
<td><strong>A-254</strong> The Trauma Cohort: a joint project of the German Röntgen Society and the German Society of Trauma Surgery</td>
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<td>S. Langner; Greifswald/DE</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To understand the rationale and design of the Trauma Cohort.</td>
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<td>2. To appreciate the scientific potential and challenges of a large-scale multi-centric polytrauma imaging study.</td>
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<td>3. To learn the differences between population-based imaging studies of healthy subjects and severely injured patients.</td>
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<td>17:03</td>
<td><strong>A-255</strong> Ethical aspects of population imaging</td>
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<td>R. Schmücker; Münster/DE</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To learn about the diversity of ethical problems occurring in MRI research.</td>
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<td>2. To understand the methodological relevance of the ethics of incidental findings for the validity of population-based studies.</td>
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<td>3. To present some preliminary solutions to the most urgent ethical challenges.</td>
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| 17:18 | Panel discussion: What does the individual gain from population imaging studies? |

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<tr>
<th>16:00–17:30</th>
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<td><strong>Musculoskeletal</strong></td>
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<tr>
<td><strong>RC 810</strong></td>
<td>The ankle and foot</td>
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<td>Moderator: J.L. Bloem; Leiden/NL</td>
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<tr>
<td>16:00</td>
<td><strong>A-256</strong> A. Ankle sprain: patterns of injury</td>
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<td>J.L.M.A. Gielen, P. Van Dyck, J. Veryser; Antwerp/BE</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To learn more about the imaging appearances of soft tissue and osteoarticular injury.</td>
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<td>2. To become familiar with the patterns of bone and soft tissue injury in the ankle and foot.</td>
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<td>16:30</td>
<td><strong>A-257</strong> B. Inflammatory disorders</td>
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<td>R. Lalam; Oswestry/UK</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To learn more about the imaging appearances of soft tissue and osteoarticular inflammation.</td>
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<td>2. To become familiar with imaging findings of specific inflammatory conditions.</td>
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<td>17:00</td>
<td><strong>A-258</strong> C. Tumours and tumour-like lesions</td>
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<td>I.-M. Noebauer-Huhmann; Vienna/AT</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To learn more about the spectrum of intra and para-articular soft tissue tumours, and tumour-like soft tissue lesions.</td>
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<td>2. To become familiar with US and MRI findings of specific soft tissue lesions.</td>
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<tr>
<th>16:00–17:30</th>
<th>Room E2</th>
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<tr>
<td><strong>Special Focus Session</strong></td>
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<tr>
<td><strong>SF 8b</strong></td>
<td>New frontiers in brain tumour imaging</td>
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<td>16:00</td>
<td><strong>A-259</strong> Chairman’s introduction</td>
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<tr>
<td>H.R. Jäger; London/UK</td>
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<td><strong>Session Objectives:</strong></td>
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<tr>
<td>1. To become familiar with recent advances in brain tumour imaging.</td>
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<td>2. To understand the role of structural, physiological and molecular imaging methods.</td>
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<td>3. To learn how these methods contribute to individualised management of brain tumour patients.</td>
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<td>16:05</td>
<td><strong>A-260</strong> Imaging correlates of brain tumour genotypes</td>
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<tr>
<td>M. Smits; Rotterdam/NL</td>
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<td><strong>Learning Objectives:</strong></td>
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<tr>
<td>1. To become familiar with the most relevant molecular and gene abnormalities of glial and other neuroepithelial tumours.</td>
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<td>2. To understand how these molecular and gene abnormalities influence patient outcome and treatment response.</td>
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<tr>
<td>3. To learn about the imaging correlates of the most important molecular and genetic tumour subtypes.</td>
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</table>
A-261 Multi-parametric MR tumour imaging in brain tumour diagnosis and monitoring
R. Boellaard, Amsterdam/NL

Learning Objectives:
1. To become familiar with the use of MR perfusion, MR diffusion imaging and MR spectroscopy in brain tumour imaging.
2. To understand how these methods can add value to structural MR imaging of brain tumours.
3. To learn how multiparametric MR imaging can be used in the differential diagnosis and prediction of treatment response of brain tumours.

A-262 MR/PET in brain tumour diagnosis: the added value of combining structural and molecular imaging
F. Fraioli, London/UK

Learning Objectives:
1. To become familiar with the most important PET tracers currently used in brain tumour imaging.
2. To understand the different aspects of tumour metabolism that can be measured with these tracers.
3. To learn about the advantages and pitfalls of simultaneous acquisition of structural and molecular information in brain tumours using PET MRI.

Panel discussion:
17.20 Modalities and parameters - what do we really need?

A-271 Breast CT
W.A. Kalender, Erlangen/DE

Learning Objectives:
1. To become familiar with previous trials of using CT for breast imaging.
2. To learn about the potential of advanced CT technologies for breast CT.
3. To appreciate that breast CT can be obtained with very high spatial resolution at screening mammography dose levels.

A-270 Contrast-enhanced mammography
C. Dromain, Villejuif/FR

Learning Objectives:
1. To become familiar with the CESM examination technique.
2. To know the clinical performance of CESM in comparison with conventional mammography and MRI.
3. To understand and illustrate major clinical indications.
4. To give an overview of future improvements and developments of CESM.

A-271 Breast CT
WA. Palaver, Erlangen/DE

Learning Objectives:
1. To become familiar with the CESM examination technique.
2. To know the clinical performance of CESM in comparison with conventional mammography and MRI.
3. To understand and illustrate major clinical indications.
4. To give an overview of future improvements and developments of CESM.

Additional sessions on imaging biomarkers and their role in European Medicine Agency (EMA) applications
O. Clément, Paris/FR

Learning Objectives:
1. To learn about the role of clinical validation in imaging biomarkers.
2. To understand how imaging biomarkers may become surrogate endpoints in clinical trials.
3. To become familiar with the requirements of the EMA.

A-266 Introduction to the Quantitative Imaging European Task Force
H.-U. Kauczor, Heidelberg/DE

Learning Objectives:
1. To learn about existing activities in imaging biomarkers.
2. To appreciate the importance of a new European structure for integrated imaging biomarker development.
3. To acknowledge the benefit of imaging biomarkers for radiology.

A-267 Clinical validation of imaging biomarkers and their role in European Medicine Agency (EMA) applications
O. Clément, Paris/FR

Learning Objectives:
1. To learn about the role of clinical validation in imaging biomarkers.
2. To understand how imaging biomarkers may become surrogate endpoints in clinical trials.
3. To become familiar with the requirements of the EMA.

A-268 The role of imaging biomarkers in the EORTC clinical trials
M. Lobbes, Maastricht/NL

Learning Objectives:
1. To become familiar with the tasks and opportunities of the imaging group within the EORTC.
2. To understand how to implement imaging biomarkers in the clinical EORTC trials.

Panel discussion:
17.20 How to strengthen the role of imaging biomarkers in clinical trials
16:55
A-272 Non-contrast MRI
P.A.T. Baltzer; Vienna/AT
Learning Objectives:
1. To become familiar with the current status of unenhanced MRI techniques for detection and classification of breast lesions.
2. To understand possible clinical applications of unenhanced breast MRI.
3. To appreciate the limitations of unenhanced breast MRI.

Panel discussion:
Is there still room for conventional breast imaging?

16:00–17:30 Room D1

E³ - ECR Master Classes (Chest)

E³ 826 Lung cancer staging
Moderator: E. Castañer, Sabadell/ES

16:00
A-273 A. Limitations and perspectives
A. Larici; Rome/IT
Learning Objectives:
1. To consolidate knowledge about lung cancer staging.
2. To understand the radiological limitations: size measurement, multifocal disease, lymphangitic carcinomatosis, etc.
3. To appreciate mediastinal lymph node staging as a multidisciplinary process.

16:30
A-274 B. CT phenotypes of adenocarcinoma
M. Das; Maastricht/NL
Learning Objectives:
1. To know about the implications of the new lung adenocarcinoma classification.
2. To understand the correlation between CT phenotypes and the new IASLC classification.

17:00
A-275 C. Functional imaging of lung cancer heterogeneity
O.L. Sedlaczek; Heidelberg/DE
Learning Objectives:
1. To get acquainted with normal and abnormal findings.
2. To understand the patterns of nodal involvement.
3. To learn about technique of fine needle aspiration.

16:00–17:30 Room D2

Head and Neck

RC 808 Head and neck imaging: don't sell your ultrasound yet!
Moderator: S.S. Özbek, Izmir/TR

16:00
A-276 A. Salivary gland imaging with ultrasound
N. Gritzmann; Vienna/AT
Learning Objectives:
1. To understand the limitations of clinical examination.
2. To learn about the diagnostic approach to salivary glands.
3. To appreciate how to differentiate salivary gland pathology.

16:30
A-277 B. Masses of the soft parts of the neck
S. Robinson; Vienna/AT
Learning Objectives:
1. To become familiar with cervical ultrasound anatomy.
2. To learn about benign neck masses.
3. To understand the value of US in oncologic imaging.

17:00
A-278 C. Lymph nodes: differential diagnosis and fine-needle aspiration
R. Maroldi; Brescia/IT
Learning Objectives:
1. To get acquainted with normal and abnormal findings.
2. To understand the patterns of nodal involvement.
3. To learn about technique of fine needle aspiration.

Panel discussion:
How to avoid mistakes using imaging modalities in other kidney and adrenal diseases?
**Thursday**

**16:00–17:30  Room K**

**E³ - ECR Academies:**

**Hybrid Imaging (basic)**

**E³ 818  Essentials of hybrid imaging**

Moderator: R. McDermott, Dublin/IE

**Learning Objectives:**
1. To learn about the indications for endovascular treatment of EVAR endoleaks.
2. To appreciate the different interventional techniques.
3. To learn about the pros and cons of each technique.

**Panel discussion:**

**What does the individual gain from population imaging studies?**

**16:00–17:30  Room MB 1**

**Vascular**

**RC 815  EVAR endoleaks: imaging and management**

Moderator: F. Funovics, Vienna/AT

**Learning Objectives:**
1. To become familiar with the role of nuclear imaging techniques in the detection of heart failure and its potential causes.
2. To learn about nuclear imaging techniques in the diagnosis of heart failure and its causes.
3. To become familiar with the role of nuclear imaging for diagnosis and prognosis in heart failure.

**Panel discussion:**

**What is the preferred comprehensive imaging test in heart failure?**

**16:00–17:30  Room MB 2**

**Cardiac**

**RC 803  Imaging of heart failure**

**A-288  C. Endovascular management**

Moderator: M. Funovics, Vienna/AT

**Learning Objectives:**
1. To learn about the indications for endovascular treatment of EVAR endoleaks.
2. To appreciate the different interventional techniques.
3. To learn about the pros and cons of each technique.

**A-289  Chairman’s introduction**

M. Gutberlet, Leipzig/DE

**A-290  A. Current ESC and AHA guidelines: how to choose imaging techniques in heart failure patients?**

J.T. Ortiz-Perez, Barcelona/ES

**Learning Objectives:**
1. To become familiar with the diagnostic algorithm of heart failure according to current guidelines.
2. To learn the strengths and weaknesses of the different imaging techniques in heart failure patients.
3. To discuss the role of imaging techniques to guide clinicians in diagnosis, treatment and follow-up.

**A-291  B. Differentiating the causes for heart failure: is MRI the indisputable gold standard?**

T. Leiner, Utrecht/NL

**Learning Objectives:**
1. To learn about MRI techniques to evaluate heart failure and its potential causes.
2. To learn a practical approach for differentiating the causes of heart failure using MRI.
3. To become familiar with the role of MRI in the clinical management and prognosis.

**A-292  C. SPECT as an alternative imaging technique**

F. Bengel, F. Caobelli, Hannover/DE

**Learning Objectives:**
1. To learn about nuclear imaging techniques in the detection of heart failure.
2. To appreciate imaging findings in the diagnosis of heart failure and its causes.
3. To become familiar with the role of nuclear imaging for diagnosis and prognosis in heart failure.

**Panel discussion:**

**What is the preferred comprehensive imaging test in heart failure?**
### Postgraduate Educational Programme

#### 16:00–17:30 Room MB 3

**Interventional Radiology**

**RC 809  Current trends in transarterial chemoembolisation (TACE) and radioembolisation for HCC**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
<th>Location</th>
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<tbody>
<tr>
<td>16:00</td>
<td>A-293</td>
<td>Chairman’s introduction</td>
<td>T.K. Helmberger, Munich/DE</td>
<td>Room MB 3</td>
</tr>
<tr>
<td>16:05</td>
<td>A-294</td>
<td>A. Imaging in therapy planning and follow-up</td>
<td>V. Vilgrain, Clichy/France; M. Burrel, Barcelona/Spain</td>
<td>Room MB 3</td>
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<td>Learning Objectives:</td>
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<tr>
<td></td>
<td></td>
<td>1. To learn how imaging influences the selection of the embolisation strategy in HCC.</td>
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<td>2. To learn about standard and advanced imaging techniques in the follow-up after treatment.</td>
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<td>3. To learn how imaging may guide the decision about re-treatment.</td>
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<tr>
<td>16:28</td>
<td>A-295</td>
<td>B. TACE and TAE for HCC: new agents, new schedules, new combinations</td>
<td>R. Lencioni, Pisa/Italy</td>
<td>Room MB 3</td>
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<td>Learning Objectives:</td>
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<tr>
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<td></td>
<td>1. To learn about the results of new treatment schedules and treatment combinations.</td>
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<td>2. To learn about the rationale of recent and ongoing trials.</td>
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<td>3. To learn about clinical results and possible further developments.</td>
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<td>Learning Objectives:</td>
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<tr>
<td></td>
<td></td>
<td>1. To learn about critical aspects of techniques and dosimetry.</td>
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<td>2. To become familiar with ongoing trials and guidelines for treatment.</td>
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<td>3. To understand the relative role of TACE/TAE and radioembolisation in HCC.</td>
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<td>17:14</td>
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<td>Panel discussion:</td>
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<td>The intermediate HCC patient: how can we stratify patients and allocate them to different therapies?</td>
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#### Joint Course of ESR and RSNA (Radiological Society of North America): Emergency Radiology

**MC 828  General principles: paediatric and ENT emergencies**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
<th>Location</th>
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<tbody>
<tr>
<td>16:00</td>
<td>A-297</td>
<td>A. General principles</td>
<td>U. Linsenmaier, Munich/DE</td>
<td>Room MB 4</td>
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<td>Learning Objectives:</td>
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<tr>
<td></td>
<td></td>
<td>1. To learn about general principles of diagnostic imaging in emergency radiology in traumatic and non-traumatic emergencies.</td>
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<td>2. To understand the etiology, background and management of common radiological emergencies.</td>
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<td>3. To appreciate the role, indications and protocols for US, CR, MDCT in modern emergency radiology.</td>
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### E³ - ECR Academies: Diagnostic Urogenital Radiology

**E³ 820  Upper and lower urinary tract**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>16:00</td>
<td>A-300</td>
<td>A. CTU and MRU of the upper urinary tract</td>
<td>N.C. Cowan, Portsmouth/UK</td>
<td>Room MB 5</td>
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<td>Learning Objectives:</td>
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<tr>
<td></td>
<td></td>
<td>1. To learn about the technical requirements of CTU and MRU.</td>
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<td>2. To learn about indications, diagnostic accuracy, diagnostic strategies, advantages and limitations of CTU and MRU.</td>
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<td>3. To understand the normal imaging findings.</td>
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<td>16:30</td>
<td>A-301</td>
<td>B. Imaging of kidney and ureter</td>
<td>M.A. Cova, Trieste/Italy</td>
<td>Room MB 5</td>
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<td>Learning Objectives:</td>
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<tr>
<td></td>
<td></td>
<td>1. To learn about the typical signs of urothelial carcinoma in the kidney and ureter, including rare manifestations.</td>
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<td>2. To learn about the most frequent differential diagnoses.</td>
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<td>3. To understand the potential pitfalls.</td>
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<tr>
<td>17:00</td>
<td>A-302</td>
<td>C. Imaging of bladder and urethra</td>
<td>T.A. El-Diasty, Mansoura/Egypt</td>
<td>Room MB 5</td>
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<td>Learning Objectives:</td>
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<tr>
<td></td>
<td></td>
<td>1. To become familiar with various diseases of the bladder and urethra.</td>
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<td>2. To learn about the typical imaging findings of malignant and nonmalignant disease.</td>
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<td>3. To learn about the most frequent differential diagnoses.</td>
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### E³ - ECR Academies: Interactive Teaching Sessions

#### E³ 921  Thoracic changes after treatment

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
<th>Chairs</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>A-303</td>
<td>A. Drug-related conditions</td>
<td>T. Franquet, Barcelona/ES</td>
<td>Room A</td>
</tr>
</tbody>
</table>
|       |         | Learning Objectives:  
|       |         | 1. To understand pulmonary changes related to treatment.  
|       |         | 2. To understand the mechanisms of injury to the lung in drug-related conditions. | |
| 09:15 | A-304   | B. Device-related conditions | G.R. Ferretti, Grenoble/FR | |
|       |         | Learning Objectives:  
|       |         | 1. To understand changes related to lines and wires in ICU patients.  
|       |         | 2. To learn about findings related to surgery. | |

### Abdominal Viscera

#### RC 901  Technical advances in liver and pancreatic imaging

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
<th>Chairs</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>A-305</td>
<td>A. CEUS and elastography</td>
<td>G. Mostbeck, Vienna/AT</td>
<td>Room B</td>
</tr>
</tbody>
</table>
|       |         | Learning Objectives:  
|       |         | 1. To become familiar with novel technical applications that are useful in liver and pancreatic diseases.  
|       |         | 2. To understand the underlying pathophysiologic processes.  
|       |         | 3. To learn about the strengths and limitations of CEUS compared with CT and MRI in the study of focal liver lesions and pancreatic diseases. | |
| 09:00 | A-306   | B. MRI: diffusion, perfusion and elastography | B. van Beers, Clichy/FR | |
|       |         | Learning Objectives:  
|       |         | 1. To learn about the technical requirements necessary for diffusion-weighted MRI and how to avoid artefacts.  
|       |         | 2. To learn about the technical requirements for CT and MRI perfusion.  
|       |         | 3. To become familiar with imaging biomarkers useful in tumour evaluation. | |
|       |         | Learning Objectives:  
|       |         | 1. To learn about the principals and recent technical advances in the use of liver-specific contrast agents for liver imaging.  
|       |         | 2. To appreciate the similarities and differences between the classes of contrast agents.  
|       |         | 3. To become familiar with indications of liver-specific contrast in biliary diseases.  
|       |         | 4. To learn about future directions of MRI contrast agents. | |

### Special Focus Session

#### SF 9a  Evaluation of treatment response in head and neck cancer

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
<th>Chairs</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>A-308</td>
<td>Chairman’s introduction</td>
<td>M. Becker, Geneva/CH</td>
<td>Room C</td>
</tr>
</tbody>
</table>
|       |         | Session Objectives:  
|       |         | 1. To become familiar with treatment options in head and neck cancer.  
|       |         | 2. To understand the concept of personalised treatment based on morphologic, functional and molecular imaging findings.  
|       |         | 3. To review the key imaging findings affecting treatment choice in head and neck cancer.  
|       |         | 4. To learn which CT, MRI and PET/CT findings allow for correct assessment of treatment response.  
|       |         | 5. To learn how to report the relevant imaging findings in a structured fashion. | |
| 08:35 | A-309   | Prognostic factors influencing treatment choice and treatment response | R. Hermans, Leuven/BE | |
|       |         | Learning Objectives:  
|       |         | 1. To become familiar with key imaging issues affecting treatment choice in head and neck cancer.  
|       |         | 2. To understand which main imaging findings affect the outcome of radiation therapy.  
|       |         | 3. To learn how to report the findings and which measurements to perform in clinical routine. | |
| 09:00 | A-310   | Evaluation of early treatment response: can MRI techniques make a difference? | H.C. Thoeny, Berne/CH | |
|       |         | Learning Objectives:  
|       |         | 1. To learn what additional information is acquired by MRI with diffusion-weighted and perfusion sequences.  
|       |         | 2. To appreciate the clinical importance of this examination in the early follow-up of head and neck cancer patients.  
|       |         | 3. To learn how to interpret results and how to avoid mistakes. | |
| 09:25 | A-311   | Post treatment imaging: is PET a reliable indicator for tumour viability? | S. Bisdas, Tübingen/DE | |
|       |         | Learning Objectives:  
|       |         | 1. To understand what additional information is provided by PET/CT in the post-treatment setting.  
|       |         | 2. To appreciate the clinical relevance of PET/CT and its effect on patient management.  
|       |         | 3. To learn how to interpret PET/CT examinations and how to avoid interpretation pitfalls. | |

Panel discussion: Can we provide accurate information for the evaluation of treatment response?
### ESR Research in Education and Training Session

**Research for trainees made easy: critical reading of the literature**  
*Moderator: J. Hodler, Zurich/CH*

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<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tr>
<td>08:30</td>
<td>A-312 <em>Introduction</em> J. Hodler, Zurich/CH</td>
<td>Room M</td>
</tr>
</tbody>
</table>
| 08:35 | A-313 *Overwhelmed by the available information? How to organise yourself*  
|       | P. Rodríguez; Madrid/ES                                                 |            |
|       | **Learning Objectives:**  
|       | 1. To learn how to cope with the overwhelming amount of available information.  
|       | 2. To become familiar with resources adequate for trainees.  
|       | 3. To learn how colleagues with similar experience levels assess literature. |            |
| 08:55 | A-314 *Errors you should detect when reading scientific papers*  
|       | A.K. Dixon; Cambridge/UK                                               |            |
|       | **Learning Objectives:**  
|       | 1. To learn about typical errors in study design.  
|       | 2. To recognise such errors while reading publications.  
|       | 3. To understand the meaning and severity of scientific fraud.          |            |
| 09:15 | A-315 *Clinical relevance of publications: influence on outcome*  
|       | D.J. Wilson; Oxford/UK                                                 |            |
|       | **Learning Objectives:**  
|       | 1. To recognise the clinical relevance of publications.  
|       | 2. To understand characteristics of clinically relevant papers.  
|       | 3. To be able to plan clinically relevant scientific evaluations.       |            |
| 09:35 | A-316 *Do not be afraid of basic science papers*  
|       | N. Grenier, Bordeaux/FR                                                 |            |
|       | **Learning Objectives:**  
|       | 1. To appreciate the role of basic research in radiology.  
|       | 2. To become familiar with typical methodology in basic research.  
|       | 3. To understand differences and similarities between clinical and basic research. |            |
| 09:55 | A-317 *Summary* J. Hodler, Zurich/CH                                     |            |

### E³ - ECR Academies: Image-Guided Interventions in Oncology

**E³ 919 Colorectal liver metastases: the emerging role of interventional radiologists in oncology**  
*08:30 A-318 Chairman’s introduction P.L. Pereira, Heilbronn/DE*

**Session Objectives:**  
1. To become familiar with the several image-guided interventions in the multidisciplinary clinical management of patients affected by liver metastases from colorectal cancer.  
2. To understand the role of interventional radiology in the treatment algorithm for metastases from colorectal cancer.  
3. To learn about the clinical evidence for image-guided interventions in this field.

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| 08:33 | A-319 *A. Tumour ablation: when and how in a modern oncological setting*  
|       | V. Válek; Brno/CZ                                                      |            |
|       | **Learning Objectives:**  
|       | 1. To understand the role of percutaneous ablation in clinical practice.  
|       | 2. To learn about essential technical issues.  
|       | 3. To consolidate the knowledge of clinical results.                   |            |
| 09:02 | A-320 *B. Intra-arterial drug delivery: the state of art*  
|       | M. Bezzi; Rome/IT                                                     |            |
|       | **Learning Objectives:**  
|       | 1. To become familiar with the current indications for intra-arterial chemotherapy in liver metastases.  
|       | 2. To learn about how to implant a hepatic intra-arterial infusion system.  
|       | 3. To learn about results coming from personal experience and from the literature. |            |
| 09:31 | A-321 *C. Intra-arterial radiation delivery - when and how: the clinical evidence*  
|       | T.K. Helmberger; Munich/DE                                             |            |
|       | **Learning Objectives:**  
|       | 1. To become familiar with the main indications for TARE/TACE in liver metastatic disease.  
|       | 2. To learn about techniques for both intra-arterial treatments.  
|       | 3. To consolidate knowledge of results from the literature.            |            |

### Professional Challenges Session

**PC 9 Personalised medicine in radiology**  
*08:30 A-322 Chairman’s introduction R. Manfredi, Verona/IT*

**Session Objectives:**  
1. To understand the concept of personalised medicine (PM).  
2. To learn about the role of imaging in PM.

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<th>Location</th>
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</table>
| 08:35 | A-323 *Imaging is everywhere in personalised medicine*  
|       | A. van der Lugt; Rotterdam/NL                                         |            |
|       | **Learning Objectives:**  
|       | 1. To understand the concept of personalised medicine.  
|       | 2. To appreciate the role of imaging in personalised medicine.  
|       | 3. To understand why personalised medicine cannot flourish without imaging (and radiologists). |            |
08:55  A-324  Personalised prevention: population-based imaging and image-based screening
   F. Bamberg, Tubingen/DE
   Learning Objectives:
   1. To understand the concept of screening.
   2. To become familiar with population-based imaging.
   3. To understand how imaging can improve personalised prevention.

09:15  A-325  Integrated diagnostics: towards one diagnostic department
   A. Cuocolo, C. Nappi, E. Zampella, Naples/IT
   Learning Objectives:
   1. To understand the concept of biomarkers and their role in personalised medicine.
   2. To appreciate the differences and synergies between blood- and tissue-based biomarkers and imaging biomarkers.
   3. To learn from other diagnostic departments about accuracy and validation of biomarkers.

09:35  A-326  Interventional radiology: a paradigm for personalised medicine
   S.N. Gooden, Minneapolis/US
   Learning Objectives:
   1. To understand how functional imaging can improve tissue sampling.
   2. To appreciate the personalised approach in interventional radiology.
   3. To become familiar with targeted therapies in interventional radiology.

Panel discussion:

09:55  How can we best accelerate the adoption of personalised medicine in radiological practice?

08:30–10:00  Room E2

New Horizons Session

NH 9  Image-guided interventions of the prostate

08:30  A-327  Chairman’s introduction: defining the target
   A. R. Pacharg, London/UK
   Session Objectives:
   1. To introduce the concept of the index prostatic cancer lesion as a valid target that determines patient therapy and outcomes.
   2. To illustrate the concordance between the MRI-depicted and histologically defined intraprostatic target.

08:35  A-328  MR-targeted prostate biopsy
   J.L. Potters, Nijmegen/NL
   Learning Objectives:
   1. To understand how functional imaging can improve tissue sampling.
   2. To discuss patients selection and appreciate how MRI-targeted biopsy results affect management of patients with positive and negative results.

08:53  A-329  MR-US fusion prostate biopsy
   J.J. Fütterer, Nijmegen/NL
   F. Ermacora, C. Escourrou, N.B. Delongchamps, Paris/FR
   Learning Objectives:
   1. To understand the pros and cons of different US-guided biopsy approaches.
   2. To discuss how to perform US-targeted biopsies.
   3. To discuss patient selection and appreciate how US-targeted biopsies affect management of patients with positive and negative results.

09:11  A-330  Image-guided tumour ablations
   H.U. Ahmed, London/UK
   Learning Objectives:
   1. To present the pros and cons of different physical/chemical methods that are used for focal therapy of prostate cancer.
   2. To discuss patient selection criteria and show how tumour/prostate gland treatments are undertaken in practice.
   3. To present the oncologic results of image-guided prostate tumour ablations.

09:31  A-331  Prostate artery embolisation (PAE) for benign hypertrophy
   F.C. Carnevale, Sao Paolo/BR
   Learning Objectives:
   1. To understand the pros and cons of PAE in relation to other methods for treating benign hyperplasia.
   2. To discuss patient selection criteria and show how PAE is undertaken.
   3. To review the literature on complications, efficacy outcomes of urinary function, symptoms and quality of life and on Long-term results.

Panel discussion:

09:51  Do organ-sparing prostatic treatments make sense?

08:30–10:00  Room F1

Oncologic Imaging

RC 916  New insights in bone tumour imaging

08:30  A-332  Chairman’s introduction
   D. Vanel, Bologna/IT
   Session Objectives:
   1. To become familiar with the appearances and treatment strategies in bone tumours.
   2. To learn about the role of current imaging techniques in management of bone tumours.

08:35  A-333  A. New insights in treatment-associated changes in patients with bone tumours
   C.R. Krestan, Vienna/AU
   Learning Objectives:
   1. To understand treatment strategies in bone tumours.
   2. To learn how to cooperate with physicist and technicians in optimising MR protocol.
   3. To analyse clinical MR studies.

08:58  A-334  B. New insights in staging and restaging musculoskeletal tumours introduction
   J.L. Bloom, Leiden/NL
   Learning Objectives:
   1. To learn how to cooperate with physicist and technicians in optimising MR protocol.
   2. To understand the role of MR imaging in staging and restaging.
   3. To analyse clinical MR studies.

09:21  A-335  C. New insights in hybrid imaging for multiple myeloma
   S. Goldberg, Jerusalem/IL
   F. Sommer, Basle/CH
   Learning Objectives:
   1. To understand the current concepts of evaluation of multiple myeloma with FDG PET/CT and MR/PET.
   2. To understand the role of diffusion-weighted MR imaging in patients with multiple myeloma.

Panel discussion:

09:44  The future of bone tumour imaging
### Multidisciplinary Session

**MS 9**  
Management of rectal cancer: a paradigm shift

**08:30**  
**A-336** Chairman’s introduction  
R.G.H. Boots-Tan, Maastricht/NL  
**Session Objectives:**  
1. To learn about new organ-saving treatments in rectal cancer and the clinical background.  
2. To understand the new role of radiologists within and the questions from the multidisciplinary team during the selection and follow-up of these patients.  
3. To learn how radiologists can answer the relevant clinical questions and which are the most accurate imaging methods.

**08:35**  
**A-337** Organ-saving treatment: what does the surgeon want to know?  
G.L. Beets; Maastricht/NL  
**Learning Objectives:**  
1. To learn about new organ-saving treatments in rectal cancer and the clinical background.  
2. To understand the pros and cons of organ-saving treatment.  
3. To know how to select patients and understand the factors relevant for clinical decision making.  
4. To understand what the surgeon wants to know from radiologists during the selection and follow-up of these patients.

**08:55**  
**A-338** Organ-saving treatment: what does the radiation oncologist want to know?  
V. Valentini; Rome/IT  
**Learning Objectives:**  
1. To learn about pathways of rectal tumour and nodal spread.  
2. To understand what radiation oncologists will do with the anatomical information from imaging and how it will influence the radiation fields.  
3. To become familiar with various preoperative radiation treatment schedules with or without chemotherapy.  
4. To know how radiation treatment can improve the number of patients with complete response and whom can be offered an organ-saving treatment.

**09:15**  
**A-339** Organ-saving treatment: what is the radiologist’s role?  
R.G.H. Boots-Tan, Maastricht/NL  
**Learning Objectives:**  
1. To understand the role of radiologists in the multidisciplinary management of patients both during the selection and follow-up for organ-saving treatment.  
2. To learn how radiologists can answer the relevant clinical questions.  
3. To know the imaging tools and their capacities for identifying viable disease in bowel wall and (extra) mesorectal nodes.  
4. To become familiar with the imaging features and pitfalls in interpretation.

**Interactive case discussion:**  
What do clinicians expect from us in organ-saving treatment management?

### Special Focus Session

**SF 9b**  
The forgotten joints

**08:30**  
**A-340** Chairman’s introduction  
M. Padrón, Madrid/ES  
**Session Objectives:**  
1. To become familiar with the usual patterns of disease in these joints.  
2. To learn about the role of imaging in the different disease processes.  
3. To understand how imaging can assist in the management of these lesions.

**08:35**  
**A-341** Fingers and toes: little joints, big trouble?  
A. Klauser; Innsbruck/AT  
**Learning Objectives:**  
1. To understand the imaging strategies available for diagnosis.  
2. To differentiate inflammatory, traumatic and degenerative changes.  
3. To learn about the management of these injuries.

**09:00**  
**A-342** The symphysis pubis  
C.W.A. Pfirrmann, Zurich/CH  
**Learning Objectives:**  
1. To learn the imaging anatomy of the structures around the symphysis pubis.  
2. To be able to set up an MR imaging protocol for the assessment of the symphysis pubis.  
3. To understand the pattern of disease around the symphysis pubis.

**09:25**  
**A-343** The acromioclavicular joint: patterns of injury  
D.A. Barron; Leeds/UK  
**Learning Objectives:**  
1. To become familiar with the usual mechanisms of injury.  
2. To understand the imaging strategies available for diagnosis.  
3. To become familiar with the imaging findings and classification of acromioclavicular joint injury.  
4. To learn about the management of these injuries.

**Panel discussion:**  
Are these topics never to be forgotten?

### Radiographers

**RC 914**  
Enhancing patient safety culture in radiology

**08:30**  
**A-344** Chairmen’s introduction  
P. Bezzina, Msida/MT; L. Donoso, Barcelona/ES  
**Session Objectives:**  
1. To understand the importance of patient safety in radiology.  
2. To learn the fundamentals of implementing a patient safety culture.  
3. To appreciate the importance of teamwork for developing a safe radiology department.

**08:35**  
**A-345** A. Patient safety culture: the importance of EU clinical audit guidelines  
S. McFadden, Newtownabbey/UK  
**Learning Objectives:**  
1. To learn about the importance of clinical audit under the new EU Basic Safety Standards.  
2. To comprehend the role of clinical audit in radiology practice.  
3. To understand how to facilitate clinical audit locally and nationally.
**A-346** B. Quality assurance of radiology equipment:
the first step to creating a safe working environment
J. Santos; Coimbra/PT

Learning Objectives:
1. To become familiar with international recommendations and guidelines for radiology quality control procedures.
2. To be aware of the importance of the radiographer in quality assurance of radiology equipment.
3. To recognise the need for quality assurance in systematic evaluation as a tool for promoting radiation safety.

**A-347** C. From medical imaging referral to final outcome:
a critical analysis of the process
D. Remedios; Harrow/UK

Learning Objectives:
1. To understand the requirements for justification.
2. To be aware of the need for appropriate imaging.
3. To recognise the barriers to appropriate imaging.
4. To appreciate the strategies for improvement.

Panel discussion:

**A-348** Chairman's introduction
P. Sharp; Aberdeen/UK

Session Objectives:
1. To become familiar with the principles of multi-energy imaging.
2. To understand the applications of multi-energy CT.
3. To appreciate the advantages and limitations of multi-energy imaging.

**A-349** Image-based material decomposition with energy-selective detectors in multi-energy CT:
a review
M. Kachelrieß; Heidelberg/DE

Learning Objectives:
1. To understand how multi-energy CT can provide material identification and differentiation.
2. To understand the effect of detector choice on material identification.
3. To understand the issues of radiation dose.

**A-350** Novel applications of multi-energy CT
J. Sosna; Jerusalem/IL

Learning Objectives:
1. To become familiar with the concept of virtual non-enhanced images.
2. To explore image segmentation techniques.
3. To learn about image artefacts.

**A-351** New frontiers in CT: functional and multi-energy imaging
A. Persson; Linköping/SE

Learning Objectives:
1. To appreciate the advantages and limitations of multi-energy CT.
2. To learn about functional imaging in CT.
3. To understand the problems of radiation dose in these new techniques.

**E³ - ECR Academies: Hybrid Imaging (basic)**

**E³ 918** Indications for hybrid imaging in oncology
Moderator: T.H. Helbich, Vienna/AT

08:30 A-352 A. Oncology
N. Schwenzer; Tübingen/DE

Learning Objectives:
1. To appreciate indications for PET/CT and MR/PET in oncology.
2. To become familiar with FDG- and non-FDG-indications in oncology.
3. To understand where MR/PET may be advantageous over PET/CT.

09:00 A-353 B. Neurology
A. Buck; Zurich/CH

Learning Objectives:
1. To learn about indications for PET/CT and MR/PET in neurology.
2. To appreciate the different radionuclides available for neurological imaging.
3. To understand where MR/PET may be beneficial over MRI alone.

09:30 A-354 C. Cardiology
S.G. Nekolla; Munich/DE

Learning Objectives:
1. To learn about indications for SPECT/CT and PET/CT in cardiology.
2. To appreciate radionuclides available for cardiac hybrid imaging.
3. To understand potential indications for MR/PET.

**E³ - ECR Master Classes (Vascular)**

**E³ 926c** Uterine and prostate embolisation
Moderator: T. Sabharwal, London/UK

08:30 A-355 A. Symptomatic uterine fibroids
J.-P. Pelage; Caen/FR

Learning Objectives:
1. To understand clinical indications and contraindications for UAE embolisation.
2. To become familiar with the technique of uterine artery embolisation.
3. To learn about complications and outcomes.

09:00 A-356 B. Benign hypertrophy of the prostate
H. Rio Tinto; Lisbon/PT

Learning Objectives:
1. To understand clinical indications and contraindications for prostate artery embolisation.
2. To become familiar with the technique of prostate artery embolisation.
3. To learn about complications and outcomes.

09:30 A-357 C. Post-partum haemorrhage (PPH)
T.J. Kroencke; Augsburg/DE

Learning Objectives:
1. To become familiar with the clinical background of PPH.
2. To learn about different endovascular techniques to treat PPH.
3. To learn about complications and outcomes.
08:30–10:00 Room MB 2

**E³ - ECR Master Classes (Paediatric)**

**E³ 926a Advances in paediatric imaging**  
Moderator: P. Tomà; Rome/IT

08:30  
A-358 **A. The CNS**  
J.F. Schneider; Basle/CH  
Learning Objectives:  
1. To become familiar with advanced imaging protocols.  
2. To understand how best to use DTI, fMRI and spectroscopy.  
3. To be able to recognise age-related normal patterns from disease.

09:00  
A-359 **B. The MSK - infectious inflammatory disorders**  
M. Alison, A. Tanase, A. Rega, L. Cardoen, G. Sebag; Paris/FR  
Learning Objectives:  
1. To become familiar with the complementary role of US, bone scan and MRI.  
2. To learn about optimised imaging protocols.  
3. To be able to differentiate age-related normal patterns from disease.

09:30  
A-360 **C. The abdomen**  
M. Raissaki; Iraklion/GR  
Learning Objectives:  
1. To become familiar with advanced imaging protocols.  
2. To understand how best to use MR enterography and MR urography.  
3. To understand the complementary role of high resolution ultrasonography and MRI in the investigation of the paediatric abdomen.

08:30–10:00 Room MB 3

**E³ - ECR Master Classes (Interventional Radiology)**

**E³ 926b The leading role of interventional radiology in a major trauma centre**

08:30  
A-361 **Chairman’s introduction: logistics and imaging of trauma: what do we really need?**  
A.-M. Belli; London/UK

08:39  
A-362 **A. Chest trauma**  
J. Lammer; Vienna/AT  
Learning Objectives:  
1. To learn about the importance of selecting the appropriate imaging technique to allow for the detection of arterial involvement in chest trauma patients.  
2. To understand the most important information urgently needed for treatment decisions and planning.  
3. To learn about basic and advanced techniques in the management of chest trauma and deceleration injuries.

09:06  
A-363 **B. Upper abdominal trauma**  
O.M. van Delden; Amsterdam/NL  
Learning Objectives:  
1. To be able to take part in decision making and to determine which cases deserve management by interventional radiology.  
2. To learn about indications and techniques for endovascular treatment of traumatic abdominal haemorrhage.  
3. To learn about results, the failures and complications of endovascular treatment of traumatic abdominal haemorrhage.

09:33  
A-364 **C. Pelvic trauma: not only arteries**  
R. Bale; Innsbruck/AT  
Learning Objectives:  
1. To learn the appropriate diagnostic imaging techniques and protocols in major pelvic trauma and how to modify them according to clinical requirements.  
2. To learn about results, the failures and complications of endovascular treatment of traumatic pelvic haemorrhage.  
3. To learn about non-endovascular techniques that can be used in pelvic trauma to deal with pelvic bone and genitourinary injuries.

08:30–10:00 Room MB 4

**Emergency Radiology**

**RC 917 Acute pain: your friend and enemy in emergency radiology**

08:30  
A-365 **Chairman’s introduction: patients with acute pain - management and therapeutic pathways**  
J. Walecki; Warsaw/PL

08:35  
A-366 **A. Head**  
P.C. Maly Sundgren; Lund/SE  
Learning Objectives:  
1. To be familiar with common clinical conditions resulting in acute headache.  
2. To understand which additional data influence on choosing the proper imaging modality.  
3. To learn typical imaging findings in the most common clinical scenarios.

08:59  
A-367 **B. Chest**  
J.E. Wildberger, S.C.A.M. Bekkers; Maastricht/NL  
Learning Objectives:  
1. To be familiar with common clinical conditions resulting with acute pain in chest.  
2. To understand which additional data influence on choosing the proper imaging modality.  
3. To learn typical imaging findings in patient with acute chest pain.

09:23  
A-368 **C. Abdomen**  
R. Basilico; Chieti/IT  
Learning Objectives:  
1. To be familiar with common clinical conditions resulting in acute abdominal pain.  
2. To know which clinical information influence the choice of the best suited imaging modality.  
3. To learn typical and atypical imaging findings in patients with acute abdomen.

Panel discussion:  
09:47  
**Where does radiology fit in the pathway?**
08:30–10:00 Room MB 5

E³ - ECR Academies:
Diagnostic Urogenital Radiology

E³ 920 Gynaecology
Moderator: T.M. Cunha, Lisbon/PT

08:30 A-369 A. MR imaging techniques and normal anatomy of the female pelvis
C.S. Balleyguier, S. Canale, E. Zareski; Villejuif/FR

Learning Objectives:
1. To learn about the different MR protocols according to the clinical question.
2. To become familiar with normal imaging findings of the female pelvis.
3. To become familiar with potential pitfalls.

09:00 A-370 B. Staging of cervical cancer
R. Forstner; Salzburg/AT

Learning Objectives:
1. To learn about the MR appearance of cervical cancer, including mimics.
2. To become familiar with the spread of disease.
3. To understand the impact of imaging on therapeutic decision making.

09:30 A-371 C. Differential diagnoses of adnexal masses
S. Swift; Leeds/UK

Learning Objectives:
1. To understand to identify the origin of the suspicious adnexal mass.
2. To learn about how to differentiate benign from malignant adnexal masses, also applying functional techniques.
3. To understand to differentiate between benign surgical and non-surgical lesions.

10:30–12:00 Room A

E³ - ECR Academies:
Interactive Teaching Sessions

E³ 1021 Head and neck cancer after treatment: what you need to know

10:30 A-372 A. Imaging after surgical treatment
M. Lell; Erlangen/DE

Learning Objectives:
1. To become familiar with the different surgical techniques.
2. To become familiar with the imaging findings after surgery.

11:15 A-373 B. Imaging after radiotherapy/chemotherapy
J. Beale; London/UK

Learning Objectives:
1. To become familiar with common findings after medically treated head and neck tumours.
2. To become familiar with changes after radiotherapy for head and neck tumours.

10:30–12:00 Room B

ESR meets Germany

EM 1 Tradition goes digital: getting ready for the future
Welcome by the ESR President
L. Bonomo; Rome/IT

10:30 A-374 Introduction
N. Hosten; Greifswald/DE

Session Objectives:
1. To present landmark projects established by Deutsche Röntgengesellschaft.
2. To show how landmark projects can enhance the standing of a national society in a competitive environment.
3. To discuss ideas for these and similar projects.

10:35 A-375 State-of-the-art teaching in German radiology: Akademie online
M.G. Mack1, F. Mayer2, A. Aschoff3, M. Uder4; 1 Munich/DE, 2 Osnabrück/DE, 3 Kempten/DE, 4 Erlangen/DE

Learning Objectives:
1. To learn about the concept of an internet-based teaching platform.
2. To understand the potential and risks of web-based teaching and education.
3. To appreciate the improvement in flexibility of course delivery and the reduction in education costs.

11:03 A-376 Interlude I: Radiation protection: the concept of ‘justifying indication’
R.W.R. Loose; Nuernberg/DE

Learning Objectives:
1. To learn about the concept of justifying radiological examinations and interventions.
2. To understand the level of justification and associated radiation risks.
3. To understand the impact of the new European Basic Safety Standards (EU-BSS).

11:23 A-377 Population-based MRI: SHIP (study of health in Pomerania) and the national cohort
K. Hegenscheid; Greifswald/DE

Learning Objectives:
1. To present the objectives, concepts, and infrastructure of population-based imaging studies in Germany.
2. To learn about the potential of population-based versus clinical imaging research.
3. To understand special ethical implications of population-based imaging.

11:43 A-378 Interlude II: The Röntgenhaus: Wilhelm Conrad Röntgen’s birthplace
B. Lewerich; Berlin/DE

Learning Objectives:
1. To learn about the history of the 250-year-old house where W.C. Roentgen was born.
2. To appreciate the importance of scientific landmarks or creating enduring public and political interest.
3. To invite and motivate radiologists to support the activities of the Röntgen House Foundation.
11:31
A-379 MRI-PET: A new modality for clinical imaging
C.D. Claussen, N. Schwenzer; Tübingen/DE
Learning Objectives:
1. To understand the technical requirements of hybrid MR/PET.
2. To realise the impact of MR/PET on workflow.
3. To learn about potential clinical applications of MR/PET.

Panel discussion:
Cross-linking radiology: opportunity or threat?

10:30–12:00 Room L 1
EIBIR Session
EIBIR 2 What’s new in biomedical imaging research: an update of EIBIR activities

10:30 A-380 Chairman’s introduction
G.P. Krestin; Rotterdam/NL

10:45 A-381 Presentation from the European Commission on Horizon 2020
A.-S. Costescu; Brussels/BE

11:00 A-382 EIBIR joint Initiative for Paediatric Radiology
K. Rosendahl, Bergen/NO

11:15 A-383 EIBIR Joint Initiative: Biomedical Image Analysis Platform
W.J. Niessen; Rotterdam/NL

11:30 A-384 EIBIR Joint Initiative for Image Guided Radiotherapy
V. Valentini; Rome/IT

11:45 A-385 EIBIR Joint Initiative for Euro-BioImaging
S. Aime; Turin/IT

10:30–12:00 Room G
EFOMP Workshop
EF 2 Multi-energy imaging: from physics to diagnosis II
Moderators: J. Damilakis, Iraklion/GR, A. Torresin, Milan/IT

10:30 A-386 Chairman’s introduction
J. Damilakis; Iraklion/GR

Session Objectives:
1. To explore the clinical applications of multi-energy CT.
2. To assess the role of multi-energy in the management of patients.
3. To explore the problems raised by radiation dose.

10:35 A-387 Multi-energy imaging in the thorax
P. Vock; Spiegel/CH

Learning Objectives:
1. To learn about the application of multi-energy CT in the thorax.
2. To appreciate its effect on patient management.
3. To understand image artefacts.
4. To learn about reducing radiation dose.

11:05 A-388 Dual-energy CT in oncology
C.N. De Cecco; Rome/IT

Learning Objectives:
1. To learn about the application of multi-energy CT in oncology.
2. To explore the possibilities of material identification and differentiation with multi-energy imaging.
3. To appreciate the effect on the management of cancer patients.

11:35 A-389 Clinical application of multi-energy imaging in digital mammography

Learning Objectives:
1. To learn about the application of multi-energy imaging to mammography.
2. To appreciate how multi-energy imaging compares with other mammographic imaging modalities.
12:30–13:30 Room B

**E³ - The Beauty of Basic Knowledge: Breast Imaging**

**E³ 25C** Breast cancer staging: why and how  
Moderator: J. Campo Herrero; Alzira/ES

12:30

**A-394** Breast cancer staging: why and how  
K. Kinkel; Chêne-Bougeries/CH

**Learning Objectives:**
1. To learn the timing, limitation and advantages of the different imaging techniques in staging breast cancer.
2. To know how to deal with additional lesions and their clinical meaning.
3. To understand the critical role of the radiologist in the pretreatment evaluation of breast cancer.

12:30–13:30 Room D1

**E³ - The Beauty of Basic Knowledge: Skeletal Radiology**

**E³ 24C** Inflammatory/infectious disorders  
Moderator: V. Cassar-Pullicino; Oswestry/UK

12:30

**A-395** Inflammatory/infectious disorders  
V.N. Cassar-Pullicino; Oswestry/UK

**Learning Objectives:**
1. To learn about the pathomechanisms involved in inflammatory and infectious disorders.
2. To understand the imaging appearances and their differential diagnosis in the acute, sub-acute and chronic phases of infection.
3. To become familiar with the spectrum of imaging features of inflammatory disorders in the axial and peripheral skeleton.

14:00–15:30 Room B

**EFRS meets Germany**

**EM 5** High-end and hybrid technology in clinical and research work of radiographers in Germany  
Presiding:  
C. Vandulek, Kaposvár/HU  
A. Ohmstede, Oldenburg/DE

14:00

**A-396** Introduction  
C. Vandulek, A. Ohmstede; Kaposvár/HU, Oldenburg/DE

14:05

**A-397** Teaching and learning with VERT (Virtual Environment for Radiation Therapy Training)  
C. Garske; Berlin/DE

**Learning Objectives:**
1. To learn about our work with VERT.
2. To understand the advantages of VERT.
3. To appreciate the better preparation of our students for the practical course.

14:23

**A-398** Selective Internal Radiation Therapy (SIRT)  
B. Kulitzscher; Berlin/DE

**Learning Objectives:**
1. To learn about the procedure background.
2. To become familiar with the material used.
3. To appreciate the outcome of SIRT.

14:41

**A-399** Interlude: German Röntgen Museum  
B. Leonard, Berlin/DE

**Learning Objectives:**
1. To learn about highly sophisticated non medial applications of X-rays.
2. To understand other methods of producing X-rays.
3. To appreciate the benefits of non-medical technical applications.

14:54

**A-400** PET-CT  
K. Hägele; Böbingen/DE

**Learning Objectives:**
1. To demonstrate the use of PET-CT in oncology.
2. To learn about the tracers used in PET.
3. To understand the principal and technique of the examination.
4. To become familiar with the process (patient preparation and aftercare).
5. To appreciate the benefits of the examination.

15:12

**A-401** MRI-PET  
V. Diehl, C. Franzius, M. Lentschig; Bremen/DE

**Learning Objectives:**
1. To learn about the basics of the combination of MRI and PET.
2. To understand the simultaneous acquisition of morphology and metabolism.
3. To appreciate the clinical applications with the example of oncologic imaging and neurological imaging.

14:00–15:30 Room Studio 2015

**Joint Session of the ESR and ESMRMB**

**The ABC and 123 of perfusion MRI: DSC, DCE and ASL explained**  
Moderators: X. Golay; London/UK, M. Smits; Rotterdam/NL

14:00

**A-402** Perfusion MRI: DSC, DCE and ASL  
L. Knutsson; Lund/SE

**Learning Objectives:**
1. To understand the basic principles of dynamic susceptibility contrast (DSC), dynamic contrast-enhanced (DCE) and arterial spin-labelling (ASL) perfusion MRI.
2. To know the parameters that are derived from perfusion MRI, e.g. cerebral blood volume (CBV), cerebral blood flow (CBF), and ktrans.

14:30

**A-403** Clinical applications of brain perfusion MRI  
H.R. Jäger; London/UK

**Learning Objectives:**
1. To know the current indications for brain perfusion MRI in the clinical routine.
2. To understand which perfusion MRI technique and parameters to use for which indication.
3. To learn about future applications of brain perfusion MRI in clinical practice.
A-404 DCE-MRI in oncology - when is quantitative imaging essential?
A.R. Padhani; London/UK

Learning Objectives:
1. To show that the implementation of perfusion DCE-MRI into clinical practice has been delayed/hindered by the complexities of the technical analysis.
2. To demonstrate that complex quantitative analysis has roles in validation, drug development and is needed for multiparametric assessments.
3. To illustrate that the key role of quantitative DCE-MRI is in the validation phase of biomarker development but that clinical deployment can be reductive provided that sensitivity is maintained.
4. To discuss future work, which should focus on incorporating perfusion imaging as part of multiparametric assessments so as to improve understanding of tumour heterogeneity, including response in the era of targeted/precision medicine.

15:20 Panel discussion

14:00–15:30 Room L1

EIBIR Session

EIBIR 3 MITIGATE consortium: state of the art imaging and therapy in GIST
Moderators: S.O. Schönberg; Mannheim/DE, I. Virgolini; Innsbruck/AT

14:00 A-405 Selective internal radiotherapy in GIST patients
S.J. Diehl; Mannheim/DE

14:30 A-406 Multimodal imaging in GIST
D.L. Longo; Turin/IT

15:00 A-407 Principle of X-Nuclei MR imaging: what the radiologist should know
L.R. Schad; Mannheim/DE

14:00–15:30 Room MB 2

EuroSafe Imaging Session

EuroSafe 2 EuroSafe imaging call for action

14:00 A-408 Chairman’s introduction
G. Paus; Paris/FR

Session Objectives:
1. To learn more about the ESR’s strategy to establish a patient safety culture in Europe.
2. To understand how EuroSafe Imaging’s Call for Action will contribute towards the implementation of the IAEA and WHO ‘Bonn Call for Action’.
3. To learn more about the specific plan of activities of EuroSafe Imaging.

14:05 A-409 EuroSafe imaging call for action
G. Paus; Paris/FR

Learning Objectives:
1. To learn about EuroSafe Imaging’s strategy to establish a patient safety culture in Europe.
2. To understand how EuroSafe Imaging’s Call for Action will contribute towards the implementation of the IAEA and WHO ‘Bonn Call for Action’.
3. To discuss future work, which should focus on incorporating perfusion imaging as part of multiparametric assessments so as to improve understanding of tumour heterogeneity, including response in the era of targeted/precision medicine.

14:15 A-410 EuroSafe imaging training and education activities and data collection project “Are you EuroSafe?”
G. Paus; Spiez/CH

Learning Objectives:
1. To learn about EuroSafe Imaging’s strategy to establish a patient safety culture in Europe.
2. To understand how EuroSafe Imaging’s Call for Action will contribute towards the implementation of the IAEA and WHO ‘Bonn Call for Action’.
3. To learn more about the specific plan of activities of EuroSafe Imaging.

14:30 A-411 Role of radiographers in medical radiation protection in the context of EuroSafe imaging
J. Paus; Iraklion/GR

Learning Objectives:
1. To understand the role of radiographers in medical radiation protection.
2. To learn more about the ‘division of labour’ between radiologists and radiographers.
3. To learn more about the impact technical issues and quality of equipment have on radiation protection.

14:45 A-412 Role of medical physicists in medical radiation protection in the context of EuroSafe imaging
J. Paus; Iraklion/GR

Learning Objectives:
1. To understand the role of medical physicists in medical radiation protection.
2. To learn more about the added value medical physicists provide in radiology departments.

15:00 A-413 New European approaches to medical low-dose research
J. Repussard; Paris/FR

Learning Objectives:
1. To raise awareness about existing knowledge gaps, and related research programs.
2. To learn about the opportunities for participation to research project with field.

Panel discussion:
15:15 EuroSafe Imaging - feedback, contributions, future activities, endorsement
N. Bedlington; Vienna/AT (European Patients Forum)
N. Denjoy; Brussels/BE (COCIR)
G. Simeonov, Luxembourg/LU (European Commission)
M. Perez; Geneva/CH (WHO)
O. Holmberg; Vienna/AT (IAEA)
E³ - ECR Academies: Interactive Teaching Sessions

E³ 1221 Unexpected findings on brain MRI

16:00
A-414 A. Large ventricles: normal or abnormal?
S. Langner; Greifswald/DE

Learning Objectives:
1. To learn the anatomy and physiology of the ventricular system.
2. To differentiate hydrocephalus from physiologic changes.

16:45
A-415 B. Incidental lesions on a brain MRI
E.T. Tali; Ankara/TR

Learning Objectives:
1. To identify incidental findings on a brain MRI.
2. To learn how to characterise the lesions.
3. To learn how to handle the incidental findings.

ESR meets EAU

EM 2 Joint ESR-EAU prostate cancer session
Welcome by the ESR President
L. Bonomo; Rome/IT
Presiding
P.-A. Abrahamsson; Malmö/SE
B. Hamm; Berlin/DE

16:00
A-416 Introduction
P.-A. Abrahamsson1, B. Hamm2; 1 Malmö/SE, 2 Berlin/DE

Session Objectives:
1. To understand therapeutic decision-making from the urologist's point of view.
2. To understand the role of imaging in the early detection of prostate cancer.
3. To learn about the new role of imaging in active surveillance.

16:05
A-417 PSA screening: the EAU view
P.-A. Abrahamsson; Malmö/SE

Learning Objectives:
1. To be aware of the limitations of PSA.
2. To understand how to personalise prostate cancer screening.
3. To understand the indications for prostate MRI from the urological point of view.

16:23
A-418 Role of a multiparametric MRI in early detection
G.M. Villiers; Genk/BE

Learning Objectives:
1. To understand the basic principles of mpMRI.
2. To be aware of the advantages and limitations of each MR technique.
3. To understand the PIRADS classification system.

16:41
A-419 Active surveillance strategies in prostate cancer
A. Villers; Lille/FR

Learning Objectives:
1. To understand the paradigm shift from invasive treatment to active surveillance (rationale for active surveillance).
2. To learn how to select patients for active surveillance (comparison between the different available criteria).
3. To identify triggers for active treatment (tumour progression).

17:00
A-420 Role of imaging in active surveillance
A.R. Padhani; London/UK

Learning Objectives:
1. To discuss the role of mpMRI for confirming eligibility for active surveillance (which means to highlight the benefits of mpMRI for detecting cases at higher risk and thus unsuited for active surveillance).
2. To monitor patients under AS.
3. To optimise biopsy targeting during monitoring on AS.

Panel discussion:
When should MRI be used? Before or after prostate biopsy?
Qualitative or quantitative MRI reading?
Cost-effectiveness of mpMRI for as a tool for prostate cancer screening.
Can mpMRI detect clinically significant prostate cancer?

E³ - ECR Academies: Modern Imaging of the GI Tract

E³ 1222 Perianal fistula disease: all you need to know
Moderator: D. Weishaupt; Zurich/CH

16:00
A-421 A. Perianal anatomy and imaging techniques
K. Horsthuis; Amsterdam/NL

Learning Objectives:
1. To understand anal canal anatomy.
2. To become familiar with state-of-the-art protocols for imaging the anal canal.
3. To learn about normal variants which mimic anal disease.

16:20
A-422 B. Perianal fistula disease: the basics
S. Halligan; London/UK

Learning Objectives:
1. To understand the pathophysiology and classification of perianal fistula disease.
2. To become familiar with the role of US and MRI in assessing fistula disease.
3. To learn about the basic reporting of non-complex fistula disease.

16:40
A-423 C. Perianal fistula disease: advanced
F. Maccioni; Rome/IT

Learning Objectives:
1. To learn about complex perianal fistula disease, notably extensions and abscesses.
2. To understand the role of imaging in patient follow-up and treatment monitoring.
3. To learn about benign inflammatory conditions which may affect the anal canal, including hydradenitis and pilonidal disease and how they are differentiated from perianal fistulae.

17:00
A-424 D. Interactive case discussion
D. Weishaupt; Zurich/CH

Learning Objectives:
1. To become familiar with typical cases demonstrating the crucial role of imaging perianal fistula disease.
2. To learn about typical imaging findings.
3. To be aware of potential pitfalls in imaging perianal fistula disease.
Professional Challenges Session

PC 12b  Medicolegal aspects in daily practice

16:00

A-425 Chairman’s introduction
J.I. Bilbao; Pamplona/ES

Session Objectives:
1. To understand the consequences of misinterpretation.
2. To learn about the concepts of error, undesirable results and malpractice.
3. To become familiar with the point of view of the lawyer.

A-426 Inadequate consent, missed lesions and misinterpretation: legal challenges in radiology
E.J. Adam; London/UK

Learning Objectives:
1. To understand the need to accurately inform the patient about the procedure and the expected results.
2. To know how to deal with lesions which have been missed in a report.
3. To become familiar with the consequences that a misinterpretation may have in the process of attending to a patient.

A-427 When is a radiologic error simply an error and when is it malpractice?
A. Cannavale, M. Santoni, F. Fanelli; Rome/IT

Learning Objectives:
1. To understand that some errors may be the result of negligent conduct of the radiologist.
2. To understand that some undesirable results are not malpractice.
3. To become familiar with the concept of “standard of care” in daily clinical practice.

A-428 The lawyer’s point of view
M. Ludvik; Vienna/AT

Learning Objectives:
1. To understand the legal concept of malpractice.
2. To become familiar with the point of view of a lawyer about ‘standard of care’ in clinical practice.

Panel discussion: How present are medicolegal aspects in our daily clinical practice?

16:00–17:30 Room M

Physics in Radiology

RC 1213  Good radiation and bad radiation? How to assess and communicate radiation risk to patients and referring physicians
Moderator: D. Crajić-Bjelac; Belgrade/RS

A-429 A. Radiation risk: a patient’s perspective
E. Briers; Hasselt/BE

Learning Objectives:
1. To understand the fears of patients.
2. To learn what is expected from physicians and techs.
3. To learn about ideal communication strategies.

16:15

A-430 B. Radiation risks for patients and staff
P. Gillard; Aarhus/DK

Learning Objectives:
1. To get the latest information on stochastic and deterministic risks in radiology.
2. To learn about quantitative risk assessment in typical scenarios: pregnant patient undergoing a CT scan; child undergoing a CT brain scan; adult undergoing a high-dose fluoroscopy procedure.

A-431 C. Risk in MRI
R. Poersch; Leuven/BE

Learning Objectives:
1. To learn about the risks for patients from MRI procedures.
2. To learn about the contraindications for MRI scans.
3. To learn about risks for staff in an MRI department.

A-432 D. Communicating risks to patients and the public
N. Leitgeb; Graz/AT

Learning Objectives:
1. To become familiar with communicating risk according to the imaging modality.
2. To become familiar with important rules in communication.
3. To understand the relationship between threat/hazard and parents’ perception regarding imaging of their child.
4. To learn how to select a risk-communication strategy suited to parents and children.

16:00–17:30 Room N

E³ - ECR Academies:
Image-Guided Interventions in Oncology

E³ 1219  The cutting-edge technologies in image-guided tumour therapy

16:00

A-433 Chairman’s introduction
M. Krokidis; Cambridge/UK

Session Objectives:
1. To become familiar with the new emerging image-guided techniques in oncology.
2. To learn about physical and technical basics of the presented techniques.
3. To understand the clinical and technical indications for these new technologies.

A-434 A. HIFU: The ultrasound guidance
F. Orsi; Milan/IT

Learning Objectives:
1. To understand physical and technical basics of ultrasound-guided high intensity focused ultrasound (USgHIFU).
2. To become familiar with the current indications in oncology.
3. To consolidate knowledge of results from personal experience and from the literature.

A-435 B. HIFU: The magnetic resonance guidance
A. Napoli, G. Brachetti; Rome/IT

Learning Objectives:
1. To understand physical and technical basics of magnetic resonance-guided high intensity focused ultrasound (MRgHIFU).
2. To become familiar with the current indications in oncology.
3. To consolidate knowledge of results from personal experience and form the literature.
16:00−17:30  Room E1

Musculoskeletal

RC 1210  Sports injuries to the knee: improving my report
Moderator: P. Robinson; Leeds/UK

16:00
A-440  A. Reporting meniscal tears: pitfalls and how I avoid them
G. Andreisek; Zurich/CH

Learning Objectives:
1. To understand the normal anatomy which may simulate meniscal tears.
2. To understand pitfalls in the diagnosis of meniscal tears.

16:30
A-441  B. The collateral ligaments and posterolateral corner: what are they, why do they matter and how do I assess them?
V. Vasilievska Nikodinovska; Skopje/MK

Learning Objectives:
1. To appreciate the significance of the collateral ligaments and posterolateral corner.
2. To understand pitfalls in the diagnosis of posterolateral corner injuries.

17:00
A-442  C. The patellofemoral joint and osteochondral injuries: how do I assess and what do I report?
C. Schaeffeler; Chur/CH

Learning Objectives:
1. To improve the reporting of osteochondral injuries.
2. To improve the reporting of patellofemoral abnormalities.

16:00−17:30  Room E2

Special Focus Session

SF 12  Interventional radiology in venous thromboembolism and chronic venous disease

16:00
A-443  Chairman’s introduction
D.R. Faster; Utrecht/UK

Session Objectives:
1. To understand when the interventional radiologist should intervene to treat venous thromboembolism and venous insufficiency.
2. To learn about the principles and procedural challenges of the different endovascular techniques.
3. To appreciate the importance of building a dedicated interventional radiological service.

16:05
A-444  Current endovascular treatment in iliofemoral DVT
R. Uberoi; Oxford/UK

Learning Objectives:
1. To learn about the typical clinical and imaging features of acute and chronic iliofemoral DVT.
2. To become familiar with different IVC filter types.
3. To highlight tips and tricks regarding IVC placement and retrieval.
4. To understand current evidence regarding safety and efficacy of IVC filters.

16:25
A-445  Vena cava filters: an update
M.J. Lee; Dublin/IE

Learning Objectives:
1. To learn about indications and contraindications of IVC filters.
2. To become familiar with different IVC filter types.
3. To highlight tips and tricks regarding IVC placement and retrieval.
4. To understand current evidence regarding safety and efficacy of IVC filters.

17:05
A-447  Techniques and tools in endovenous thermal ablation
D.J. West; Stoke-on-Trent/UK

Learning Objectives:
1. To understand the principles of endovenous thermal ablation.
2. To become familiar with the procedural technique.
3. To learn how to build a dedicated service.

Panel discussion:
17:25
What does the interventional radiologist need to know about modern anticoagulation treatment?
16:05
A-449  The 2011 classification of adenocarcinomas: rationale and implications for nodule management
A. Nicholson; London/UK

Learning Objectives:
1. To become familiar with the most recent pathological classification of pulmonary adenocarcinomas and to understand the rationale behind it.
2. To understand how pathologists determine the histological composition of a nodular lesion and its implication on nodule management, tumour staging and patient prognosis.

16:30
A-450  The Fleischner guidelines for solid and subsolid nodules: theory and practice
A.A. Bankier; Boston, MA/US

Learning Objectives:
1. To illustrate the role of CT as an imaging biomarker with examples of patho-radiological correlation.
2. To become familiar with and understand the rationale behind the content of the Fleischner guidelines for solid and subsolid nodules.
3. To realise the impact of applying the Fleischner guidelines in clinical practice.
4. To learn how the Fleischner guidelines may have to be adapted to incorporate the most recent knowledge about the biological behaviour of pulmonary nodules.

16:55
A-451  Estimating the risk for malignancy of pulmonary nodules
B. van Ginneken; Nijmegen/NL

Learning Objectives:
1. To learn about 2. and 3. methods of assessing nodule growth and their accuracy.
2. To understand the different demands of solid and subsolid nodules with respect to growth assessment.
3. To learn about the role of computers in assessing the risk of malignancy of pulmonary nodules.

Panel discussion:
17:20  Fleischner guidelines: what have we learned?

16:00–17:30 Room D1

Chest

RC 1204  Mediastinal disease revisited
Moderator: J. Dinkel; Munich/DE

16:00
A-458  A. The crucial role of chest x-ray: mediastinal lines and stripes
J. Cáceres; Barcelona/ES

Learning Objectives:
1. To become familiar with the signs that indicate mediastinal pathology.
2. To confidently identify and localise a mediastinal mass on chest plain films.

16:30
A-459  B. Mediastinal masses: role of CT
V.E. Sinitsyn; Moscow/RU

Learning Objectives:
1. To learn the most common causes of mediastinal masses.
2. To recognise signs which allow us to characterise mediastinal masses.

17:00
A-460  C. A new look at the mediastinum: role of MRI and PET/CT
E.J.R. van Beek; Edinburgh/UK

Learning Objectives:
1. To learn when and how to apply MR for mediastinal disease.
2. To learn when and how to apply PET/CT for mediastinal masses.
Friday

16:00–17:30 Room G

E³ - ECR Master Classes (Genitourinary)

E³ 1226a  Urogenital radiology in 2015: beyond morphology?
Moderator: H.C. Thoeny, Berne/CH

16:00
A-461 A. Where are we in measuring kidney function with imaging?
N. Grenier; Bordeaux/FR
Learning Objectives:
1. To become familiar with the renal physiological parameters to be quantified.
2. To learn about the techniques available for evaluating the function.
3. To understand the limitations of each technique in clinical applications.

16:30
A-462 B. The added value of DWI in gynaecological malignancies: the ADC and beyond
A.G. Rockall; London/UK
Learning Objectives:
1. To describe the role of diffusion weighed MRI (DW-MRI) in lesion detection and characterisation.
2. To review the added clinical value of DW-MRI in staging and follow-up of patients with gynaecologic malignancies.
3. To highlight technical and interpretation challenges of DW-MRI in evaluation of gynaecologic malignancies.

17:00
A-463 C. Will genomics change imaging? Renal cancer as a case study
P.L. Choyke; Bethesda, MD/US
Learning Objectives:
1. To identify the major genetic abnormalities associated with renal cancer.
2. To discuss how these genetic abnormalities affect the imaging of renal cancer.
3. To describe how the interplay between genomics and imaging affects management of patients.

16:00–17:30 Room K

E³ - ECR Academies:
Hybrid Imaging (advanced)

E³ 1218  MR/PET - the future of hybrid imaging?
Moderator: R.A. Coulton, Edmonton, AB/CA

16:00
A-464 A. For which indications is MR/PET better than PET/CT?
L. Umutlu; Essen/DE
Learning Objectives:
1. To understand the advantage of using MRI instead of CT together with PET.
2. To become familiar with scanner technology.
3. To consolidate the situation in advanced hybrid imaging.

16:30
A-465 B. MR/PET technology: state of the art
A. Cascales, C. Nappi, R. Assante; Naples/IT
Learning Objectives:
1. To understand the different demands of a PET System with MR instead of CT.
2. To become familiar with challenges in attenuation correction in PET/MR.
3. To consolidate knowledge of the new technique.

17:00
A-466 C. Diffusion-weighted MRI vs PET in oncology
F. Giesel; Munich, DE
Learning Objectives:
1. To learn about diffusion-weighted MRI.
2. To understand the differences from PET.
3. To consolidate the use of advanced imaging protocols in oncology.

16:00–17:30 Room MB 1

E³ - ECR Master Classes (Molecular Imaging)

E³ 1226d  Chemical exchange saturation transfer (CEST): a new toy for molecular imaging?
Moderator: O. Clément, Paris/FR

16:00
A-467 A. Physical principle
M. Bock; Freiburg/DE
Learning Objectives:
1. To understand the physical principle of CEST imaging.
2. To understand the requirements for a molecule to be suited for CEST imaging.
3. To learn about MR sequences used for CEST imaging.

16:30
A-468 B. Probes
S. Aime; Turin/IT
Learning Objectives:
1. To learn about available endogenous and exogenous contrast agents and probes.
2. To understand the advantages of para-CEST agents.
3. To discuss the potential of hyper-CEST.

17:00
A-469 C. Clinical applications
S. Walker-Samuel; London/UK
Learning Objectives:
1. To understand the clinical potential of CEST.
2. To learn about gluco-CEST.
3. To discuss CEST applications in the orthopaedic and oncologic field.

16:00–17:30 Room MB 2

E³ - ECR Master Classes (Cardiac)

E³ 1226c  Cardiac MR imaging
Moderator: P. Croisille, Saint-Etienne/FR

16:00
A-470 A. T1 and T2 mapping
C. Lücke; Leipzig/DE
Learning Objectives:
1. To understand the principles of T1 and T2 mapping.
2. To learn about the current insights and potential role of T1 and T2 mapping.

16:30
A-471 B. Quantification of myocardial perfusion by MRI
F. Vaccarino; Maastricht/JP
Learning Objectives:
1. To understand the different approaches to quantification of myocardial perfusion by MRI.
2. To learn about the clinical potential of imaging perfusion quantification.
16:00–17:30  Room MB 3

Computer Applications

RC 1205  Update on computer-aided diagnosis (CAD)

16:00  A-473 Chairman’s introduction
M. Langer; Freiburg/DE

Session Objectives:
1. To give an overview of the most important clinical applications of CAD.
2. To describe results of clinical trials that use CAD for lesion detection and interpretation.
3. To summarise advantages and limitations of CAD technology.

16:05  A-474 A. CT colonography and CAD
S. Taylor; London/UK

Learning Objectives:
1. To describe the reading paradigms of CAD applied to CT colonography.
2. To present the results of clinical trials adopting CAD as an additional tool to report CT colonography.
3. To describe indications, advantages and pitfalls of using CAD in clinical practice.

16:28  A-475 B. CAD for lung nodules
A. Larici; Rome/IT

Learning Objectives:
1. To describe CAD algorithms for nodule detection and volume measurement.
2. To underline advantages and limitations of the use of CAD for lung nodule detection.
3. To review the importance of lung nodule volume measurements.

16:51  A-476 C. CAD for breast cancer detection
M. Bick; Berlin/DE

Learning Objectives:
1. To describe different types of CAD algorithms for detection and characterisation of breast lesions.
2. To review the results of clinical trials that use CAD for detection of breast lesions.
3. To give an overview of the potential role of CAD applied to new technologies.

Panel discussion:
17:14  Is CAD ready for prime time?

16:00–17:30  Room MB 5

Paediatric

RC 1212  Hepatobiliary imaging in children
Moderator: D. Akinci; Ankara/TR

16:00  A-481 A. Imaging of liver masses
D.J. Roebuck; London/UK

Learning Objectives:
1. To learn about imaging protocols.
2. To learn about common benign and malignant lesions and differential diagnosis.
3. To become familiar with the role of new imaging techniques and hepatocytes-specific contrast agents.

16:30  A-482 B. Imaging of biliary disorders
S.G.F. Robben; Maastricht/NL

Learning Objectives:
1. To become familiar with the roles of US, CT and MRI.
2. To learn about manifestations of common diseases.
3. To discuss the role of hepatobiliary contrast agents.

17:00  A-483 C. Intervention in the hepatobiliary system
S. Franchi-Abeba, D. Pariente; Le Kremlin-Bicêtre/FR

Learning Objectives:
1. To become familiar with liver biopsy in focal and diffuse hepatic disorders.
2. To highlight the role of interventional radiology in biliary disorders.
3. To learn about the role of interventional radiology in hepatic vascular disorder.
08:30–10:00  Room A

E³ - ECR Academies: Interactive Teaching Sessions

E³ 1321  Diagnostic evaluation of bone tumours

08:30
A-484  A. Bone tumours: benign or malignant?
H.-J. van der Woude; Amsterdam/NL

Learning Objectives:
1. To learn the features on conventional radiographs that distinguish benign and malignant bone tumours.
2. To learn the features on MRI and CT that distinguish benign and malignant bone tumours.

09:15
A-485  B. Pseudotumours: mimic bone tumours
F.M.H.M. Vanhoenacker, B. Peters; Antwerp/BE

Learning Objectives:
1. To recognise the range of lesions which mimic tumours of the bone.
2. To learn the features that identify pseudotumours of the bone.

08:30–10:00  Room B

Abdominal Viscera

RC 1301  Pancreatic inflammation
Moderator: G. Morana; Treviso/IT

08:30
A-486  A. Acute pancreatitis
M. Zins; Paris/FR

Learning Objectives:
1. To learn how imaging should be scheduled for patients with acute pancreatitis.
2. To become familiar with the imaging features and the terminology proposed in the Atlanta classification.

09:00
A-487  B. Chronic pancreatitis and IPMN
C. Matos; Brussels/BE

Learning Objectives:
1. To learn the classical aspect of IPMN on imaging.
2. To learn how it merges with chronic pancreatic disease and how we can differentiate both.
3. To understand the role of different imaging techniques in assessing both diseases.

09:30
A-488  C. Paraduodenal and autoimmune pancreatitis
S.A. Jackson; Plymouth/UK

Learning Objectives:
1. To become familiar with the clinical presentation and the radiological signs that may be observed in autoimmune pancreatitis.
2. To become familiar with the diagnostic criteria for the disease.
3. To learn strategies for managing doubtful clinical situations.

08:30–10:00  Room C

E³ - ECR Academies: Modern Imaging of the GI Tract

E³ 1322  Imaging the postoperative patient
Moderator: A. Graser; Munich/DE

08:30
A-489  A. What the surgeon does: surgical procedures and normal postoperative anatomy
M.M. Maher; Cork/IE

Learning Objectives:
1. To understand common surgical procedures performed in the esophagus, stomach, small bowel and colon.
2. To appreciate the normal appearance of an enteric anastamosis on fluoroscopic and cross-sectional imaging.
3. To understand the normal appearances of haemostatic packing and other surgical devices on radiological investigations.

09:00
A-490  B. Do I need to re-operate? Postoperative imaging and immediate complications
D.J.M. Tolan; Leeds/UK

Learning Objectives:
1. To understand the best imaging options for investigating suspected postoperative complications.
2. To appreciate the normal appearances of the abdomen and pelvis after surgery, in particular with regard to free fluid, haematoma and free gas, and when to suspect complications.
3. To become familiar with the radiological appearances of common and more unusual post-operative complications and their interventional radiological management.

09:30
A-491  C. It still hurts: follow-up imaging and long-term complications
L. Curvo-Semedo; Coimbra/PT

Learning Objectives:
1. To become familiar with the long-term complications of surgery to the GI tract.
2. To appreciate the appropriate use of imaging in the assessment of long-term complications.
3. To learn about the radiological investigation of suspected postoperative adhesions.

08:30–10:00  Room Z

Joint Session of the ESR and EORTC

Imaging in multicentre clinical oncological trials
Moderators: L. Fournier; Paris/FR, Y. Liu; Brussels/BE

08:30
A-493  Imaging in clinical trials: the EORTC perspective
Y. Liu; Brussels/BE

Learning Objectives:
1. To become familiar with the importance of imaging in oncologic trials.
2. To learn about the role of the EORTC Imaging Group.
3. To appreciate how standardisation enhances the role of imaging in oncologic trials.
A-496  Multiparametric MRI in breast and prostate cancer

Learning Objectives:
1. To consolidate knowledge about state-of-art quantitative MRI.
2. To learn about standardisation and validation.
3. To appreciate the interactions of quantitative imaging with the results from biobanks.

A-498  B. Patient dose tracking: a must have?

Learning Objectives:
1. To identify informatics and tools for tracking patient radiation dose.
2. To learn about some possible uses in clinical practice.
3. To learn about some examples of patient radiation dose tracking.

A-500  Chairman’s introduction

Session Objectives:
1. To describe the most important signs in chest imaging.
2. To differentiate the imaging features of benign and malignant lesions of the lung.
3. To differentiate the imaging appearance of common lesions of the mediastinum, pleura and chest wall.

A-501  A. Fundamentals of chest imaging

Learning Objectives:
1. To understand the anatomy and normal variants of the respiratory system, heart and vessels, mediastinum and chest wall and to confidently identify these on radiographs, CT and MRI.
2. To understand the technical aspects, exposure doses and post-processing of radiographs and CT of the chest.
3. To have an in-depth understanding of the most common chest radiography signs (including silhouette sign, air bronchogram, air crescent sign, cervicothoracic sign, tapered margins, gloved finger sign, golden sign, deep sulcus sign).
4. To describe the appearance and correct position of monitoring and support devices (tubes and lines).

A-502  B. Inflammation and tumours of the lung

Learning Objectives:
1. To understand the imaging features and differential diagnoses of diffuse infiltrative and alveolar lung disease and atelectasis.
2. To differentiate solitary and multiple pulmonary nodules, benign and malignant neoplasms, hyperlucencies and their potential aetiology and evaluation.
3. To differentiate thoracic diseases in immunocompetent, immunocompromised and post-transplant patients.
4. To describe the imaging features of congenital disorders of the lung.

A-503  C. Mediastinum, pleura and chest wall

Learning Objectives:
1. To differentiate the imaging features of common pathologies of the diaphragm, pleura and chest wall on radiography, CT and MRI of the chest.
2. To analyse and explain the imaging features and causes of mediastinal and hilar diseases.
3. To describe the imaging features of disorders of the pulmonary vascular system and great vessels.
4. To differentiate imaging features of the postoperative chest.
Postgraduate Educational Programme

09:00  A-508  B. MRI of the spine and sacroiliac joints
C. Schueller-Weidekamm, Vienna/AT
Learning Objectives:
1. To learn about standardised imaging.
2. To understand the MRI-specific findings that aid diagnosis.
3. To learn a structured approach to reporting.

09:30  A-509  C. MRI of the hand
M. Shahalpour, C. Boulet, M. De Maeseneer, Brussels/BE
Learning Objectives:
1. To learn about standardised imaging.
2. To understand the MRI-specific findings that aid diagnosis.
3. To learn a structured approach to reporting.

08:30–10:00 Room E2

Neuro

RC 1311 Reporting spine imaging studies
Moderator: M.A. Papathanasiou, Athens/GR

08:30  A-510 A. Disc nomenclature and treatment strategy
M. Gallucci, L’Aquila/IT
Learning Objectives:
1. To become familiar with the different nomenclatures in degenerative disk disease.
2. To learn how to differentiate between degenerative disease and other pathologies.
3. To learn whether or not disc nomenclature influences treatment strategy.

09:00  A-511 B. What to say and not to say in your report
M. Thurnher, Vienna/AT
Learning Objectives:
1. To understand the legal value of a report.
2. To demonstrate how detailed a report should be.
3. To understand the importance of a clinical correlation and previous exam correlation.

09:30  A-512 C. Introduction to structured reporting in the spine
J. Van Goethem, L. van den Hauwe, F. De Belder, C. Venstermans, F. Ramon, P.M. Parizel, Antwerp/BE
Learning Objectives:
1. To understand if it is always helpful to have a structured report.
2. To learn what a structured report is.
3. To learn whether or not we can escape through structured reporting.

08:30–10:00 Room F1

E³ - ECR Master Classes
(Oncologic Imaging)

E³ 1326 Imaging tumour phenotype: the future is now
Moderator: D. Regev, Turin/IT

08:30  A-513 A. Radiogenomics for cancer: phenotypic and genomic heterogeneity
P.L. Choyke, Bethesda, MD/US
Learning Objectives:
1. To be familiar with the concept of radiogenomics.
2. To understand the potential role of radiogenomic studies in evaluating cancer.
3. To be familiar with the research objectives in this field.

09:00  A-514 B. Imaging tumour heterogeneity and perfusion: predicting tumour behaviour
V. Gou, London/UK
Learning Objectives:
1. To be familiar with the techniques for measuring tumour heterogeneity on imaging.
2. To know the main findings of perfusion imaging in predicting tumour behaviour.
3. To be familiar with current research in this field.

09:30  A-515 C. Molecular imaging: visualising the characteristics of cancer cells
G. Cook, London/UK
Learning Objectives:
1. To learn about important imaging targets in cancer cells.
2. To be familiar with specific radiotracers currently in early phase cancer imaging studies.
3. To be familiar with the potential role of new tracers in patient management.

08:30–10:00 Room F2

Breast

RC 1302 Tailoring breast cancer screening to risk level
Moderator: B. Brkljacic, Zagreb/HR

08:30  A-516 A. Calculating, using and improving individual risk estimates
S.W. Duffy, London/UK
Learning Objectives:
1. To know the different models for risk evaluation.
2. To understand the limitations of risk modelling for predicting the individual risk.
3. To appreciate the potential applications of risk modelling for tailoring breast cancer screening.

09:00  A-517 B. Intermediate risk: the grey zone
S.H. Heywang-Köbrunner, Munich/DE
Learning Objectives:
1. To become familiar with the concept of increased breast cancer risk.
2. To discuss the role of breast density in relation to cancer risk.
3. To evaluate the evidence in favour of intensive screening protocols in women at intermediate risk.

09:30  A-518 C. High risk: MRI alone?
F. Sardanelli, San Donato Milanese/IT
Learning Objectives:
1. To appreciate the evidence in favour of MRI for screening high-risk women in terms of diagnostic performance and patient outcome.
2. To become aware of the value of MRI alone for screening women with high-risk genes.
3. To become aware of the need for using mammography as an adjunct to MRI when screening women who have had previous thoracic radiation therapy.
08:30–10:00 Room D1

Chest

RC 1304 Occupational lung diseases: the known and the less known  
Moderator: N. Karabulut, Denizli/TR

08:30
A-519 A. Silicosis and coal workers' pneumoconiosis  
K. Marten-Engelke; Göttingen/DE

Learning Objectives:
1. To recognise clinical features and occupational history of silicosis and CWP.
2. To appreciate HRCT features of these disorders as well as important differential diagnoses.

09:00
A-520 B. Asbestos-related disease  
S.J. Copley; London/UK

Learning Objectives:
1. To know the wide range of findings associated with asbestos exposure.
2. To appreciate the role of CT-HRCT in the assessment of these patients.

09:30
A-521 C. Uncommon occupational lung diseases  
L. Flors; Charlottesville, VA/US

Learning Objectives:
1. To illustrate the HRCT features of patients with uncommon occupational lung diseases.
2. To understand the importance of connecting the HRCT findings with clinical features and occupational history to improve the diagnostic accuracy of these diseases.

08:30–10:00 Room D2

Radiographers

RC 1314 Radiography and evidence-based research: the way forward

08:30
A-522 Chairmen's introduction  
I. Henderson; M.G.M. Hunink; Aberdeen/UK, Rotterdam/NL

Session Objectives:
1. To outline the importance of a robust evidence base in supporting the development of professional practice.
2. To demonstrate how the evidence base can be used to develop services for the benefit of patients.
3. To provide guidance on how radiographers can contribute to the evidence base through research.

08:58
A-524 B. Application of evidence-based research into practice  
M. Gellert; M. Andersen; Odense/DK

Learning Objectives:
1. To learn how research outcomes can be used to enhance professional practice.
2. To be aware of the current gap between research and clinical practice and the importance of minimising it by developing proactive cooperation.
3. To appreciate "learning by development", a concept of including radiographers and radiography students into clinical practice research.

09:21
A-525 C. Improvement of patient outcomes by evidence-based research  
K.G. Vikestad; Oslo/NO

Learning Objectives:
1. To learn how applying research outcomes can translate into measurable improvements in diagnosis or treatment.
2. To understand how changes and improvements of patient outcomes can be measured.
3. To identify opportunities to improve patient outcomes in the workplace.

Panel discussion:
How to promote research as a tool for professional development?

08:30–10:00 Room G

Genitourinary

RC 1307 Female pelvic imaging: how I do it  
Moderator: K. Kinkel, Chêne-Bougeries/CH

08:30
A-526 A. Imaging female congenital anomalies  
I. Thomassin-Naggara, N. Perrot, M.-F. Carette, M. Bazot; Paris/FR

Learning Objectives:
1. To learn about the embryology of normal and abnormal female genital tract.
2. To understand the role of different available imaging techniques for female congenital anomalies: ISG, TV-US and MRI.
3. To learn about the examination technique and understand the imaging findings of MRI in the different classes of female congenital anomalies.

09:00
A-527 B. PET-CT in the female pelvis: how I do it  
A.G. Rockall; London/UK

Learning Objectives:
1. To understand the role of PET/CT in staging of various pelvic tumours and detection of tumour recurrence.
2. To understand the advantages and limitations of PET/CT in imaging the female pelvis.
3. To appreciate the role of PET/CT with respect to other imaging techniques in the diagnostic algorithms of pelvic tumours.

09:30
A-528 C. How to image cystic tumours of the ovary  
R. Forstner; Salzburg/AT

Learning Objectives:
1. To learn about specific imaging algorithms of ovarian cystic tumours.
2. To understand certain imaging features that can differentiate ovarian from non-ovarian cystic tumours in the pelvis.
3. To become familiar with the pitfalls in imaging of ovarian cystic tumours and the lessons to be learned from them.
08:30–10:00 Room K

**E³ - ECR Academies: Hybrid Imaging (advanced)**

**E³ 1318 Advanced imaging with tracers beyond FDG**  
Moderator: J. Votrubová, Prague/CZ

08:30  
A-529 A. Neuroendocrine tumours  
S. Fanti; Bologna/IT

**Learning Objectives:**  
1. To become familiar with PET imaging of neuroendocrine tumours with PET.  
2. To understand the biochemistry.  
3. To learn about challenges in advanced imaging of neuroendocrine tumours.

09:00  
A-530 B. Prostate cancer  
M.C. Roethke; Heidelberg/DE

**Learning Objectives:**  
1. To learn about tracers for PET imaging of prostate cancer.  
2. To learn about advanced MRI imaging of prostate cancer.  
3. To consolidate knowledge in PET/MR imaging of prostate cancer.

09:30  
A-531 C. Coronary atherosclerotic plaque  
M.A. Patak; Zurich/CH

**Learning Objectives:**  
1. To learn about tracers for PET imaging of atherosclerosis.  
2. To learn about advanced MRI imaging of atherosclerosis.  
3. To consolidate knowledge in PET/MR imaging of atherosclerosis.

10:30–12:00 Room A

**E³ - ECR Academies: Modern Imaging of the GI Tract**

**E³ 1422 Inflammatory bowel disease**  
Moderator: S.A. Taylor, London/UK

10:30  
A-532 A. Cross-sectional imaging protocols  
M.A. Patak; Zurich/CH

**Learning Objectives:**  
1. To understand state-of-the-art MRI, CT and US protocols for imaging IBD.  
2. To appreciate the comparative advantages and disadvantages of enterography and enteroclysis protocols.  
3. To learn about protocol modifications when evaluating the colon.

10:50  
A-533 B. Small bowel disease  
J. Stoker; Amsterdam/NL

**Learning Objectives:**  
1. To learn about the classifications of small bowel Crohn's disease.  
2. To become familiar with cross-sectional imaging signs of disease activity and complications.  
3. To understand a rational deployment of cross-sectional imaging techniques according to clinical indication, highlighting the main advantages and disadvantages of CT, MRI and US.

11:00  
A-534 C. Colitis  
J. Rimola; Barcelona/ES

**Learning Objectives:**  
1. To learn about the cross-sectional imaging features of colitis.  
2. To become familiar with differentiating infectious, inflammatory and ischaemic conditions based on cross-sectional imaging criteria.  
3. To appreciate an integrated approach to the use of cross-sectional imaging in colonic inflammatory bowel disease.

11:30  
A-535 D. Interactive case discussion  
S.A. Taylor; London/UK

10:30–12:00 Room B

**ESR meets the Republic of Korea**

**EM 3 CT in lung cancer screening and COPD evaluation**  
Welcome by the ESR President  
L. Bonomo; Rome/IT

**Presiding**  
B. Hamm; Berlin/DE  
T.-H. Lim; Seoul/KR

10:30  
A-536 Introduction: Korean Society of Radiology - evolution and new challenges  
T.-H. Lim; Seoul/KR

**Session Objectives:**  
1. To learn about smoking-related pulmonary diseases.  
2. To discuss the role of CT in lung cancer screening and COPD.  
3. To learn about recent results of clinical trials in lung cancer screening and COPD.

10:35  
A-537 Lung cancer screening in Korea  
K.S. Lee; Seoul/KR

**Learning Objectives:**  
1. To understand issues related to cancer screening.  
2. To learn about the results of recent clinical trials of lung cancer screening.  
3. To present the situation and results of lung cancer screening in Korea.

10:55  
A-538 Interlude: Republic of Korea (South Korea): Korean people and culture  
J. Hur; Seoul/KR

**Learning Objectives:**  
1. To briefly introduce Korean culture, food and people.  
2. To introduce unique tourist attractions in Korea.

11:00  
A-539 Computer-aided nodule detection and volumetry: role in lung cancer screening  
J.M. Goo; Seoul/KR

**Learning Objectives:**  
1. To understand basic ideas of computer-aided nodule detection and volumetry.  
2. To learn the results of computer-aided nodule detection and volumetry in nodule management.  
3. To discuss the measurement variability and related issues in nodule volumetry.

11:20  
A-540 Interlude: Introduction of the Korean Society of Thoracic Radiology (KSTR)  
J. Hur; Seoul/KR

**Learning Objectives:**  
1. To introduce the Korean Society of Thoracic Radiology (KSTR).  
2. To introduce the "Weekly Chest Cases" website.
11:25
A-541 CT in COPD: now and future
J.B. Seo, Seoul/KR
Learning Objectives:
1. To know the current role of CT in chronic obstructive pulmonary disease (COPD).
2. To know the early results of clinical researches in quantification of emphysema and airway wall inflammation with CT of COPD.
3. To know several new potential CT techniques in evaluating COPD, such as analysis of peripheral vascular changes, air trapping, diaphragmatic morphology and so on.

Panel discussion:
11:45
Is CT an effective tool for management of lung cancer screening and COPD?

10:30–12:00 Room M

RTF - Radiology Trainees Forum

TF 1  Highlighted Lectures
Moderators: M. Basta-Nikolic, Novi Sad/RS, C.A. Minoiu, Bucharest/RO

10:30
A-542 Ischemic cardiomyopathy - coronary arteries and myocardium: two sides of the same coin?
R. Marano, Rome/IT

11:00
A-543 MRI appearances of incidental focal liver lesions: role of hepatocyte-specific contrast agents and DWI
S. Gourtsoyianni, London/UK
Learning Objectives:
1. To learn about typical MRI imaging characteristics of the most commonly encountered focal liver lesions in non-cirrhotic patients.
2. To become familiar with different available MRI contrast mechanisms; including hepatocyte-specific contrast agents and DWI acquisition protocols.
3. To appreciate additional information that can be gained towards the detection and characterisation of focal liver lesions when using the aforementioned contrast mechanisms.

11:30
A-544 Radiology and sports injuries: more than reading the image!
M. Maas, Amsterdam/NL

10:30–12:00 Room N

E³ - European Diploma Prep Sessions

E³ 1423  Gastrointestinal and abdominal

10:30
A-545 Chairman’s introduction
C. Stoupis, Mannedorf/CH

Session Objectives:
1. To describe typical imaging features of benign and malignant lesions of the hepatobiliary system.
2. To differentiate the imaging features of benign and malignant lesions of the pancreas and spleen.
3. To be familiar with the methodological basis and to differentiate typical features in imaging examinations of the gastrointestinal tract.
4. To become familiar with different available MRI contrast mechanisms; including hepatocyte-specific contrast agents and DWI acquisition protocols.
5. To appreciate additional information that can be gained towards the detection and characterisation of focal liver lesions when using the aforementioned contrast mechanisms.

10:30–12:00 Room L 1

ESR Patient Advisory Group (PAG)

ESR-PAG 1 The challenges of providing true patient-centred care: moving forward together

10:30
A-552 Chairmen’s introduction
N. Bedlington, P. Cavanagh, Vienna/AT, Taunton/UK

Session Objectives:
1. To introduce a framework for delivering patient-centred care in radiology.
2. To understand the need for balance between professional responsibility and patient autonomy.
3. To understand the patient’s needs and concerns.
4. To become familiar with methods and examples of good practice and how to improve the patient-doctor relationship.

10:40
A-553 Ethics in patient-centred radiology
C.D. Claussen, Markus Schmitt, Munich/DE
Learning Objectives:
1. To learn about the basic ethical principles that guide patient-centred medical practice.
2. To understand some of the more specific ethical issues that arise in clinical radiology.
3. To develop perspectives of how to deal appropriately with these ethical issues in daily practice.
11:00
A-554 Lost in radiology: is there a doctor in the department?  
E. Briers; Hasselt/BE  
Learning Objectives:  
1. To understand the patient's needs and concerns.  
2. To learn about the importance of informed consent  
   (raise awareness and knowledge for medical imaging methods).  
3. To become familiar with methods and examples of good practice  
   and on how to improve the patient-doctor relationship.  
4. To appreciate the contributions patients and their representatives  
   can bring to realise true patient-centered care.

11:20
A-555 An ESR framework for delivering patient-centred care in radiology’s services  
P. Cavanagh; Taunton/UK  
Learning Objectives:  
1. To comprehend existing good practice regarding patient-centred  
   models in radiology.  
2. To understand the concept of driver diagrams in quality  
   improvement.  
3. To introduce this approach in patient-centred care.

11:40
Panel discussion: on the ‘driver diagram for patient-centred care  
in clinical radiology’

12:15–12:45 Room A
Plenary Session

HL 3 Nikola Tesla - Honorary Lecture  
Presiding: B. Hamm; Berlin/DE

12:15
A-556 Brain tumour update 2015: what’s new and why you should care  
A.G. Osborn; Salt Lake City, UT/US  
Learning Objectives:  
1. To understand the crucial importance of molecular profiles in the  
   new integrated approach to the diagnosis of brain tumours.  
2. To appreciate the importance of molecular profiling in stratifying  
   patients for treatment decisions.  
3. To be able to identify which imaging features may suggest  
   the preoperative diagnosis of specific tumor molecular subtypes  
   ("radiogenomics").

12:30–13:30 Room B
E³ - The Beauty of Basic Knowledge:  
Breast Imaging

E³ 25D Ductal carcinoma in situ (DCIS): small tumour but big problem  
Moderator: J. Camps Herrero; Alzira/ES

12:30
A-557 Ductal carcinoma in situ (DCIS): small tumour but big problem  
G. Forrai; Budapest/HU  
Learning Objectives:  
1. To understand the differences between DCIS and invasive ductal  
   carcinoma (IDC) in terms of pathology and imaging and the clinical  
   implications thereof.  
2. To learn the semilogic gamut of DCIS in the different techniques.  
3. To know how to stage DCIS.

14:00–15:30 Room B
E³ - ECR Master Classes  
(Abdominal and Gastrointestinal)

E³ 1526 Advances in liver imaging  
Moderator: F. Caseiro Alves; Coimbra/PT

14:00
A-561 Molecular imaging: where do we go?  
F.M.A. Kiessling; Aachen/DE  
Learning Objectives:  
1. To describe the basics of perfusion and diffusion in the liver imaging.  
2. To give an overview in clinical application on focal or  
   diffuse liver disease.  
3. To emphasise and illustrate the importance of functional imaging  
   in routine clinical practice and its potential applications over  
   morphology imaging in the future.
14:30
A-562 B. Liver perfusion or diffusion?
M. Ronot; Clichy/FR
Learning Objectives:
1. To describe the basics of perfusion and diffusion in the liver imaging.
2. To give an overview in clinical application on focal or diffuse liver disease.
3. To emphasise and illustrate the importance of functional imaging in routine clinical practice and its potential applications over morphology imaging in the future.

15:00
A-563 C. MR/PET: blessing or curse?
P.R. Ros; Cleveland, OH/US
Learning Objectives:
1. To give a specific overview of this imaging modality, expressing the cellular and functional applications of MR/PET.
2. To describe advantages and disadvantages over the other known single or fused imaging modalities (PET/CT, MRI, PET, Dual CT etc).
3. To emphasise the role of MR/PET in molecular and oncologic imaging.

14:00–15:30 Room C
E³ - ECR Academies:
Modern Imaging of the GI Tract
E³ 1522 Rectal cancer
Moderator: L. Blomqvist; Stockholm/SE

14:00
A-564 A. Imaging protocols
S. Gourtsoyianni; London/UK
Learning Objectives:
1. To become familiar with state-of-the-art MRI and US protocols for rectal cancer staging.
2. To understand the normal appearances of the rectum and perirectal tissues on cross-sectional imaging.
3. To understand the advantages and disadvantages of imaging techniques in evaluating the rectum.

14:20
A-565 B. Challenges in staging, treatment decisions and surgery for high rectal cancer
L. Curvo-Semedo; Coimbra/PT
Learning Objectives:
1. To learn about the clinical relevance of tumour height in rectal cancer.
2. To become familiar with the treatment options in high rectal cancer and their pros and cons.
3. To appreciate the challenges in staging high rectal cancer and approaches to improving staging accuracy.

14:40
A-566 C. Assessment after neoadjuvant treatment
R.G.H. Beets-Tan; Maastricht/NL
Learning Objectives:
1. To understand the role of imaging in treatment response assessment of rectal cancer.
2. To learn about imaging features which identify viable disease after chemo-radiation.
3. To appreciate the role of imaging in the modern management of patients with rectal cancer.

15:00
A-567 D. Interactive case discussion
L. Blomqvist; Stockholm/SE

14:00–15:30 Room Z
Joint Session of the ESR and ESTRO
ESR/ESTRO 1 Non-surgical approach to early lung cancer: perspectives of imaging and radiation-based disciplines
Moderators: T. Franquet; Barcelona/ES, Y. Lievens; Ghent/BE

14:00
A-568 Imaging requirements to guide non-surgical treatment in early lung cancer
C.M. Schaefer-Prokop; Amersfoort/NL
Learning Objectives:
1. To be aware of the possible spectrum of early lung cancer appearance in imaging.
2. To understand what radiologists need to know and report in order to accurately guide non-surgical treatments.
3. To understand the current role of PET-CT for managing early lung cancer.

14:20
A-569 The most up-to-date evidence from the interventional oncology perspective
R. Lencioni; Pisa/IT
Learning Objectives:
1. To understand the basic principles of the various ablation techniques.
2. To understand the indications and contradictions for lung tumour ablation, as well as to know how to choose the right ablation technique for each lesion.
3. To know the main reported procedural complications and the basics for prevention and treatment of such complications.

14:40
A-570 The most up-to-date evidence from the radiation oncology perspective
S. Senan; Amsterdam/NL
Learning Objectives:
1. To learn about the most recent radiation therapy options to treat early lung cancer.
2. To know the strengths and weaknesses of the modern radiotherapy for treatment of the early lung cancer with respect to other treatment options.
3. To understand how to effectively determine the most appropriate and personalised treatment.

15:00
A-571 Imaging follow-up of non-surgical treatments
A.R. Larici; Rome/IT
Learning Objectives:
1. To learn about the morphologic changes in imaging induced by radiation and ablation therapies in early lung cancer and at the time of their appearance.
2. To know the radiological criteria necessary to differentiate between a therapeutic response and recurrence after non-surgical treatments.
3. To understand the actual role of PET-CT in the follow-up of early lung cancer treated with non-surgical treatments.

15:20 Discussion
14:00–15:30 Room M

**Paediatric**

**RC 1512**  Key issues in paediatric imaging

14:00

A-572  Chairman’s introduction  
R.A.J. Nievelstein, Utrecht/NL  

Session Objectives:  
1. To learn about effective communication with paediatric patients, their parents or carers.  
2. To understand the importance of dose reduction parameters.  
3. To learn how to improve image quality in paediatric patients.

14:05

A-573  A. Communicating effectively with parents and carers  
J. McNulty, Dublin/IE  

Learning Objectives:  
1. To explore potential issues arising from ineffective communication by radiographers and radiologists in the medical imaging department.  
2. To consider the value of improved public relations and the marketing of medical imaging professionals to paediatric patients, their parents or carers.  
3. To review approaches to enhancing effective communication in the paediatric medical imaging environment.

14:28

A-574  B. Paediatric imaging: when less is more  
J. Portelli, Msida/MT  

Learning Objectives:  
1. To become familiar with standards of acceptable image quality.  
2. To learn about dose reduction parameters.  
3. To understand the importance of dose reduction parameters.

14:51

A-575  C. The importance of clinically acceptable image quality  
E. Sorantin, Graz/AT  

Learning Objectives:  
1. To become familiar with standards of acceptable image quality.  
2. To learn about the image quality and patient dose.  
3. To learn about the effect of poor-quality images.

Panel discussion:  
What are the essentials in education and training for paediatric imaging?

15:14

**EuroSafe Imaging Session**

**EuroSafe 3**  Dose-tracking leads the way to dose-reduction

14:00

A-580  Chairman’s introduction: dose-tracking leads to dose-reduction: why radiologists MUST get involved  
P.M. Parizel, T. De Bondt, M. Geldof, F. Deferme, Antwerp/BEL  

Session Objectives:  
1. To understand how dose tracking contributes to dose-reduction without compromising quality of care.  
2. To understand the role of radiologists in dose tracking.

14:05

A-581  The legislative environment in Europe: standards directive to dose-reduction: why radiologists MUST get involved  
D. Weishaupt, Neuherberg/DE  

Learning Objectives:  
1. To understand the challenges of implementing dose management in radiology departments.  
2. To learn from practical examples of dose management implementation.

14:20

A-582  Implementing a dose management solution in your department: where to start and what to expect?  
J. Griebel, Neuherberg/DE  

Learning Objectives:  
1. To understand which disciplines are required on a CT dose management team.  
2. To learn more about the advantages of multi-disciplinary collaboration.

14:28

A-576  Chairman’s introduction  
F.M.H.M. Vanhoenacker, Antwerp/BEL  

Session Objectives:  
1. To understand typical and atypical imaging features of traumatic disorders of the musculoskeletal system.  
2. To differentiate imaging features of benign and malignant bone tumours.  
3. To describe the typical imaging features of common bone tumours.

14:03

A-577  A. Traumatic disorders of the musculoskeletal system  
M. Maas, Amsterdam/NL  

Learning Objectives:  
1. To describe the anatomy and normal variants of the musculoskeletal system.  
2. To understand common imaging presentations of acute and chronic trauma involving the skeleton and soft tissue.  
3. To understand common pitfalls in trauma imaging of the musculoskeletal system.
**Postgraduate Educational Programme**

**14:50**

**A-584 PiDRL - European Commission Tender Project on diagnostic reference levels in paediatric imaging**  
J. Damilakis; Iraklion/GR  

**Learning Objectives:**  
1. To understand the methodology for establishing and using DRLs for paediatric imaging.  
2. To learn about the specific requirements for paediatric DRLs (in comparison to DRLs for adults).

**15:05**

**A-585 Deploying a dose management strategy across multiple sites**  
K. Katsari; Athens/GR  

**Learning Objectives:**  
1. To understand the challenges of implementing a dose management strategy in different locations.  
2. To learn more about practical examples of dose management strategies implemented across multiple sites.

**15:20**  
**Panel discussion**

**14:00–15:30 Room E1**

**Musculoskeletal**

**RC 1510 The hand and wrist**  
Moderator: A. Plagou; Athens/GR

**14:00**

**A-586 A. Patterns of injury**  
A. Navas Canete; Leiden/NL  

**Learning Objectives:**  
1. To learn more about the imaging appearances of soft tissue and osteoarticular injury.  
2. To become familiar with the patterns of bone and soft tissue injury in the hand and wrist.

**14:30**

**A-587 B. Inflammatory disorders**  
H. Guerini; Paris/FR  

**Learning Objectives:**  
1. To learn more about the imaging appearances of soft tissue and osteoarticular inflammation.  
2. To become familiar with imaging findings of specific inflammatory conditions.

**15:00**

**A-588 C. Tumours and tumour-like lesions**  
E. Llopis; Valencia/ES  

**Learning Objectives:**  
1. To learn more about the spectrum of intra and para-articular soft tissue tumours, and soft tissue tumour-like lesions.  
2. To become familiar with US and MRI findings of specific soft tissue lesions.

**14:00–15:30 Room E2**

**New Horizons Session**

**NH 15 Optical molecular imaging: a new dimension for radiology**

**14:00**

**A-589 Chairman’s introduction**  
C.-C. Glüer; Kiel/DE  

**Session Objectives:**  
1. To appreciate the versatility and power of optical imaging methods.  
2. To appreciate the difference in strengths and limitations of these methods.  
3. To become familiar with state-of-the-art preclinical imaging concepts.

**14:05**

**A-590 Reporter gene imaging**  
C.W.G.M. Löwik, E.L. Kaijzel, L. Mezzanotte; Leiden/NL  

**Learning Objectives:**  
1. To learn about the methodology of creating reporter genes.  
2. To understand the differences between reporter gene imaging and other methods of labeling used in optical imaging.  
3. To become familiar with successful examples of reporter gene imaging.

**14:30**

**A-591 Cerenkov - faster than the speed of light**  
J. Grimm; New York, NY/US  

**Learning Objectives:**  
1. To understand the method of Cerenkov imaging.  
2. To become familiar with representative applications of Cerenkov imaging.  
3. To appreciate strength and limitations of this approach compared to other methods of molecular imaging.

**14:55**

**A-592 The kiss of light and sound - optoacoustics**  
V. Ntziachristos; Munich/DE  

**Learning Objectives:**  
1. To understand the method of optoacoustics.  
2. To become familiar with representative applications of optoacoustic imaging.  
3. To appreciate the strengths and limitations of this approach compared to other methods of molecular imaging.

**Panel discussion:**  
Potential of optical imaging for translation to human applications

**14:00–15:30 Room F1**

**Special Focus Session**

**SF 15 Cardiac CT: cutting-edge techniques**

**14:00**

**A-593 Chairman’s introduction: overview of the cutting-edge techniques**  
R. Salgado; Antwerp/BE  

**Session Objectives:**  
1. To learn about new developing technologies in cardiac-CT.  
2. To understand their potential benefits and limitations in clinical practice.  
3. To learn about their current state of scientific evidence.

**14:05**

**A-594 Estimation of coronary flow reserve by CT: a new arrival**  
G. Bastarrika; Pamplona/ES  

**Learning Objectives:**  
1. To understand the principles and clinical significance of fractional flow reserve (FFR).  
2. To describe the rationale of CT-derived FFR (CT-FFR).  
3. To provide insights into the usefulness of CT-FFR to assess ischemia-causing coronary lesions.

**14:30**

**A-595 Myocardial perfusion imaging in clinical routine: ready for prime time?**  
K. Kitagawa; Mie/JP  

**Learning Objectives:**  
1. To learn about state-of-the-art imaging techniques for myocardial perfusion and viability.  
2. To appreciate clinical usefulness of comprehensive cardiac CT protocol.  
3. To get informed about current limitations of myocardial perfusion imaging by CT.
14:55
A-596 Plaque imaging with cardiac CT: coming of age?
J. Hoe; Singapore/SG

Learning Objectives:
1. To understand pathophysiology of coronary plaque and clinical effect of plaque rupture.
2. To learn how CT can be used to detect, quantify and characterise coronary plaque.
3. To become informed about clinical value and outcomes of plaque detected by CT.

Panel discussion:
Which technique will change clinical practice?

15:20
14:00–15:30 Room F2

Breast

RC 1502 Update on BI-RADS
Moderator: L.J. Pina Insuausto; Pamplona/ES

14:00
A-597 A. Mammography
U. Bick; Berlin/DE

Learning Objectives:
1. To learn about the recently updated BI-RADS® lexicon.
2. To become familiar with the mammography descriptors.
3. To understand the usefulness of the BI-RADS® categories and their clinical application.

14:30
A-598 B. Ultrasound
A. Evans; Dundee/UK

Learning Objectives:
1. To learn about the recently updated BI-RADS® lexicon.
2. To become familiar with the ultrasound descriptors.
3. To understand the usefulness of the BI-RADS® categories and their clinical application.

15:00
A-599 C. MRI
P.A.T. Baltzer; Vienna/AT

Learning Objectives:
1. To learn about the recently updated BI-RADS® lexicon.
2. To become familiar with the MRI descriptors.
3. To understand the usefulness of the BI-RADS® categories and their clinical application.

14:00–15:30 Room D1

Chest

RC 1504 Pulmonary arterial hypertension
Moderator: R. Cesar; Golnik/SI

14:00
A-600 A. An overview of pulmonary artery hypertension
N.J. Screaton; Cambridge/UK

Learning Objectives:
1. To learn about the epidemiology of pulmonary artery hypertension.
2. To become familiar with the clinical symptoms, signs and causes of pulmonary artery hypertension.
3. To appreciate the importance and difficulties of treating pulmonary artery hypertension.

14:30
A-601 B. CT in pulmonary artery hypertension
M.-P. Revel; Paris/FR

Learning Objectives:
1. To learn about the CT diagnosis of pulmonary artery hypertension.
2. To become familiar with the causes of pulmonary artery hypertension on CT.

15:00
A-602 C. MRI in pulmonary artery hypertension
P. Baltzer; Groß-Gerau/DE

Learning Objectives:
1. To learn about the MRI diagnosis of pulmonary artery hypertension.
2. To appreciate the role of MRI in the assessment of pulmonary artery hypertension.
3. To become familiar with MRI techniques in the assessment of pulmonary artery hypertension.

14:00–15:30 Room D2

Radiographers

RC 1514 CT from A to Z

14:00
A-603 Chairmen’s introduction
E. Agadakos1, M. Prokop2; 1 Athens/GR, 2 Nijmegen/NL

Session Objectives:
1. To learn about the new developments in CT technology.
2. To understand how to maximise the use of new CT technology.
3. To appreciate the importance of developing radiographers’ competencies in CT.

14:05
A-604 A. Exploring and exploiting CT technology: back to the future
D. Pekarovic, U. Zdešar; Ljubljana/SI

Learning Objectives:
1. To learn about the basics of state-of-the-art CT technology.
2. To become familiar with the newly available CT features.
3. To understand how to optimise protocols by maximising technology.

14:28
A-605 B. Patient safety in CT: radiation dose and CM administration
F. Zarb; Msida/MT

Learning Objectives:
1. To appreciate risks associated with radiation doses used with current CT scanning techniques.
2. To learn about practical methods for optimising patient radiation dose and maximising patient safety.
3. To be aware of the general risks associated with contrast media administration during CT examinations.
4. To become familiar with best practice guidelines concerning the safe use of contrast media.

14:51
A-606 C. Tips and tricks for CT optimisation
R. Booij; Rotterdam/NL

Learning Objectives:
1. To learn how to effectively use scan parameters and innovative technologies to optimise CT protocols.
2. To appreciate the need for well-educated and -trained radiographers for optimal use of CT innovations.
3. To learn about iterative reconstruction processes and their quality impact.
4. To recognise CT artefacts and learn how to deal with them.

Panel discussion:
How should a radiographer develop the interface between patient and technology?
### Neuro

**RC 1511  White spots in the brain**

*Moderator: E.T. Tali; Ankara/TR*

**14:00**

**A-607 A. White spots and blots in the brain: what are they?**

T.A. Yousry; London/UK

**Learning Objectives:**
1. To understand what white spots are.
2. To make differential diagnoses in brain white spots.
3. To demonstrate how to study patients with brain white spots.

**14:30**

**A-608 B. How can I improve my reporting of T2-hyperintense lesions?**

A. Rovira-Cañellas; Barcelona/ES

**Learning Objectives:**
1. To understand if it is possible to use a structured report with white brain abnormality.
2. To learn how to define a comprehensive imaging protocol for those patients.
3. To appreciate the role of modern imaging techniques for defining white brain hyperintense T2 lesions.

**15:00**

**A-609 C. Is there a need for quantitative reporting of white matter lesions?**

F. Barkhof; Amsterdam/NL

**Learning Objectives:**
1. To understand the importance of quantitative analysis in white matter lesions.
2. To show how to perform the quantitative analysis.
3. To understand the importance of follow-up in in patients with white matter lesions.

### E³ - ECR Academies: Hybrid Imaging (advanced)

**E³ 1518  Advanced hybrid imaging of brain**

*Moderator: G. Morana; Genoa/IT*

**14:00**

**A-610 A. Memory decline**

L. Nyberg; Umea/SE

**Learning Objectives:**
1. To learn about PET imaging in cognition.
2. To learn about advanced MRI in cognition.
3. To understand PET/MRI in cognition.

**14:30**

**A-611 B. Minimal cognitive impairment and dementia**

J.O. Rinne; Turku/FI

**Learning Objectives:**
1. To learn about PET tracers in minimal cognitive impairment (MCI) and dementia.
2. To learn about MRI in MCI and dementia.
3. To understand the role of advanced hybrid imaging in MCI and dementia.

**15:00**

**A-612 C. Brain tumours**

P. Bartenstein, N. Jansen; Munich/DE

**Learning Objectives:**
1. To learn about PET tracers in brain tumours.
2. To learn about advanced MRI in brain tumours.
3. To understand the use of advanced hybrid imaging in brain tumours.

### GI Tract

**RC 1601  From my workstation: difficult cases on review**

**16:00**

**A-615 Chairman’s introduction**

A. Maier; Vienna/AT

**16:05**

**A-616 A. Pancreas**

C. Triantopoulou; Athens/GR

**Learning Objectives:**
1. To appreciate the challenging variants in pancreatic anatomy.
2. To learn about the most important pitfalls in pancreatic imaging.
3. To understand the management of these challenging cases.

**16:28**

**A-617 B. Small bowel**

E. Biscaldi; Genoa/IT

**Learning Objectives:**
1. To learn about the normal anatomy and normal variants.
2. To learn about the most important pitfalls in imaging assessment of small bowel lesions.
3. To understand the management of these challenging cases.

**16:51**

**A-618 C. Rectum**

D.M.J. Lambregts; Maastricht/NL

**Learning Objectives:**
1. To learn about normal rectal anatomy and normal variants.
2. To learn about the most important pitfalls in imaging assessment of rectal cancer or rare tumours of the rectum.
3. To understand the management of these challenging cases.

**Panel discussion:**

What can we learn from challenging cases?
3. To understand how imaging can help radiation oncologists.

Learning Objectives:
1. To re-familiarise the listener with the origin of signal in MRI.
2. To review the artefacts and pitfalls of diffusion MRI on a qualitative basis, especially in terms of eddy currents and sensitivity to motion.
3. To understand how imaging can help radiation oncologists.

16:25
A-625 Interventional radiology in oncology: achievements and limitations
J. Ribero, Pamplona/ES
Learning Objectives:
1. To learn about the best indications for interventional radiology in oncology.
2. To learn about the results of interventional procedures in comparison to other treatment options in the most common tumours.
3. To understand how interventional radiologists and radiation oncologists can work together.

16:50
A-626 Interventional radiology and radiation oncology: working together
D. Verellen, J. de Mey, F. Vandenbroucke, N. Buls, M. De Ridder, Brussels/BE
Learning Objectives:
1. To understand the radiation oncologist's perspective regarding interventional radiology in oncology.
2. To learn about the image-guided radiotherapy technologies in comparison with other treatment.
3. To understand how radiation oncologists and interventional radiologists can work together.

Panel discussion:
The future partnership between radiology and radiation oncology

17:10

Saturday

16:00–17:30 Room M

Physics in Radiology

RC 1613 MR: artefacts and devices
Moderator: D. Bor, Ankara/TR

16:00
A-627 A. Image artefacts in MRI and their mitigation
D.J. Lurie, Aberdeen/UK
Learning Objectives:
1. To identify common types of artefacts in MR images.
2. To understand the physical origins of artefacts in MRI.
3. To learn methods of minimising artefacts on MR images.

16:30
A-628 B. Imaging around metal implants: artefact reduction in MRI
C. McGrath, Belfast/UK
Learning Objectives:
1. To re-familiarise the listener with the origin of signal in MRI.
2. To understand the concept of magnetic susceptibility and how differences between magnetic susceptibilities determine metal artefacts in MRI.
3. To understand the MRI physics of artefact reduction around metal implants.
4. To understand the parameters used in an optimised imaging protocol.

17:00

16:00–17:30 Room Z

Joint Session of the ESR and ESTRO

ESR/ESTRO 2 Radiology and radiation oncology: new chances for a partnership
Moderators: P.M.P. Poortmans, Nijmegen/NL, L. Bonomo, Rome/IT

16:00
A-623 Introduction
L. Bonomo, Rome/IT
Session Objectives:
1. To understand how collaboration between radiology and radiation oncology presents great opportunities to both the disciplines.
2. To learn how interventional radiology can achieve excellent clinical results in oncologic patients.
3. To understand how the partnership between radiology and radiation oncology offers the best treatment to patients.

16:05
A-624 Imaging in oncology: achievements and limitations
V.J. Goh, London/UK
Learning Objectives:
1. To learn about the actual capabilities of imaging for the management of oncologic patients.
2. To become familiar with functional techniques applied to oncologic patients.
3. To understand how imaging can help radiation oncologists.
**E³ - European Diploma Prep Sessions**

**E³ 1623  Breast**

**A-630  Chairman’s introduction**  
F. Pediconi; Rome/IT

*Session Objectives:*
1. To understand the methodological principles of mammography.
2. To know the mammographic appearance of benign and malignant lesions of the breast.
3. To become familiar with the imaging appearance if benign and malignant breast lesions.

**A-631  A. Fundamentals of mammography**  
S. Barter; Cambridge/UK

*Learning Objectives:*
1. To understand the anatomy, normal variants and abnormalities of the female breast.
2. To describe the technical aspects diagnostic mammography, especially in regard to dose and image quality.
3. To explain principles of current practice and risk/benefit analysis in breast cancer screening.

**A-632  B. Breast cancer diagnosis and interventions**  
M. Müller-Schimpfle; Frankfurt a. Main/DE

*Learning Objectives:*
1. To recognise the different presentation of normal breast patterns and the appearance of common benign diseases and of breast cancer at mammography, ultrasound, and MRI.
2. To understand principles and basic application of a standardised diagnostic categorization systems such as the ACR breast imaging reporting and data system (BI-RADS®).
3. To describe indications, contraindications and technical aspects of image-guided interventional breast procedures (fine needle aspiration, core needle biopsy, vacuum-assisted biopsy, presurgical localisation).

**A-633  C. Advanced imaging of the female breast**  
R.M. Mann; Nijmegen/NL

*Learning Objectives:*
1. To describe imaging techniques of the breast other than mammography and to put these into a correct diagnostic pathway.
2. To recognise the different presentations of normal breast patterns and the appearance of common benign diseases and of breast cancer at ultrasound and MRI.
3. To understand the various post-therapeutic imaging patterns of the treated breast.
4. To be familiar with the staging of breast cancer.

**Multidisciplinary Session**

**MS 16  Solving the crossword puzzle in diffuse interstitial lung disease (DILD)**

**A-634  Chairman’s introduction**  
H.-U. Kauczor; Heidelberg/DE

*Session Objectives:*
1. To become familiar with the multidisciplinary diagnosis.
2. To understand the roles of the radiologist, pulmonologist and pathologist.
3. To consolidate knowledge on the radiological patterns.

**A-635  Pulmologist’s approach: the clinical aspects**  
F.I. Herth; Heidelberg/DE

*Learning Objectives:*
1. To learn about the different aetiologies, epidemiology and prognosis.
2. To know the clinical criteria for diagnosing DILD.
3. To understand the clinical course: natural history, exacerbations, treatment options.
4. To become aware of current non-invasive diagnostic procedures.

**A-636  Pathologist’s approach and diagnosis**  
A. Gschwendtner; Amberg/DE

*Learning Objectives:*
1. To appreciate the potential of histopathology.
2. To appreciate the limitations of histopathology.
3. To learn about the role of novel molecular markers.

**A-637  Radiologist’s approach, patterns and diagnosis**  
P. Himmler; Heidelberg/DE

*Learning Objectives:*
1. To know about the appropriate protocols for CT and MRI.
2. To consolidate knowledge about the typical radiological patterns.
3. To understand the atypical radiological patterns.

**DILD-board: Multidisciplinary case presentation and discussion**

**EuroSafe Imaging Session**

**EuroSafe 4  How can clinical audit enhance patient safety?**

**A-638  Chairman’s introduction**  
E.J. Adam; London/UK

*Session Objectives:*
1. To understand the regulatory framework underpinning patient safety.
2. To gain insight into how clinical audit can be carried out, and its scope.
3. To learn how clinical audit is used in different countries and clinical settings.

**A-639  A new approach to clinical audit and safety by the ESR**  
P. Cavanagh; Taunton/UK

*Learning Objectives:*
1. To learn about the ESR’s proposed clinical audit tool.
2. To understand the role of the ESRs Audit and Standards Subcommittee.

**A-640  Models of external audit in the Netherlands**  
S. Geers-van Gemeren; Utrecht/NL

*Learning Objectives:*
1. To learn about practical examples of external audit.
2. To understand the advantages and disadvantages of external audits.

**A-641  Clinical audit in cardiac CT: the UK experience**  
S. Harden1, I. Castellano2; 1Southampton/UK, 2London/UK

*Learning Objectives:*
1. To understand issues specific to clinical audit in cardiac CT.
2. To learn from practical experiences in the UK.
16:00–17:30 Room E1

E³ - ECR Master Classes (Head and Neck)

E³ 1626a Cone-beam vs multi-detector CT in head and neck imaging

Moderator: A. Trojanowska; Lublin/PL

16:00 A-643 A. Understanding image quality and radiation dose in MDCT and CBCT
M. Kachelrieß; Heidelberg/DE

Learning Objectives:
1. To review the working of multi-detector computed tomography (MDCT).
2. To understand the basic principles of cone-beam CT (CBCT).
3. To become familiar with strategies for dose optimisation in CT.

16:35 A-644 B. My finest cone-beam CT cases
J. Casselman1, B. De Foer2; 1Bruges/BE, 2Antwerp/BE

16:55 A-645 C. What can be missed on cone-beam CT: pitfalls and challenges
R. Maroldi; Brescia/IT

Learning Objectives:
1. To discuss exclusion criteria for CBCT scanning.
2. To learn about pitfalls in CBCT imaging.

17:15 Panel discussion: Cone-beam vs multi-detector CT: pros and cons
A. Trojanowska; Lublin/PL

16:00–17:30 Room E2

Special Focus Session

SF 16 Imaging biomarkers in degenerative joint disease

16:00 A-647 Chairman’s introduction
S. Trattnig; Vienna/AT

Session Objectives:
1. To provide an overview of possible quantitative imaging biomarkers in the musculoskeletal system.
2. To discuss the requirements of imaging biomarkers in degenerative diseases of the musculoskeletal system.
3. To present the clinical impact of imaging biomarkers in degenerative diseases of the musculoskeletal system.

16:05 A-648 Proteoglycan-specific quantitative imaging in osteoarthritis and cartilage repair - part 1
E.H.G. Oei; Rotterdam/NL

Learning Objectives:
1. To learn about the basic principles of delayed gadolinium-enhanced MRI of cartilage (dGEMRIC).
2. To learn about imaging protocol issues and analysis methods for dGEMRIC.
3. To understand the advantages and disadvantages of dGEMRIC for clinical research and patient care.
4. To appreciate the additional value of dGEMRIC for the follow-up of cartilage repair procedures.

17:14 Panel discussion: What are the new imaging biomarkers in degenerative MSK disease?

16:00–17:30 Room F1

State of the Art Symposium

SA 16 Controversies in comprehensive imaging of coronary artery disease

16:00 A-651 Chairman’s introduction: what is the evidence?
M. Dewey; Berlin/DE

Session Objectives:
1. To appreciate the different modalities used for coronary disease imaging.
2. To understand the open research questions for coronary disease imaging.
3. To learn what coronary disease imaging could look like in the future.

16:05 A-652 Computed tomography is all you need
H. Alkadhi; Zürich/CH

Learning Objectives:
1. To understand the high diagnostic accuracy of coronary CT angiography.
2. To learn about the great clinical potential of CT to rule out significant coronary stenosis.
3. To appreciate in which patients CT may become the single test needed for coronary disease imaging.
16:28 A-653 Magnetic resonance will take the lead
M. Francone; Rome/IT
Learning Objectives:
1. To understand the unique comprehensive potential of MRI for coronary disease.
2. To learn about the high accuracy of MRI to assess myocardial ischaemia.
3. To appreciate in which patients MRI may become the single test needed for coronary disease imaging.

16:51 A-654 Hybrid nuclear imaging shows no defeat
S. Kajander; Turku/FI
Learning Objectives:
1. To understand the high accuracy and prognostic power of nuclear imaging.
2. To learn about how hybrid imaging can guide therapy.
3. To appreciate in which patients hybrid imaging may become the single test needed for coronary disease imaging.

17:14 Panel discussion:
Imaging of coronary artery disease in 2020

16:00–17:30 Room F2
E³ - ECR Master Classes (Breast)

E³ 1626b Breast imaging: improving the information to women

A-663 A. How to image epilepsy in children and adults
K. Koprivsek; Sremska Kamenica/RS
Learning Objectives:
1. To explain how to study patients affected by epileptic seizures.
2. To explain the difference between sequences and when to perform contrast media injection.
3. To show different diagnostic strategies in paediatric and adult populations.

16:05 A-661 A. MRI sequences made easy
S. Brandão; Porto/PT
Learning Objectives:
1. To consolidate in-depth knowledge of the basic principles of MRI sequences.
2. To recognise main applications, advantages and disadvantages of different MRI sequences.
3. To understand the main types of pulse sequences currently in use.

16:25 A-657 B. Breast density, interval cancers, and underdiagnosis
K. Pinker-Domenig; Vienna/AT
Learning Objectives:
1. To learn how to inform women about breast density as a masking factor.
2. To learn how to inform women about the role of breast density as a risk factor.
3. To learn how to inform women about interval cancers and underdiagnosis.

16:45 A-658 C. Preoperative breast MRI
K. Pinker-Domenig; Vienna/AT
Learning Objectives:
1. To become familiar with the debate about preoperative breast MRI.
2. To learn how to inform women about potential advantages of preoperative breast MRI.
3. To learn how to inform women about potential disadvantages of preoperative breast MRI.

16:00–17:30 Room D2
Radiographers
RC 1614 MRI from the cradle to the future

16:00 A-659 Chairmen’s introduction
B. Hafslund; Nesttun/NO, M. Maas; Amsterdam/NL
Session Objectives:
1. To learn about MRI basic principles and state-of-the-art technology.
2. To understand the role of fMRI in clinical settings.
3. To appreciate the importance of safety procedures in MRI settings.

16:05 A-660 A. MRI sequences made easy
S. Brandão; Porto/PT
Learning Objectives:
1. To consolidate in-depth knowledge of the basic principles of MRI sequences.
2. To understand main applications, advantages and disadvantages of different MRI sequences.
3. To understand the main types of pulse sequences currently in use.

16:51 A-662 A. MRI sequences made easy
S. Brandão; Porto/PT
Learning Objectives:
1. To understand the basic principles of fMRI.
2. To become familiar with clinical applications of fMRI.
3. To be aware of future developments and research priorities in fMRI.

16:05 A-661 A. Safety in MRI: all you have to know
C. Vandulek; Kaposvár/HU
Learning Objectives:
1. To describe common hazards and dangers associated with MRI environment.
2. To understand procedures for screening patients prior to performing MRI exams.
3. To learn about guidelines and safety recommendations to prevent accidents and injuries.
4. To become familiar with MRI safety and preventive measures.

17:14 Panel discussion:
What to expect from MRI in the future of medical imaging?

16:00–17:30 Room G
E³ - ECR Master Classes (Neuro)

E³ 1626c Epilepsy
Moderator: T. Stosic-Opincal; Belgrade/RS

16:00 A-663 A. How to image epilepsy in children and adults
K. Koprivsek; Sremska Kamenica/RS
Learning Objectives:
1. To explain how to study patients affected by epileptic seizures.
2. To explain the difference between sequences and when to perform contrast media injection.
3. To show different diagnostic strategies in paediatric and adult populations.
16:30  
**A-664**  B. How to report MRI in patients with epilepsy  
D. Zlatareva; Sofia/BG  
**Learning Objectives:**  
1. To understand if it is possible to use a structured report in those patients.  
2. To explain the medico-legal value of your report.  
3. To demonstrate the importance of the report at follow-up.

17:00  
**A-665**  C. MRI, electroclinical and neuropathological correlations  
N. Colombo; Milan/IT  
**Learning Objectives:**  
1. To understand the importance of a multimodality approach in patients with epilepsy.  
2. To show the importance of high field MR in those patients.  
3. To show MR and neuropathological correlation.

16:00–17:30  Room K  
**E³ - ECR Academies:**  
**Hybrid Imaging (advanced)**  
**E³ 1618**  Advanced hybrid imaging in oncology  
Moderator: K. Ahlström Riklund; Umeå/SE

16:00  
**A-666**  A. In female pelvis  
P.R. Ros; Cleveland, OH/US  
**Learning Objectives:**  
1. To learn about indications for PET/CT and PET/MR in female pelvis.  
2. To become familiar with evaluation.  
3. To understand where MR/PET may be advantageous over PET/CT.

16:30  
**A-667**  B. In head neck cancer  
M. Becker; Geneva/CH  
**Learning Objectives:**  
1. To learn about indications for PET/CT and PET/MR in head-neck cancer.  
2. To become familiar with evaluation of head-neck imaging data.  
3. To understand where PET/MR may be beneficial over other imaging of head-neck cancer.

17:00  
**A-668**  C. Modern planning of radiation treatment  
U. Nestle; Freiburg/DE  
**Learning Objectives:**  
1. To learn about dose painting in radiation treatment.  
2. To understand the role of hybrid imaging in radiation treatment planning.  
3. To understand potential strength of hybrid imaging in radiation treatment.
### Sunday

#### 08:30–10:00 Room A

**E³ - ECR Academies: Interactive Teaching Sessions**

**E³ 1721 Cardiac CT: from stenosis assessment to risk stratification**

**08:30**

<table>
<thead>
<tr>
<th>A-669</th>
<th>A. CT for risk stratification</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Marano</td>
<td>Rome/IT</td>
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</tbody>
</table>

**Learning Objectives:**
1. To learn the different criteria for risk stratification.
2. To learn the practical way of doing image assessment.

<table>
<thead>
<tr>
<th>A-670</th>
<th>B. Cardiac CT in the emergency room</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. Feuchtner, F. Plank</td>
<td>Innsbruck/AT</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To understand the imaging technique.
2. To become familiar with the differential diagnosis.

#### 08:30–10:00 Room B

**Abdominal Viscera**

**RC 1701 Colorectal cancer liver metastases: assessing tumour response**

**08:30**

<table>
<thead>
<tr>
<th>A-671</th>
<th>A. Current treatment options</th>
</tr>
</thead>
<tbody>
<tr>
<td>T.K. Helmberger</td>
<td>Munich/DE</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To understand the different scenarios in which liver metastases may present in relation to patient prognosis and therapeutic options.
2. To understand the existing therapeutic approaches to liver metastases in different scenarios.

<table>
<thead>
<tr>
<th>A-672</th>
<th>B. Morphological biomarkers</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Skehan</td>
<td>Dublin/IE</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To learn about the algorithm for detecting and characterising liver metastases.
2. To understand conventional imaging criteria for assessing tumour response.
3. To learn about the rationale for monitoring patients after radical and palliative treatments.

<table>
<thead>
<tr>
<th>A-673</th>
<th>C. Functional biomarkers</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.-M. Koh</td>
<td>Sutton/UK</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To understand the different functional imaging techniques that can be used to monitor response to therapy including perfusion, diffusion MRI and PET/CT.
2. To learn about efficient algorithms for assessing therapeutic response of liver metastases that influence prognosis.
3. To understand how functional biomarkers are incorporated into multicentric trials.

**Panel discussion:**

The "vanishing" lesions: what should you do?

#### 08:30–10:00 Room C

**E³ - ECR Academies: Modern Imaging of the GI Tract**

**E³ 1722 Gastrointestinal stromal tumours (GIST)**

**Moderator: M. Zins, Paris/FR**

**08:30**

<table>
<thead>
<tr>
<th>A-675</th>
<th>A. Pathology and treatment options</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Seddon</td>
<td>London/UK</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To learn about the prevalence and typical location of GIST tumours.
2. To understand the histological and genetic characteristics of GIST tumours and the differential diagnosis.
3. To become familiar with the treatment options for GIST tumours.

<table>
<thead>
<tr>
<th>A-676</th>
<th>B. Disease staging and treatment planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. Hoeffel</td>
<td>Reims/FR</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To appreciate the imaging modalities available for staging GIST tumours, and to understand the advantages and disadvantage of each.
2. To learn about optimised acquisition protocols.
3. To become familiar with the imaging differential diagnosis of GIST tumours and the role of biopsy.
4. To appreciate the radiological staging of GIST tumours, including typical sites of metastatic disease.

<table>
<thead>
<tr>
<th>A-677</th>
<th>C. Treatment response assessment and disease follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Graser</td>
<td>Munich/DE</td>
</tr>
</tbody>
</table>

**Learning Objectives:**
1. To understand the role of imaging in disease treatment response assessment and the pros and cons of available modalities.
2. To appreciate the imaging criteria used in the assessment of disease response.
3. To learn how imaging can help guide appropriate therapy.

<table>
<thead>
<tr>
<th>A-678</th>
<th>D. Interactive case discussion</th>
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<tbody>
<tr>
<td>M. Zins</td>
<td>Paris/FR</td>
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**Postgraduate Educational Programme**

### 08:30–10:00  Room Z

**EDiR talk**  FA(b)Q frequently asked (burning) questions - with answers  

08:30  
A-679  Questions about registration  
Y. Menu, F. Jordan; Paris/FR, Barcelona/ES

08:45  
A-680  Questions about preparation  
W. Schima, Vienna/AT

09:00  
A-681  Questions about written examination  
S. Barter, Cambridge/UK

09:15  
A-682  Questions about oral examination  
L. McKnight, Swansea/UK

09:30  
A-683  Questions about the future  
Y. Menu, V. Iranzo; Paris/FR, Barcelona/ES

09:45  
A-684  Panel discussion: More FA(b)Q and its answers  
J. Vilar, Valencia/ES

### 08:30–10:00  Room M

**Paediatric**

**RC 1712  Imaging the head and skull base**  
Moderator: J.W. Casselman, Bruges/BE

08:30  
A-685  A. Faciocraniosynostoses revisited  
F. Di Rocco, E. Arnaud; Paris/FR

Learning Objectives:  
1. To learn about the imaging patterns of faciocraniosynostoses.  
2. To learn how and when to image.  
3. To become familiar with associated brain anomalies.

09:00  
A-686  B. All about the paediatric pituitary gland  
M. Jeyrampalan, Ioannina/GR

Learning Objectives:  
1. To become familiar with age-related changes of the normal pituitary gland.  
2. To learn about congenital and acquired pathology of the hypothalamo-pituitary axis.  
3. To understand the pathophysiologic substrate of different imaging patterns.

09:30  
A-687  C. Imaging of the orbit: the globe and the lacrimal gland  
P. Cotten, Lille/FR

Learning Objectives:  
1. To understand the embryology and imaging findings of the most common malformations.  
2. To learn about space-occupying lesions and the differential diagnosis of tumours and inflammatory conditions.  
3. To be aware of the role of conventional and advanced MR sequences in the diagnostic approach to lesions in the orbit.

### 08:30–10:00  Room Studio 2015

**Joint Session of the ESR and ERS**

**Lung cancer screening: why and how to implement a comprehensive preventive programme**  
Moderators: M. Prokop, Nijmegen/NL, J.-P. Sculier, Brussels/BE

08:30  
A-688  Should we do lung cancer screening now? The evidence  
C.J. Herold, Vienna/AT

Learning Objectives:  
1. To learn about the evidence generated by randomised controlled trials using CT.  
2. To appreciate the caveats of the current evidence.  
3. To understand the potential impact of the evidence on health-care in Europe.

08:52  
A-689  CT requirements and nodule workup  
F. Gleeson, Oxford/UK

Learning Objectives:  
1. To consolidate knowledge of the requirements of a standardised quality-controlled low dose CT protocol.  
2. To become familiar with the challenges of CAD-supported measurements of size, volume and growth.  
3. To acknowledge the rationale for follow-up intervals for positive CT scans.

09:14  
A-690  Diagnostic and treatment approaches to lesions found in CT screening  
F. Herth, Heidelberg/DE

Learning Objectives:  
1. To appreciate the size-adapted approach to diagnose and treat lesions found at CT.  
2. To understand the limitations of diagnosis and the possibility of overdiagnosis.  
3. To become familiar with the possibility of complications during diagnostic work-up and treatment.

09:36  
A-691  Designing a screening programme  
N. Peled, Tel-Aviv/IL

Learning Objectives:  
1. To appreciate the rationale for a longitudinal and comprehensive preventive programme.  
2. To learn about the possibilities to increase pretest probability, e.g. novel biomarkers.  
3. To understand the potential of broadening the scope of the CT-read-outs.

### 08:30–10:00  Room E1

**E³ - ECR Master Classes (Musculoskeletal)**

**E³ 1726  Osteomyelitis vs gout: what are the pearls?**  
Moderator: L.M. Sconfienza, Milan/IT

08:30  
A-695  A. X-ray: classical patterns and challenging features  
A. Cotten, Lille/FR

Learning Objectives:  
1. To review the appearance of gouty changes.  
2. To learn more about differential diagnosis.
A-696  B. MRI features and their differential diagnosis
S.J. Ostlere; Oxford/UK

Learning Objectives:
1. To learn more about the appearance of gout using MRI.
2. To become familiar with differential diagnosis in acute settings.

A-697  C. Ultrasound and DECT features in gout
A. Plasch; Innsbruck/AT

Learning Objectives:
1. To review the appearance of gouty changes in DECT.
2. To understand strengths and weakness of US.

08:30–10:00  Room E2

New Horizons Session

NH 17  Comprehensive personalised imaging of cardiothoracic diseases

08:30
A-698  Chairman’s introduction: how to prepare for the future?
T. Benedek; Targu-Mures/RO

Session Objectives:
1. To understand the unique potential of radiologists to comprehensively assess cardiothoracic diseases.
2. To learn about the diversity of etiologies that can be addressed by radiology.
3. To appreciate the comprehensive approach needed for having clinical utility by imaging cardiothoracic diseases.

08:53
A-700  Patients with acute and chronic chest pain
C. Loewe; Vienna/AT

Learning Objectives:
1. To understand the clinical utility of CT and MRI in acute chest pain.
2. To understand the clinical utility of CT and MRI in chronic chest pain.
3. To appreciate comprehensive assessment of anatomy and function feasible in chest pain patients.

09:11
A-701  Patients with chronic shortness of breath
E.J.R. van Beek; Edinburgh/UK

Learning Objectives:
1. To become familiar with the most frequent diseases leading to chronic shortness of breath.
2. To consolidate knowledge about the etiologies of pulmonary hypertension and end-stage lung disease.
3. To understand the appropriate application of radiological imaging in the comprehensive diagnosis of chronic shortness of breath.

09:29
A-702  Early detection for cardiothoracic disease in smokers
M. Rémy-Jardin; Lille/FR

Learning Objectives:
1. To become familiar with the broad spectrum of smoking-related diseases in the chest.
2. To learn about comprehensive imaging protocols for diagnoses of all smoking-related diseases of lung, heart and vessels.
3. To appreciate the necessity of software tools for computer-assisted detection and quantitation: opportunities and limitations.

Panel discussion:
Comprehensive imaging and education in cardiothoracic diseases

08:30–10:00  Room F1

Special Focus Session

SF 17b  Congenital heart disease: from infancy to adulthood

08:30
A-703  Chairman’s introduction
M. Haliloglu; Ankara/TR

Session Objectives:
1. To recognise the role of multimodality imaging in congenital heart disease.
2. To become familiar with the common features of congenital heart disease.
3. To understand how to evaluate postoperative patients with congenital heart disease.

09:00
A-705  Segmental approach to MR imaging of congenital heart disease
A.M. Taylor; London/UK

Learning Objectives:
1. To learn about MR techniques.
2. To become familiar with the benefits and limitations of MR imaging.
3. To understand MR imaging features.

09:25
A-706  Imaging of congenital heart disease in adults
S. Leschka; St. Gallen/CH

Learning Objectives:
1. To become familiar with imaging features of adult patients.
2. To understand imaging characteristics of postoperative patients.
3. To learn about management in terms of diagnostic approaches in adult patients with postoperative assessment.

Panel discussion:
What is the impact of radiologists in the evaluation of congenital heart disease?
08:30–10:00  Room F2

**Breast**

**RC 1702  Emerging breast imaging technologies**  
Moderator: P. Skaane; Oslo/NO

**08:30**

**A-707  A. Digital breast tomosynthesis (DBT)**  
D. Bernardi; Trento/IT

**Learning Objectives:**
1. To become familiar with the technique of DBT.
2. To understand the results of DBT in the screening and diagnostics settings.
3. To learn about the potential role of DBT in the breast radiological algorithm.

**09:00**

**A-708  B. Multiparametric high-field MRI and more**  
T.H. Helbich; Vienna/AT

**Learning Objectives:**
1. To understand the management of breast lesions based on current MRI applications.
2. To learn how to improve the specificity of breast MRI by adding new developing techniques.
3. To appreciate future developments and limitations.

**09:30**

**A-709  C. High-resolution radionuclide breast imaging (PEM and molecular imaging)**  
M. Herranz, I. Dominguez-Prado, S. Arribay-Vazquez, P. Aguiar, A. Ruibal; Santiago/ES

**Learning Objectives:**
1. To become familiar with the current status: what is available and how does it work?
2. To understand the indications: local staging, distant staging, therapy monitoring and limitations.
3. To learn about future prospects: MR/PET and targeted tracers.

08:30–10:00  Room D1

**Special Focus Session**

**SF 17a  Metabolic bone diseases**

**08:30**

**A-710  Chairman’s introduction**  
G. Guglielmi; Andria/IT

**Session Objectives:**
1. To become familiar with recognising fractures in metabolic bone diseases.
2. To understand the role of malabsorption on fracture risk.
3. To learn the impact of metabolic bone diseases on bone quality.

**08:58**

**A-715  A. Clinical indications of PET/CT**  
P.H. Hogg; Manchester/UK

**Learning Objectives:**
1. To become familiar with contemporary indications of PET/CT in diagnosis and radiotherapy planning.
2. To appreciate the bases of PET radiopharmaceutical localisation in molecular imaging.
3. To be aware of the potential of PET/CT in molecular imaging.

**09:44**

**A-717  C. Safety in PET/CT**  
A. Bazzocchi; Bologna/IT

**Learning Objectives:**
1. To understand the principles of PET/CT technology.
2. To learn about PET/CT safety procedures.
3. To become familiar with the knowledge, skills and competences needed to apply radiation protection measures for staff and patients in PET/CT.

**Panel discussion:**
What is the role of a radiographer in PET/CT?

**08:30–10:00  Room D2

**Radiographers**

**RC 1714  Looking into PET/CT**

**08:30**

**A-714  Chairmen’s introduction**  
K. Åhlström Riklund1, D. Pekarovic2; 1Umea/SE, 2Ljubljana/SI

**Session Objectives:**
1. To learn about PET/CT procedures and the clinical indications.
2. To be aware of the importance of a quality control program and safety principles in PET/CT.
3. To understand the role of radiographers in PET/CT.

**08:58**

**A-716  B. Quality control for PET/CT**  
W.J.M. van den Broek; Nijmegen/NL

**Learning Objectives:**
1. To understand how a successful Quality Assurance (QA) programme will reduce image artefacts.
2. To become familiar with the range and performance frequency of quality control procedures that should be conducted on PET/CT devices.
3. To comprehend how the most frequently required PET quality control procedures should be conducted.
4. To be aware of the tolerance criteria and actions to be taken if these tolerance criteria are exceeded.

**Panel discussion:**
What is the role of a radiographer in PET/CT?
Neuro

RC 1711  Screening for cerebral aneurysms
Moderator: A. van der Lugt; Rotterdam/NL

08:30
A-718  A. Who are the patients that I should screen for aneurysms? Why should I screen?
What are the medicolegal ramifications?
M. Muto, G. Guarnieri; Naples/IT
Learning Objectives:
1. To understand which patients with cerebral aneurysms should be screened, and why.
2. To explain the medicolegal issue of screening patients with cerebral aneurysms.
3. To demonstrate how long screening and follow-up are necessary in those patients.

09:00
A-719  B. Which technique to use? CT angiography, time-of-flight MR angiography, contrast-enhanced MR angiography, catheter angiography
M. Vanrooym, T. van der Zijden, O. d'Archambeau, C. Venstermans, R. De Belder, L. Van den Hauwe, J. Van Goethem, R. Salgado, P.M. Parizel; Antwerp/BE
Learning Objectives:
1. To understand the potential ways to screen those patients.
2. To become familiar with how to report abnormal findings.
3. To clarify in which cases it is necessary to perform cerebral angiography.

09:30
A-720  C. The interventional neuroradiology perspective on diagnosis, management and follow-up
L. Pierot, S. Soize, A. Benaissa; Reims/FR
Learning Objectives:
1. To show the point of view of interventional neuroradiology reporting vascular pathology.
2. To understand when to treat those aneurysms.
3. To explain why it is important to follow up with those patients.

Special Focus Session

SF 17c  Technology for supporting clinical research in radiology

08:30
A-721  Chairman’s introduction
D. Caramella; Pisa/IT
Session Objectives:
1. To understand the challenges and opportunities of the different information technology that can be used for facilitating clinical research in radiology.
2. To become familiar with the limitations of current information technology for supporting research.
3. To appreciate the opportunities of innovative approaches to clinical research.

08:35
A-722  Online tools and software solutions for effective clinical research
A. Scarsbrook; Leeds/UK
Learning Objectives:
1. To become familiar with a range of web-based tools which provide efficient ways of staying up-to-date with and searching for relevant scientific literature.
2. To review a range of free (open-source) software which can be effectively utilised to support clinical research in radiology.

08:58
A-723  PACS for research
D. Regge; Turin/IT
Learning Objectives:
1. To understand how research can be enhanced with PACS.
2. To learn about the advantages and difficulties of using PACS for research purposes.
3. To review the technical requirements to achieve inter-connectivity and give practical examples on the use of PACS in clinical research.

09:21
A-724  Using electronic case report forms for clinical imaging trials
T. Bauerle; Erlangen/DE
Learning Objectives:
1. To understand the fundamentals of electronic case report forms.
2. To learn about how to set up electronic case report forms for clinical trials in radiology.
3. To understand the added value of working with clinical research organisations.

Panel discussion:
Are online tools, PACS, or electronic case report forms suitable for clinical research?

10:30–12:00 Room A
E³ - ECR Academies:
Interactive Teaching Sessions

E³ 1821  Evaluation of patients with lung emphysema

10:30
A-725  A. Pretherapeutic evaluation of lung emphysema
M. Prokop; Nijmegen/NL
Learning Objectives:
1. To understand the different types of lung emphysema.
2. To quantify the lung emphysema.

11:15
A-726  B. Diagnostic work-up after treatment of lung emphysema
N. Sverzellati; Parma/IT
Learning Objectives:
1. To learn the different types of treatment for lung emphysema.
2. To recognise the complications of treatment.

10:30–12:00 Room B
ESR meets Turkey

EM 4  Turkey welcomes ECR
Welcome by the ESR President
L. Bonomo; Rome/IT
Presiding:
A. Coskun; Kayseri/TR
B. Hamm; Berlin/DE

10:30
A-727  Introduction
A. Coskun; Kayseri/TR
Session Objectives:
1. To summarise the history of the TSR.
2. To explain radiology education in Turkey.
3. To give an overview of the radiological service quality in Turkey.
Postgraduate Educational Programme

10:35
A-728 Liver hydatid cysts: percutaneous treatment
O. Akhan, Ankara/TR
Learning Objectives:
1. To learn about the epidemiology and some structural characteristics of the disease.
2. To appreciate the importance of imaging, classifications and stage-specific approach.
3. To become familiar with the indications and techniques for the percutaneous treatment.
4. To learn about the results of percutaneous treatment in comparison with surgical results.
5. To understand complications of percutaneous treatment and their management.

11:00
A-729 Advanced hepatopancreaticobiliary imaging
S.M. Ertürk, Istanbul/TR
Learning Objectives:
1. To understand novel imaging approaches that are used in the diagnostic work-up of pathologies of the liver, pancreas and biliary system.
2. To understand state-of-the-art imaging algorithms regarding the pathologies of liver, pancreas, and biliary system.
3. To learn pearls and pitfalls regarding the imaging of the hepatopancreaticobiliary system.

11:45 Panel Discussion

10:30–12:00 Room L 1

ESR Patient Advisory Group (PAG)

ESR-PAG 2 Communicating the results of radiological studies to patients: from high-tech to human touch imaging

10:30
A-737 Chairmen’s introduction
M. Forsting, Essen/DE
Session Objectives:
1. To understand imaging features of benign and malignant tumours of the brain and spine.
2. To understand imaging features of traumatic injury to the brain and spine.
3. To present the need for psychological support for women treated for breast cancer and to discuss the position of the radiologist from the point of view of the chair of the patient group dedicated to providing psychological support to women with breast cancer.

10:40
A-738 Who is the patient of the radiologist?
L.E. Derchi, Genova/IT
Learning Objectives:
1. To understand the importance of informed consent.
2. To learn how the patient wants to be informed by the radiologist to a patient.

11:00
A-739 Communicating results of radiological studies to the patient with breast cancer: view of the patient who is also a physician
A. Balenovic, Zagreb/HR
Learning Objectives:
1. To present a personal experience regarding communication by a radiologist at the time diagnosis was established and during follow-up examinations.
2. To present the need for radiological presentation of mammographic findings, communication during ultrasound examinations, core biopsy of the breast, and breast MRI from the patient's point of view.
3. To present the need for psychological support for women treated for breast cancer and to discuss the position of the radiologist from the point of view of the chair of the patient group dedicated to providing psychological support to women with breast cancer.
11:20
A-740 Brain disorder - the communication challenge
D. Walsh1, M. Messmer-Wullen2; 1 Brussels/BE, 2 Lochau/AT

Learning Objectives:
1. To understand how communication with those affected by brain disorders is especially challenging - in terms of the neurological deficits of patients, coupled with the complexity of the pathology and the severity of the diagnosis.
2. To appreciate that doctors and patients have different views on what makes good and effective communication, and to discuss ways in which these differences can be bridged.
3. To learn what steps patient organisations are taking to improve the communication and understanding for both patients and doctors, and to explore how the health professionals can become involved.

Panel discussion:
From high-tech to human touch - how do we ensure this transition and what are the roles for the ESR and member societies?

14:00–15:30 Room N

E³ - European Diploma Prep Sessions

14:00
A-743 Chairman’s introduction
P. Vock; Spiegel/CH

Session Objectives:
1. To understand the technical and methodological principles of computed tomography.
2. To understand the technical and methodological principles of magnetic resonance tomography.
3. To know the principles of radiation biology and radiation protection.

A-744 A. Principles of computed tomography
W.A. Kalender; Erlangen/DE

Learning Objectives:
1. To have an understanding of the physical basis of image formation of computed tomography and of the physics of helical, multidetector and dual-source CT.
2. To explain the scale of Hounsfield units and the principle of window centre and width.
3. To list the major sources of artefacts in CT.
4. To describe the principles of optimising protocols for a variety of CT scanner types and examination including the principles of contrast media application, reconstruction algorithms and kernels.

A-745 B. Principles of magnetic resonance imaging
T. Metens; Brussels/BE

Learning Objectives:
1. To have a basic understanding of the physical basis of image formation in MRI including the principles of pulse sequences and relaxation times.
2. To describe the principles and main diagnostic applications for the most commonly used sequences in MRI, including T2-weighted sequences, T1-weighted sequences, FLAIR sequences, other inversion recovery sequences, T2* / susceptibility weighted sequences and MR angiography sequences.
3. To describe typical artefacts on MR imaging and to discuss their respective causes.
4. To explain absolute or relative contraindications against MR imaging and safety issues in the MR environment with regard to patients and staff.

A-746 C. Radiation protection
M. Mahesh; Baltimore, MD/US

Learning Objectives:
1. To explain the phenomena of x-ray interaction with matter and the consequences for image generation, image quality and radiation exposure.
2. To describe types and magnitudes of radiation exposure from natural and artificial sources and the concepts of dose determination and dose measurement for patients, occupationally exposed personnel and the public.
3. To describe types and magnitudes of radiation risk from radiation exposure in medicine.
4. To describe the basic principles of radiation protection, as outlined by the ICRP (International Commission on Radiological Protection).
5. To explain the concepts and tools for dose management in radiology with regard to adult and paediatric patients.
Scientific Sessions and Late-Breaking Clinical Trials

Session numbers are prefixed by SS
Presentation numbers are prefixed by the letter B
The Late-Breaking Clinical Trials session is listed at the end of this section. (page 313)
### Abdominal Viscera

**SS 201a  Liver MRI**

**Moderators:** S. Phoa, Amsterdam/NL, F. Reiguera, Florence/IT

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<th>Speaker</th>
<th>Institution(s)</th>
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<tr>
<td>B-0004</td>
<td>Gd-EOB-DTPA-enhanced liver MRI for prediction of liver growth after portal vein occlusion</td>
<td>B.K. Barth, M.A. Fischer, C.S. Reiner</td>
<td>Zurich/CH</td>
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<tr>
<td>B-0005</td>
<td>T1 segmental hyperintensity in liver cholestasis on MRI: in vitro explanation</td>
<td>I.L. Grabowsky, O.N. Sergeeva, V. Panov, I.E. Tyurr, D. Dolaushin</td>
<td>Moscow/RU</td>
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<tr>
<td>B-0006</td>
<td>Quantitative analysis of diffusion-weighted MRI at 3T: which parameter is more useful in differential diagnosis of focal solid liver lesions?</td>
<td>P.K. Lomovtseva, N.A. Karetskaya, D.G. Karmakarov, Vidnoe/RU</td>
<td>Moscow/RU</td>
</tr>
<tr>
<td>B-0008</td>
<td>Performance of magnetic resonance elastography for the staging of liver fibrosis: in terms of comparison between patients with chronic hepatitis B and those with other etiologies</td>
<td>W. Chang, J. Lee, J. Han, B. Choi</td>
<td>Seoul/KR</td>
</tr>
<tr>
<td>B-0009</td>
<td>Characterisation and evaluation of longitudinal extent of perihilar biliary strictures: does diffusion-weighted MRI provide additional value?</td>
<td>P. Choi, J. Lee, J. Joo, J. Han, B. Choi</td>
<td>Seoul/KR</td>
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### Breast

**SS 202a  Imaging for neoadjuvant chemotherapy**

**Moderators:** P. Martinez-Miravete, Zaragoza/ES, F. Thibault, Paris/FR

<table>
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<tr>
<td>B-0011</td>
<td>An increased flip angle in late phase Gd-EOB-DTPA MRI shows improved performance in bile duct visualisation compared to T2w-MRCP</td>
<td>L. Steinbrüchel, P. Freyhardt, C. Grieser, T. Walter, D. Seehofer, T. Denecke</td>
<td>Berlin/DE</td>
</tr>
<tr>
<td>B-0012</td>
<td>Predictability of complete response through apparent diffusion coefficient measured before neoadjuvant chemotherapy in breast cancer depends on tumour phenotype</td>
<td>E. Rubi, P. Belli, M. Costantini, A. Cipani, A. Bonatesta, G. Franceschini, D. Terrible, L. Bonorno</td>
<td>Rome/IT</td>
</tr>
<tr>
<td>B-0014</td>
<td>What happens to the DCIS in HER 2 positive cancers treated with NACT and trastuzumab?</td>
<td>R. Millikan-Slater, H. Honjan, M. McMahon, D. Dodwell, B. Dall, N. Sharma</td>
<td>Leeds/UK</td>
</tr>
<tr>
<td>B-0015</td>
<td>Breast MRI in the evaluation of patients undergoing neoadjuvant chemotherapy: assessment of tumour features and predictive markers of response according to histopathology</td>
<td>E. Brach, C. Losio, F. Ballati, M. Panzen, G. Cristel, M. Rodighiero, F. De Cobelli, A. Del Maschio</td>
<td>Milan/IT</td>
</tr>
<tr>
<td>B-0018</td>
<td>A new parameter to assess response to neoadjuvant chemotherapy by quantitative vascular mapping in patients with locally advanced breast cancer</td>
<td>C. Reberatu, G. Gennaro, L. Evangelista, E. Brezzi, I. Polico, L. Pescarini</td>
<td>Padova/IT</td>
</tr>
</tbody>
</table>
11:34
B-0020 Factors influencing the accuracy of magnetic resonance imaging in the assessment of disease response following neoadjuvant chemotherapy in early and locally advanced breast cancer
J. Murphy, K. James, P. Nicholson, L. Duddy, N. Marshall, M.F. Ryan, J. Barry, Cork/IE

11:42
B-0021 The value of multi-parameter strategy of ultrasound in the assessment of neoadjuvant chemotherapy for breast cancer
Y. Zh, L.Y. Peng, Y.B. Ma, Chengdu/CHN

11:50
B-0022 Evaluation with digital breast tomosynthesis of the pathological response to neoadjuvant chemotherapy in locally advanced breast cancer
G. Maricic1, M. Durando, E. Sardo, E. Reig, P. Campanino, G. Donato, C. Bogetti, P. Fono, G. Gandini, Forni/IT

10:30–12:00 Room Z
Molecular Imaging
SS 206 Clinical molecular imaging
Moderators: M. Eisenblaetter, Münster/DE, F.A. Gallagher, Cambridge/UK

10:30
B-0023 SECURE study: observational post-marketing study on the safety profile of gadoterate meglumine: final results in 35,499 patients

10:38
B-0024 68Ga-labelled PSMA-versus 11C-Choline PET/CT in the detection of recurrent prostate cancer
H. Rempp1, J. Schwienck, G. Reischl, K. Nikolaou, C. La Fougère, C. Pfannenberg, Tubingen/DE

10:46
B-0025 Navigation in an intraoperatively acquired freehand SPECT scan has the potential to improve lesion identification
N.S. van den Berg1, A. Vanzulli1, L. Romano2, N. Flor1, A. Carriero3, T. Albrecht4, M. Prokop5, Cork/IE

10:54
B-0026 Diagnosing relapse in brain tumours utilising integrated 11C-methionin PET/MRI
L. Umutlu1, T. Pöppel1, K. Wrede1, O. Müller1, C. Pöttgen1, P. Heusch2, N.S. van den Berg1, T. Engelen1, G.H. KleinJan1, R.A. Valdès Olmos2, W.M.C. Klop2, Munich/DE

11:02
B-0027 Role of 11C-methionine PET as a prognostic factor in patients with primary brain gliomas eligible for surgery
E. Lopai, L. Bello, L. Olivari, M. Riva, M. Simonelli, F. Randi, A. Chiti, Bærum/NO

11:10
B-0028 Impact of attenuation correction on quantification of tracer uptake in a fully integrated PET/MR system: comparison between MR- and CT-based attenuation correction
P. Selit, S. Gielis, H. Schmidt, I. Beznov, C. La Fougère, K. Nikolaou, C. Pfannenberg, N. Schwenzer, Tubingen/DE

11:18
B-0029 Simultaneous PET/MRI for primary staging of patients with cervical cancer: preliminary results
J. Grueneisen1, T.C. Lauenstein1, M. Forsting1, M. Heubner2, S. Kinner, V. Ruhlmann1, T.C. Lauenstein1, M. Forsting1, L. Umutlu1, Essen/DE, Düsseldorf/DE

11:26
B-0030 Translational imaging in diagnostic workup of neurodegenerative parkinsonian syndrome
C. Paschetta1, P. Buttani, D. Gned1, M. Iudicello1, A. Skanjeti, A. Veltri, A. Mancini1, Orbassano/IT

11:34
B-0031 Implementation of a fast-protocol for simultaneous PET/MR imaging for whole-body staging of female patients with recurrent pelvic malignancies: a comparison to the PET/CT
J. Grueneisen1, B.M. Schaarschmidt2, M. Heubner2, S. Kinner, V. Ruhlmann1, T.C. Lauenstein1, M. Forsting1, L. Umutlu1, Essen/DE, Düsseldorf/DE

11:42
B-0032 Blood oxygen level-dependent magnetic resonance imaging (BOLD-MRI) evaluating human visceral adipose tissue (AT) oxygenation induced by salt loading/depletion: feasibility study
L. Zheng1, Z. Zhang2, Shanghai/CHN, Chicago, IL/US

11:50
B-0033 The hybrid tracer ICG-99mTc-nanocolloid for combined radio- and fluorescence-guidance to the sentinel node in the groin
N.S. van den Berg1, G.H. Kleinjan1, D.R. Brouwer2, S. Honrbias2, R.A. Valdès Olmos2, H.G. van der Poel1, F.W.B. van Leeuwen1, Leiden/NL, Amsterdam/NI

10:30–12:00 Room M
GI Tract
SS 201b Improving abdominopelvic imaging: technical aspects
Moderators: D. Breen, Southampton/UK, R. Malago, Verona/IT

10:30
B-0034 Does abdominal ultrasound show equivalence to computed tomography and magnetic resonance enterography in predicting disease severity and complications?
A. Weidner1, S. Batool, K. Novak, S. Wilson, Calgary, AB/CA

10:38
B-0035 Reduction of contrast and radiation dose in multidetector computed tomography (MDCT) using individualised tailored protocols
A. Vazquez1, L. Romano1, N. Flor1, A. Carriero1, T. Albrecht1, M. Prokop1, Naples/IT, Movaia/IT, Berlin/DE, Nijmegen/NL

10:46
B-0036 Low-dose fluoroscopic examinations of the upper gastrointestinal tract: assessment of image quality and radiation levels
J. Weibel1, A. Ponschar1, K. Neumaier2, W. Flatz2, B. Ertl-Wagner2, M. Li2, Munich/DE

10:54
B-0037 Clinical impact of double reading of abdominal CT scans of surgical patients
F.M. Laorabanda1, J. Anderhot1, M. Stokke1, A. Tenndal1, T. Hegeland1, R. Aarnoff1, P. Hulden1, G. Sandback1, F. Gobranson1, Lørenskog/N0, Oslo/N0, Drammen/N0, Barneum/N0, Nordbyhagen/N0
Scientific Sessions

11:02
B-0038  Diagnostic efficacy of a low-radiation high-contrast dose protocol in single-pass abdominal multi-detector CT (MDCT): a prospective comparison with a standard protocol
L. Camera, I. Liccardo, P. Romano, S. De Franza, A. Rispo, R. Luizo, M. Imbriaco, F. Castiglia, M. Salvatore; Naples / IT

11:10
B-0039  Comparison of water and mannitol as negative contrast agents in abdominal staging CT

11:18
B-0041  Comparison between two different techniques for dynamic magnetic resonance imaging of the pelvic floor, one with gel rectal filling and the other with air balloon rectal distention in the evaluation of pelvic floor disorders
N. Al Ansari, F. Maccioni, V. Buonocore, F. Mazzamurro, C. Catalano; Rome / IT

11:26
B-0042  Radiation dose of 3rd generation CT colonography
D. Skripkin; Omsk / RU

11:34
B-0043  Pelvic static MR vs MR-defecography in the study of woman’s pelvic floor disorders
A. Ambrosi, G. De Franco, F. Lorusso, M. Cascarano, A. Scardapane, G. Angelelli, Bin / IT

11:42
B-0044  Semi-automatic computed tomography volumetry of esophageal cancer: a reproducible method for assessment of primary tumour size insensitive to radiologist experience

10:30–12:00 Room N

Cardiac
SS 203a  Tissue characterisation
Moderators: N. Kawel-Böhm; Chur/CH, B.K. Velthuis; Utrecht/NL

10:30
B-0045  Integrated FDG PET/MRI in the assessment of cardiac tumours
F. Nensa, T.D. Poeppel, C.J. Jensen, P. Heusch, T. Schlosser, K. Nassenstein; Essen / DE

10:38
B-0046  Extramedullary hematopoiesis (EMH) is associated with lower cardiac iron loading in regularly politransfused thalassaemia patients
F. Terrazano, M. Melièr, P. Recchi, N. Guarna, B. Messina, A. Pepe; Palermo/IT, Praia/IT, Naples/IT

10:46
B-0047  Quantitative T2 mapping in the distinction of salvaged and infarcted myocardium within the ischemic area-at-risk: validation and comparison with T2-weighted images
L.-M. Wu, A.-L. Andong, J.-R. Xu; Shanghai / CN

10:54
B-0048  T1 ratios are superior to actual T1 values for assessment of myocardial injury and left ventricular remodelling in coronary chronic total occlusion
Y. Chen, S. Yang, H. Yun, H. Jin, M. Zeng; Shanghai / CN

11:02
B-0049  Myocardial extracellular volume fraction quantified by cardiovascular magnetic resonance compared with histological and organic blood markers
I. Jacquier, A. Jacquier; Marseille / FR

11:10
B-0050  Automatic software for extracellular volume (ECV) fraction map generation of the myocardium
N. Galea, L. Altabella, C. Borrazzo, E. Di Castro, M. Franccone, C. Catalano, I. Carbone; Rome / IT

11:18
B-0051  Accuracy and reproducibility of native myocardial T1 mapping using 9, 10, and 11 heartbeat MOLLI acquisition schemes

11:26
B-0052  Left ventricular myocardial remodeling in pulmonary hypertension: a non-contrast magnetic resonance T1 mapping study
U. Bieter, G. Reiter, G. Kovacs, A. Greiser, H. Olschewski, M.H. Fuchs-Geiger; Graz/AT, Erlangen/DE

11:34
B-0053  Native T1-mapping for visualisation of septal left ventricular fibrosis in chronic thromboembolic pulmonary hypertension (CTEPH)
P.E. Thiele, C. Schneider, D.A. Kronbach; Dessau/DE

11:42
B-0054  Early non-invasive detection of microvascular dysfunction and myocardial damage in systemic sclerosis (SSc): a cardiovascular magnetic resonance study
N. Galea, G. Barchetti, A. Fiorelli, M. Franccone, E. Rosato, C. Catalano, I. Carbone; Rome / IT

11:50
B-0055  Quantification and optimisation of computed tomography myocardial late enhancement imaging with correlation to magnetic resonance imaging
M.C. Williams, N. Weir, E. Gray, T. MacGillivray, E.J.R. van Beek, D.E. Newby, S. Mirdadraee; Edinburgh / UK

10:30–12:00 Room L 1

Vascular
SS 215  Pre- and post-interventional work-up
Moderators: E. Brontzos; Athens/GR, P. Wiel, Almada/PT

10:30
K-01  Keynote lecture
E. Brontzos; Athens/GR

10:39
B-0056  Median arcuate ligament syndrome: accurate diagnosis by 64 slice MDCT mesenteric angiography
S.S. Pathak; Mumbai / IN

10:47
B-0057  Value of ultrasound contrast agents in the endoleak diagnosis in patients AAA treated stentgraft implantations
Scientific Sessions

10:55
B-0058 Type III endoleak after endovascular aortic repair: incidence, pathology and management
L. Poorteman1, B. Saint-Lèbes2, S. Heye1, S. Houthoofd1, H. Rousseau2, G. Maleux1; 1
Leuven / BE, 2 Toulouse / FR

11:03
B-0059 Post-EVAR split-bolus CT-angiography using dual-energy CT: all you need in a single scan!
R. Iezzi, M. Nestola, G. Coppola, A. Contegiacomo, F. Snider, L. Bonomo; Rome / IT

11:19
B-0061 Long-term results after EVAR: aorto-monoiliac configuration increases the risk of complications and aneurysm-related death
A.M. Morales Vargas, G. Garzón Moll, M. Martí de Gracia; Madrid / ES

11:27
B-0062 Accuracy of MDCT angiography of the anterior abdominal wall in the planning of the mammary reconstruction with DIEP-flap in mastectomy patients
F. Carbonetti, A. Cremona, P. Aloisio, N. Maltzeff, G. Argento, C. Capotondi, V. David; Rome / IT

11:35
B-0066 MR guided focused ultrasound surgery (MRgFUS) in the treatment of epiphyseal benign bone lesions: results after three year of experience
F. Arrigoni, S. Mariani, L.M. Gregori, L. Zugaro, A. Barile, C. Masciocchi; L’Aquila / IT

11:43
B-0067 Ultrasound / MRI fusion imaging guided lumbar nerve root blocks: preliminary experience
D.J. Wilson, G.M. Allen, Oxford / UK
**Neuro**

**SS 211a**  Inflammatory and degenerative disorders

**Moderators:** A. Bozzao, Rome/IT, N. Guberina, Essen/DE

**10:30**

**K-02**  Keynote lecture

T.A. Young, London/UK

**10:39**

**B-0077**  Improved Alzheimer’s disease diagnostic performance using structural MRI: validation of the MRI combination biomarker that won the CADDementia challenge

L. Serences1, M. Liljedahl, A. Pati, J. Balas, L. Akerke, E. Igles, M. Nielsen1; 1Copenhagen/DK, 2Kgs Lyngby/DK

**10:47**

**B-0078**  MRI-based automated hippocampal volumetry as a screening tool for Alzheimer’s disease in subjects with memory complaints supplemented by FDG-PET/CT

I. Sacar resized F. Supper1, L. Speer, M. Pobben,1 M. Huber-Hirth1, C. Jahn1, C. Meller1,1 Cologne/DE, 2Berlin/DE, 3Hamburg/DE

**10:55**

**B-0079**  Association of MR features, clinical presentation and levels of glutathione and glutathione peroxidase in erythrocytes of patients with clinically isolated syndrome and relapsing remitting multiple sclerosis

D. Stojanov, S. Ljubisavljevic, I. Stojanovic, S. Vojinovic; 1Nis/RS, 2Clearwater, FL/US, 3Cincinnati, OH/US

**10:03**

**B-0080**  Disrupted small-world networks in never treated schizophrenia patients with long illness duration

L. Yago1, W. Song2, W. Xiao3, F. Li3, Y. Xiao, W. Zhang, J. Sweeley, Q. Dong1; 1Chengdu/ CN, 2Hangzhou/CN, 3Dallas, TX/US

**11:11**

**B-0081**  The different pattern of functional and structural changes depending on the rate of cognitive decline in Parkinson’s disease with mild cognitive impairment

J. Han1, J. Hwang1, N.-Y. Shin1,1 Seoul/KR, 2Gonoo/KR

**11:19**

**B-0082**  Comparison of 3T and 7T susceptibility weighted angiography of the substantia nigra in diagnosing Parkinson’s disease

M. Costel2, D. Frosini, I. Pescarelli, G. Donatelli, P. Cecchi, M. Costagli, R. Ceravolo, M. Costagli, L. Biagi, I. Kim1, J. Kwon2, N.-Y. Shin1; 1Moscow/RU, 2Pisa/IT

**11:27**

**B-0083**  Pattern of spontaneous neuronal activity within default mode network in patients with Parkinson’s disease

E. Selivestrov1, Y. Selivestrov, R. Konovalov, M. Protokhina, S. Ilarionkin; Moscow/RU

**11:35**

**B-0084**  Estimating the need for MRI conditionally safe deep brain stimulation systems in Parkinson’s disease patients: a European perspective

E. Gunnarsson1, G. Barnett2, S. Azzedine Walker2, J. Hinnenhal1, Y. Safriel1; 1Cincinnati, OH/US, 2Dunmanaghy/IE, 3Tolochenaz/CH, 4Minneapolis, MN/US, 5Cleawater, FL/US

**11:43**

**B-0085**  Susceptibility weighted imaging improves the diagnostic accuracy of brain MRI in the work-up of parkinsonism

F.J.A. Molen1, B.A.C.M. Fason, A. van Rumund, B.R. Bloem, B. Goraj, Nijmegen/NL

**11:51**

**B-0086**  Transcranial magnetic stimulation and MR with DTI in ALS patients: combination and correlations of their measurements

A. Stecco, M. Prichtmanu,1 M. Givel, E. Magnazzo, A. Carriere, Novara/IT

**10:30–12:00 Room F1**

**Oncologic Imaging**

**SS 216**  Thoracic oncology

**Moderators:** I.E. Tyrin, Moscow/RU, A. Vilaplana, Seville/ES

**10:30**

**B-0087**  CT perfusion of lung tumour: do morphological and functional heterogeneity correlate?

D. Barone1, A. Bevilacqua, S. Baccetti2, G. Gavelli3; 1Meldola/IT, 2Bologna/IT

**10:38**

**B-0088**  Virtual monoenergetic dual-energy CT: optimisation of keV-settings in lung cancer

M. Pazzaglia1, J.-E. Scholtz, A. Engler, R.W. Bauer, M. Keller, T.J. Voog1, J.L. Wichmann; Frankfurt/DE

**10:46**

**B-0089**  Potential influence of automated volumetry on treatment response classifications in lung cancer lesions

K. Rehan; Linz/AT

**10:54**

**B-0090**  Prognostic value of additional findings in CT scans of patients with cancer-related pulmonary embolism: data from 208 consecutive cases from the EPINH study

D. Seko1,2, T. Raymond1, P. Jiménez-Fuscaldo1, M. Soles1, M. Benegas1; 1M. Sanchez2, S. Hernandez3, D. Martinez de la Haza1, A. Carrion-Bayon4; 1Linz/AT, 2Barcelona/ES, 3Madrid/ES

**11:02**

**B-0091**  High diagnostic performance for MRI-based regional lymph node staging in NSCLC: results from a meta-analysis


**11:10**

**B-0092**  Diagnostic accuracy of different MRI pulse sequences in non-small cell lung cancer in a dedicated, thoracic 18F-FDG PET/MRI protocol

B.M. Schaarschmidt1, C. Buchbender1, C. Rubbert1, F. Hild1, V. Ruhlmann1; 1M. Kaup, J.-E. Scholtz, A. Groves; 1Berlin/DE, 2Hannover/DE

**11:18**

**B-0093**  Multi-parametric PET-CT correlates with hypoxia, angiogenesis and ALK expression in non-small cell lung cancer

D. Neriman, B. Ganeshan, A. Groves; London/UK

**11:26**

**B-0094**  Correlation between CT features and KRAS mutation in patients with stage I lung adenocarcinoma and their prognostic value

H. Wang1, Y. Liu2, O. Grove2, Y. Balagurunathan2, J. Heine2, S. Eschrich2; 1Clearwater, FL/US, 2Cincinnati, OH/US, 3Clearwater, FL/US, 4Dallas, TX/US
11:34  B-0095  CT of the lung: distinct features of NSCLC harbouring the EML4-ALK translocation  
U.D. Mueller-Lisse1, A. Tuami2, H.A. Zimmermann, C. Reiners, A. Borgreuer, F. Gamarra, S. Reu, M.F. Reiser1, R.M. Huber1; Munich/DE

11:42  B-0096  Epidermal growth factor receptor mutation in lung adenocarcinomas: comparing CT characteristics with and without activating EGFR mutation  

11:50  B-0097  NSCLC with EGFR and KRAS positive genes mutations. Do CT findings help in differentiating these from other forms of NSCLC?  
A. Sabo1, M. Batool1, Z. Xu1, D. Bethune1, D. Manos2; Halifax, NS/CA

10:30–12:00  Room F2

Physics in Radiology

SS 213  Advances in CT imaging  
10:30  B-0098  Dose performance of a new CT system optimised for low kV imaging in whole liver dynamic studies  
U. Haberland1, E. Klitz1, B. Schmidt1, Forchheim/DE

10:38  B-0099  Formation of a well-defined arterial input function for contrast-enhanced CT using a pre-determined patient-specific circulatory function for individual contrast-agent bolus-shaping  
J. Hansen1, M.B. Wellmer, G. Pahn1, S. Schmitzke, L. Grenacher1, H.-U. Kauczor1, W. Stiller1; Heidelberg/DE

10:46  B-0100  Renal versus splenic maximum slope based perfusion CT modeling in patients with liver cirrhosis and portal-hypertension  
M.A. Fischer1, A. Brahme1, B. Leidner1, A. Svensson1, P. Aspelin1, T.B. Brismar1; Stockholm/SE

10:54  B-0101  X-ray phase-contrast CT: a novel method for differentiation of renal tumour subtypes ex-vivo  
M. Brunsveld1, L. Bimbacher1, M. Willner1, M. Notohan5padjo1, S. Notohan5padjo1, T. Saari1, M.F. Reiser1, P. Pfeiffer1, J. Herzner1; Munich/DE, Garching/DE, Tübingen/DE

11:02  B-0102  Visualisation of pulmonary emphysema and fibrosis in living mice using x-ray dark-field CT imaging  
A. Yaroshenko1, K. Heilbach1, A. Veloyen1, S. Auweter1, M. Bech1, F.G. Meinelf1, M.F. Reiser1, P. Pfeiffer1; Munich/DE, Lund/SE

11:10  B-0103  An MR-PET-CT phantom for quality assurance, research and development  
P. Mann1, T. Heußer1, H. de la Heras Gala1, M. Kachelrieß1, P. Bachert1; Heidelberg/DE, Zürich/CH

11:18  B-0104  Identifying iodine and calcium solutions and estimating their concentration using caterial decomposition images generated by spectral detector dual-layer CT  
I. Leichter1, T. Lipschuetz1, T. Vichter1, Z. Ronnman1, J. Sosna; Jerusalem/IL
11:10  B-0115  The diagnostic performance of dedicated axillary T2- and diffusion-weighted MRI for nodal staging in breast cancer

11:18  B-0116  Potential role of Dixon sequences on predicting metastatic axillary lymph nodes in patients with breast cancer: preliminary results
M. Marcon, V. Bertani, P. Clauser, A. Linda, C. Zuiani, M. Bazzocchi; Udine / IT

11:26  B-0117  Role of DWI assessing nodal involvement and response to neoadjuvant chemotherapy in advanced breast cancer
C. Buccheri, E. Bufi, A. Bonatesta, R. Fubelli, M. Tumino, F. Padovano, P. Patrolecco, P. Belli, L. Bonomo; Rome / IT

11:34  B-0118  The diagnostic performance of gadofosveset-enhanced axillary MRI for nodal (re-)staging in breast cancer patients: can the initial promising results be reproduced?

11:42  B-0119  Correlation between enlarged axillary lymph nodes to breast silicone implants tears seen on MRI
E. Klang, O. Helshtok, A. Rundstein, A. Shalmon, Y. Servadio, M. Gotlieb, M. Sklair-Levy; Ramat Gan / IL

11:10  B-0120  Interventional radiology service provision: can we treat safely peripheral vascular disease in a day unit setting?
A. Larivière, S. Ilyier, N. Shaikh, C. Cousins, M. Kroksde; Cambridge / UK

11:18  B-0126  Analysis of outcome after PTA in patients with infrainguinal TASC A and TASC B arterial lesions
D. Ilc, T. Kokovic, V. Vucaj-Ontovac, V. Till, S. Stojoanovic; Novi Sad / RS

11:18  B-0127  Recanalisation of femoro-popliteal chronic total occlusions: no fancy devices, just a crossing catheter
A. Larivière, M. Kroksde; Cambridge / UK

11:26  B-0128  Peripherally inserted central venous catheter-related infections in a large cohort of hospitalised adult patients
C. Bouzad, S. Duron, A. Bousquet, L. Valbousquet, G. Weber-Donat, J. Baccarraine, J. Potet; Clamart / FR, Marseille / FR, Saint-Mandé / FR

11:34  B-0129  Endovenous laser ablation of symptomatic varicose veins: experience of a tertiary health care center in India
P. Jha, S. Sharma, G. Guleri, New Delhi / IN

11:34  B-0130  A comparative study of RFA and EVLT in treatment of symptomatic varicose veins patients
K.B. Tam, Nagoor; Nagoor / IN

10:30–12:00  Room D2

Interventional Radiology

SS 209  Peripheral arterial and venous interventions
Moderators: E. Dósa; Budapest/HU, K. Schürmann; Dortmund/DK

10:30  B-0120  Advanced age and renal dysfunction in cathlab: what should we do?
R. Accardi, F. Pellone; Macerata / IT

10:38  B-0121  The role of cutting balloon angioplasty for the treatment of short infrapopliteal bifurcation steno-obstructive disease
A. Posa, R. Iezzi, E. Antonuccio, M. Santoro, F. Snider, L. Bonomo; Rome / IT

10:46  B-0123  Patency rates of self-expandable bare metal stents after endovascular treatment of peripheral occlusive artery disease: a matter of stent design?
K.M. Treitl, B. Wörner, M.F. Reiser, M. Treitl; Munich / DE

10:54  B-0124  Acute thrombosis of Viabahn stents in the peripheral arteries: is the incidence much higher than initially anticipated?
A. Parthipun, S. Lamki, A. Diamantopoulos, Y. Gupta, K. Patsonas; London / UK

10:55  B-0132  Multiparametric 18F-Fluorodeoxyglucose/18F-Fluoromisonidazole PET/MRI of cervix cancer: a feasibility study

11:02  B-0125  Interventional radiology service provision: can we treat safely peripheral vascular disease in a day unit setting?
A. Larivière, S. Ilyier, N. Shaikh, C. Cousins, M. Kroksde; Cambridge / UK

11:10  B-0126  Analysis of outcome after PTA in patients with infrainguinal TASC A and TASC B arterial lesions
D. Ilc, T. Kokovic, V. Vucaj-Ontovac, V. Till, S. Stojoanovic; Novi Sad / RS

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A. Larivière, M. Kroksde; Cambridge / UK

11:26  B-0128  Peripherally inserted central venous catheter-related infections in a large cohort of hospitalised adult patients
C. Bouzad, S. Duron, A. Bousquet, L. Valbousquet, G. Weber-Donat, J. Baccarraine, J. Potet; Clamart / FR, Marseille / FR, Saint-Mandé / FR

11:34  B-0129  Endovenous laser ablation of symptomatic varicose veins: experience of a tertiary health care center in India
P. Jha, S. Sharma, G. Guleri, New Delhi / IN

11:42  B-0130  A comparative study of RFA and EVLT in treatment of symptomatic varicose veins patients
K.B. Tam, Nagoor; Nagoor / IN

10:30–12:00  Room G

Genitourinary

SS 207  Gynaecological malignancies
Moderators: M. Horta; Lisbon/PT, K. Kinkel; Chêne-Bougeries/CH

10:30  K-03  Keynote lecture
K. Kinkel; Chêne-Bougeries/CH

10:55  B-0133  Differentiation of primary fallopian tube cancer from epithelial ovarian cancer and salpingitis on 3-T PET/MRI
S. Park, C. Kim, J. Park, J. Bae, B. Park; Seoul / KR

11:03  B-0134  Sonoelastography in differentiation of the benign and malignant ovarian tumours
A.E. Khalmukhamedova, V.E. Gazhonova; Moscow / RU
Scientific Sessions

11:02  B-0145  Air gap in hip joint axiolateral projection
S. H. Kwong, A. Henner, U. Fussner, M. Jaakkola, A. Rottaho; Oulu/FI

11:10  B-0146  Balancing image quality and effective radiation dose in orbital X-ray screening for ferromagnetic IOFBs: a pilot study
S. A. Jessup, G. Hart, A. R. Santsago, J. Guerrero, Y. Cotier, B. Markali, E. N. Andersen, J. Jorge, A. E. England; Manchester/UK, Lisbon/PT, Lausanne/CH, Oslo/NO

11:18  B-0147  Orthopaedic surgery occupational exposure using active dosimeters
J. Francisco, N. Lopes, R. Ferreira, J. Santos, G. Paulo; Coimbra/PT

11:26  B-0148  Pelvic radiography: patient orientation
L. Prudente, J. Elías; Tenerife/ES

11:34  B-0149  Does using a lower kVp offer a greater potential for fracture detection in hip radiography?
H. Milne, A. E. England; Manchester/UK

11:42  B-0150  The effect of patient shielding in intraoral dental imaging
T. Kiemenietz, M. Mikk, Ljubljana/SI

11:50  B-0151  Musculotendinous structure changes evaluated by ultrasound in elderly population submitted to a physical activity programme
R. Santos, A. Amaral; Coimbra/PT

10:30–12:00 Room MB 1

Head and Neck

SS 208  Advanced imaging in salivary glands and lymph nodes, including elastography

10:30  B-0152  Simultaneous visualisation of the intraparotid facial nerve and parotid duct using a micro-surface coil and 3D-FISP-FS sequence
G. Hong; Guangzhou/CN

10:38  B-0153  MR sialography of sialadenitis related with radioactive Iodine treatment in patients with postoperative thyroid cancer, using 3D fast recovery fast spin echo sequence at 3T
Y. Shao, H. Lee, N. Kim, Y. Kang, J. Lim, S. Cho; Incheon/KR

10:46  B-0154  Diffusion-weighted imaging (DWI) and dynamic contrast-enhanced MRI (DCE-MRI) in common parotid gland tumours with reference to histopathologic examination
K. Markiet, B. Mikaszewski, A. Smugala, A. Smugala, D. Stodulski, B. Kowalska, C. Stankiewicz, E. Szurowska; Gdansk/PL
**Scientific Sessions**

10:54  B-0155  Role of perfusion computed tomography in assessing submandibular gland radiochemotherapy-induced injury

U. Lamot, K. Šurlan Popovič, M. Harej, T. Furlan, P. Popovič, P. Strojan; Ljubljana / SI

11:02  B-0156  Comparison of fine needle aspiration and core needle biopsy under ultrasonography guidance for detecting malignancy and for the tissue-specific diagnosis of salivary gland tumours


11:10  B-0157  A study on serum antithyroglobulin antibodies interference in thyroglobulin measurement in fine-needle aspiration in diagnosing lymph node metastasis in postoperative patients


11:18  B-0158  ShearWave elastography in lymph nodes


11:26  B-0159  ‘Illusion of blue’; role of ultrasound elastography in cervical lymph nodes

R. Arkar, V. Kasi Arunachalam, R. Renaganathan, M. Cherian; Coimbatore / IN

11:34  B-0160  Role of ultrasonographic elastography in differentiating benign and malignant cervical lymph nodes

P.A.R.P. Sathiadoss, S. Narayanasamy, S. Wahab, E. Ullah, I. Ahmad; Aligarh / IN

11:42  B-0161  Elastography and histogram of Kikuchi disease: the comparison with reactive hyperplasia of cervical lymph nodes

K. Lee, J. Ryu; Busan / KR

11:50  B-0162  Real-time ultrasound elastographic features of primary open angle glaucoma

D. Unal, N. Lay, M. Gurmus, F. Yulek; Ankara / TR

10:30–12:00  Room MB 2

**Paediatric**

SS 212  Chest imaging and dosimetry

Moderators: L.-S. Ording Müller, Oslo/NO, C. Owens, London/UK

10:30  K-04  Keynote lecture

C. Owens; London / UK

10:39  B-0163  Real-time ultrasound-guided pigtail catheter placement in supine position for drainage of symptomatic pleural effusions in paediatric patients who underwent liver transplantation

M. D'Arrigo, R. Miraçıla, L. Maruzzelli, G. Gallo, A. Luca; Palermo / IT

10:47  B-0164  CT angiography findings of cardiovascular anomalies in aortopulmonary window: a rare congenital heart disease

A. Bhatia, P.S. Sohi, A.N. Sakeria, M. Sinajal, M.K. Rihot, N. Khandelwal; Chandigarh / IN

10:55  B-0165  Detection of pulmonary nodules in children with a free breathing MRI technique compared to CT scans

H.P. Schemuth, S. Sinn, B. Schweijer, J. Schellhorn, S. Ahnner; Essen / DE

11:03  B-0166  Coronary assessment in young children with congenital heart disease: comparing a novel spiral acquisition technique to the standard sequential one in coronary CT angiography with dual-source CT

A. Secinaro, F. Santangelo, L. Oddi; Rome / IT

11:11  B-0167  Image quality criteria for paediatric CT thorax - a useful tool?

L. Heiberg, S. Flatabo, A. Aarsnes, H. Olerud; Oslo / NO

11:19  B-0168  Assessment of bronchiectasis in children with cystic fibrosis by comparing airway and artery dimensions to normal controls on inspiratory and expiratory spirometer guided chest computed tomography

W. Piato1, M. de Bruyne1, R. Nassernejad1, H. Ozturk1, Y. Chen1, A. Perez-Rovira1, H.A.W.M. Tiddens1, Rotterdam / NL, Wangiva / CN

11:27  B-0169  Paediatric fluoroscopic imaging - comparison of simulation results using an anthropomorphic phantom representing a 1-year old child examined on an image-intensifier and a flat-panel detector based system

M. Weidner1, A.A. Schegerer2, T. Diehm1, S.O. Schoenberg1, G. Brau2, K.W. Neff1; Mannheim / DE, Neuenberg / DE

11:35  B-0170  Dosimetric study of varicocele embolisation in paediatric patients

A. Bresadola, P. Mistchke, R. Azzorini, C. Khouri Chalouhi, B. Cornalba; Milan / IT

11:43  B-0171  CT dose monitoring and optimisation in paediatric CT using radiation dose tracking Software


11:51  B-0172  Comparison of radiation dose between an image intensifier system and a flat-panel detector system: evaluation of clinical imaging in a paediatric population

M. Weidner1, C. Hagelstein, T. Diehm, S.O. Schoenberg, K.W. Neff; Mannheim / DE

**Paediatric**

SS 212  Chest imaging and dosimetry

Moderators: L.-S. Ording Müller, Oslo/NO, C. Owens, London/UK

10:30  K-04  Keynote lecture

C. Owens; London / UK

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M. D'Arrigo, R. Miraçıla, L. Maruzzelli, G. Gallo, A. Luca; Palermo / IT

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A. Bhatia, P.S. Sohi, A.N. Sakeria, M. Sinajal, M.K. Rihot, N. Khandelwal; Chandigarh / IN

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M. Weidner1, A.A. Schegerer2, T. Diehm1, S.O. Schoenberg1, G. Brau2, K.W. Neff1; Mannheim / DE, Neuenberg / DE

11:35  B-0170  Dosimetric study of varicocele embolisation in paediatric patients

A. Bresadola, P. Mistchke, R. Azzorini, C. Khouri Chalouhi, B. Cornalba; Milan / IT

11:43  B-0171  CT dose monitoring and optimisation in paediatric CT using radiation dose tracking Software


11:51  B-0172  Comparison of radiation dose between an image intensifier system and a flat-panel detector system: evaluation of clinical imaging in a paediatric population

M. Weidner1, C. Hagelstein, T. Diehm, S.O. Schoenberg, K.W. Neff; Mannheim / DE
Scientific Sessions

10:30–12:00 Room MB 3

Cardiac

SS 203b Heart rate: disorders and imaging issues
Moderators: M. Grothoff, Leipzig/DE, R.J. Perea, Barcelona/ES

10:30 B-0173 Effect of heart rate on image quality using 320-row coronary computed tomography angiography: a pulsating cardiac phantom study
P. Kozma, C. Kendziorra, F. Richter, M. Dewey, Berlin/DE

10:38 B-0174 Coronary CT angiography on 128-slice dual-source CT: comparison of incidence and location of artefacts in high-pitch spiral and prospectively ECG-gated sequential acquisitions
F. Laffranchi, D. Farina, E. Gavazzi, A. Borghesi, M. Ravanelli, R. Maroldi, Brescia/IT

10:46 B-0175 Comparison of coronary CT angiography (CCTA) for patients with high heart rates using a 512-slice new-generation MDCT and a 128-slice CT: image quality and radiation dose
L. Macron, J.-L. Sablayrolles, J. Feignoux, Saint Denis/FR

10:54 B-0176 Coronary angiography by 320-row CT in patients with atrial fibrillation: prospective intention-to-diagnose comparison with conventional coronary angiography
E. Zimmermann1, S. Feger1, M. Rief1, P. Schlattmann2, M. Laule1, M. Dewey11, Berlin/DE, 2Jena/DE

11:02 B-0177 Influence of iodinated contrast agents on heart rate variation during CT angiography of the coronary arteries after intravenous administration of beta blocker

11:10 B-0178 Influence of atrial fibrillation on left atrial appendage movement and sizing evaluated with cardiac computed tomography angiography
P. Wendling, A. Clemente, T. Lajarrê, A. Monteleone, D. Della Latta, D. Chiappino, Massa/IT

11:18 B-0179 Cardiac CT vs cardiac MRI for characterisation of left atrium anatomy before radiofrequency catheter ablation of atrial fibrillation: impact on radiation exposure and outcome
E. Bertella, D. Andreini, M. Petullà, E. Russo, E. Innocenti, A. Baggiano, S. Mushtaq, V. De Carolis, G. Pontone, Milan/IT

11:26 B-0180 Point-by-point correlation between electroanatomic mapping (EAM) and 3D-model from multidetector-computed tomography (3D-CT-model) in patients affected by ventricular tachycardia (VT)

11:34 B-0181 Left atrial fibrosis in healthy volunteers and patients with and without atrial fibrillation according to LGE MRI

11:42 B-0182 Myocardial substrate of recurrent ventricular tachycardia: relationship between late-enhancement multidetector computed tomography (MDCT-LE) and electroanatomic mapping

11:50 B-0183 Effect of a novel motion correction algorithm on the image quality of low-dose coronary CTA
M. Kramarova, V. Synyshyn, E.A. Manashina, Moscow/RU

Emergency Radiology

SS 217 Emergency imaging: how to be more precise
Moderators: H.H. Neuboe, Brussels/BE, G. Schueller, Opfikon/CH

10:30 B-0184 Simple CBF grading based on MR perfusion to anticipate long-term clinical outcome in severe stroke patients due to the carotid artery occlusion

10:38 B-0185 Prevalence of pulmonary embolism during pregnancy
S. Schmid, S. Dunet, M. Meuli, V. Hugli, V. Ilic, Lausanne/CH

10:46 B-0186 Intensive care patients with elevated laboratory inflammatory parameters: indications to perform a CT examination of the head, chest and abdomen to search for the focus of infection

10:54 B-0187 The emerging role of contrast-enhanced CT to assess esophageal necrosis after corrosive ingestion

11:02 B-0188 Patients with acute pancreatitis: is computed tomography always necessary?

11:10 B-0189 The CT "capsular sign": a specific finding of acute adrenal ischemia
M. Moschetta, M. Telegrafo, A. Pignatelli, A. Stabile Tanora, G. Angelelli, Bari/IT

11:18 B-0190 Acute appendicitis - CT or ultrasound in patients with differing body mass indices: a comparative assessment
11:26  B-0191  Is CT transrectal enema useful in staging acute colonic diverticulitis?
    M. Bernlochner, R. Amol, G. Ehrko, A. Mariani, L. Porzini, D. Chiara, S. Sironi, A. Vanzulli, Milan/IT

11:34  B-0192  Utilising contrast-enhanced CT for detecting post-traumatic placental abruption: assessing accuracy and comparison with ultrasound
    P. P. B. Melendres, B. Bajari, San Francisco, CA/US, Sacramento, CA/US

11:42  B-0193  High-pitch low-dose paranasal sinus CT in drunken emergency room patients after assault: initial results on image quality and dose with third-generation dual-source CT
    E. Frellesvig, P. Dovers, B. Schulz, J.-E. Scholtz, M. Kerl, T. Voogl, R. Bauer, Frankfurt a Main/DE

11:50  B-0194  Intravenous and oral contrast vs intravenous contrast alone CT for the visualisation of appendix and diagnosis of appendicitis in adult ED patients
    A. Wadhwa, L. Gao, E. Saudle, H. Elis, E. Lane, A. Mackae, L. Bhayana, Calgary, AB/CA

10:30–12:00  Room MB 5

Vascular disorders, diagnosis and treatment

SS 211b  Moderators: K.D. Kurz, Stavanger/NO, Z. Methemic, Sarajevo/BA

10:30  B-0195  Feasibility and validity of monitoring subarachnoid haemorrhage by a noninvasive MRI imaging perfusion technique: pulsed arterial spin labelling (PASL)
    M. Labriffe, A. Ter Minassian, A. Pasco-Papon, S. N’Guyen, C. Aubé, Angers/FR


10:46  B-0197  Safety and efficacy of a new device for the treatment of wide neck bifurcation aneurysms (PCONUs): initial results and long-term follow-up
    M. Aguilar Pérez, W. Kurre, E. Henkes, O. Ganslandt, H. Henkes, Stuttgart, DE

10:54  B-0198  Flow diverters: a curative endovascular treatment for ruptured intracranial blister-like aneurysms
    S. Despalat, S. Joseph, N. Mualim, Dharmi/LN

11:02  B-0199  Basilar tip aneurysms and fetal PCAs: do they really coexist?

11:10  B-0200  Optimising the resting state fMRI processing pipeline using a data-driven approach
    L. R. Pszczolk, G. Dávid, A. Szabó, B. Hudás, S. Dávid, Budapest/HU

11:18  B-0201  Comparison of image quality and radiation dose: cerebral CT angiography (CTA) using 120 kVP vs 100 kVP protocols in patients with clipped aneurysm

11:26  B-0202  Final report of the Polish multicentre study for evaluation of cerebral CT angiography in the diagnosis of brain death

11:34  B-0203  Postmortem interval estimation: value of postmortem cerebral CT

11:42  B-0204  Evaluation of the degree of arteriovenous shunting in intracranial arteriovenous malformations using pseudo-continuous arterial spin labeling MRI

11:50  B-0205  Evaluation of contrast-enhanced MR angiography and time of flight MR angiography at 3 Tesla in previously coiled intracranial aneurysms
    N. Prasadka, A. Mathur, A. Gupta, A. Kumar, S. Mathunia, S. Gupta, Chandigarh/IN

14:00–15:30  Room A

Breast

SS 302a  Moderators: L.A. Carbonaro, San Donato Milanese/IT, C. Colin, Lyon/FR

14:00  B-0206  Mammographic density is the main correlate of tumours detected on ultrasound but not on mammography

14:08  B-0207  A preliminary retrospective study to determine early mammographic breast density reduction following treatment

14:16  B-0208  Inter-rater variability for breast density classification between American and British radiologists

14:24  B-0209  Comparison of two software-based methods for volumetric breast composition analysis

14:32  B-0210  Low mammographic breast density and other mammographic characteristics are linked to Hylauronan and HAS1-3 staining and survival in patients with early breast cancer
Abdominal Viscera

SS 301a  Diffuse liver and pancreatic diseases

Moderators: M.A. Bai, Brussel/BE, L. Cevacso, Genoa/IT

14:00  B-0217  Noninvasive liver iron content determination by dual-source dual-energy CT: initial results in patients suspected of liver iron-overload
X. Luo, J. Yan, W. Chai, H. Zhang, F. Yan, Shanghai/CN

14:08  B-0218  Multivariable analysis of clinical influence factors on liver enhancement of Gd-EOB-DTPA-enhanced 3T MRI
N. Verghese, M. Haenert, L. Strozzi, G. Fellner, P. Woppe, Regensburg/DE

14:16  B-0219  Obliterative portal venopathy (OPV) vs. liver cirrhosis: appraisal of vascular changes on CT
A. Angra, S. Rajesh, S.R. Sarin, New Delhi/IN

14:24  B-0220  Acute extrahepatic infectious or inflammatory diseases are a cause of transient sinusoidal dilatation
M. Ronot, A. De Nicolò, A. Rotili, B. Bonanni, C. Zuiani, M. Bazzocchi, M. Bazzocchi, Milan/IT

15:04  B-0214  Fully automated measurement of background parenchymal enhancement using open source software
J.D. Baktman, Lebanon, NH/US

15:12  B-0215  Triple negative breast cancer:
MRI features in comparison to other breast cancer subtypes with correlation to prognostic pathologic factors
N.A.M. Shafi, N. Otsman, N. Abdadob, Cairo/EG

15:20  B-0216  Is choline concentration measured by MR Spectroscopy at 3.0T correlated to the outcome of breast cancer prognostic indicators?
L. Caricca, I. Biaglot, F. Caumo, G. Mellado, C. Cavend, S. Montemezzi, Verona/IT

14:00–15:30 Room B

Breast

SS 302b  Risk imaging and stratification


14:00  B-0228  A prospective evaluation of a multimodal screening regimen in BRCA carriers

14:08  B-0229  Breast cancer in women previously exposed to chest radiation therapy: single centre experience
L. Bonello, G. Trecate, F. Cartia, A. Vella, S. Viganò, G. Scaperotta, P. Panizza, Monza/IT

14:16  B-0230  Foci on breast magnetic resonance imaging (MRI) in high-risk women: cancer or not?
P. Alzate, A. De Nicolò, A. Rotili, B. Bonanni, C. Zuanì, M. Bazza, E. Cassano, Udine/IT, Milan/IT
14:24  B-0231  Determination of recall rates in women undergoing annual surveillance breast MRI: is a rate of less than 10% achievable?
N.A. Healy, K. Hilshon, S. Ciesielski, F. Kwa, P.O. Orscol, G. Offiah, Y. Roden, S. Sebbou, S.A. O’Keeffe, Dublin/IE

14:32  B-0232  Automated detection of breast cancer as an aid in the interpretation of screening MRI
S. Weeraman, A. Gubem Méndez, S. Lardenoije, B. Platel, N. Karssmeijer, R.M. Mann, Rotterdam/NL

14:40  B-0233  A critical audit of a breast MRI screening programme for intermediate and high risk patients in clinical practice
S. Weeraman, A. Gubem Méndez, S. Lardenoije, B. Platel, N. Karssmeijer, R.M. Mann, Rotterdam/NL

14:48  B-0234  Can biannual ultrasound surveillance detect cancers earlier in patients with breast cancer history?
M. Kim, E-K. Kim, Seoul/KR

14:56  B-0235  A history of breast cancer and older age may warrant upgrade into BI-RADS 4 among patients assigned mammographic BI-RADS 3 in the diagnostic setting
M. Bennik1, Y. Wu, E. Burnside1; 1Freiburg/DE, 1Madison, WI/US

15:04  B-0236  Towards personalised breast screening protocols: validation of mammographic density estimation from full-field digital mammograms
M. Abdolali1, K.M. Tsuruda, E.E. McDougall1, S. Iles, C.B. Lightfoot, J. Caines, Halifax, NS/CA

15:12  B-0237  Tabár parenchymal patterns and breast cancer risk: a case-control study adjusting for percent area mammographic density and standard risk factors
S. Abdolali1, K.M. Tsuruda, J. Payne, C.B. Lightfoot, J. Caines, Halifax, NS/CA

15:20  B-0238  Should volumetric breast density be included in breast cancer prediction models? Proposal of an integrated quantitative and reproducible approach
S. Ceppi1, G. Bemmaro1, V. Muñoz2, G. Nairini1; 1Padova/IT

14:16  B-0242  Impact of post-processing algorithms on the reproducibility of apparent diffusion coefficient (ADC): is it really quantitative?
M. Zschiesche1, M. Leitl1, P.A.T. Bakker1, M. Uder1, M. Dietzel1; 1Erlangen/DE, 1Vienna/AT

14:24  B-0243  Implementation of a phase detection algorithm for dynamic cardiac computed tomography analysis based on time dependent contrast agent distribution
C. Fernández1, M. Meyer, M. Dewey, Berlin/DE

14:32  B-0244  Large-scale objective comparison of 29 novel algorithms for computer-aided diagnosis of dementia based on structural MRI
E.E. Bron1, M. Smits1, F. Bankoff1, A.J. Bastos-Leite1, J.C. van Swieten1, W.J. Niessen1, S. Klein1, Rotterdam/NL, 1Amsterdam/NL, 1Porto/PT

14:40  B-0245  Volume measurement by using super-resolution MRI: application to prostate volumetry
E. Bubel1, H. Beaumont1, A. Tanessi1, Valbonne, FR, 1Nice/FR

14:48  B-0246  CT perfusion studies of lung cancer: automatic detection of misleading structures and artefacts
D. Barone1, A. Bevilacqua1, S. Malavais1, G. Gavelli1, 1Modena/IT, 1Bologna/IT

14:56  B-0247  Water content calculation in cartilage through MR estimation: design and validation of a mathematical model
J.M. Shiguetomi-Medina1, J.L. Ramirez-Garcia-Luna2, H. Stødkilde-Jørgensen2, B. Møller-Madsen1, 1Aarhus/DK, 2San Luis Potosi/MX

15:04  B-0248  A novel approach for estimating fracture risk by computerised processing of routine proximal femur radiographs
1Lechtier1, B. Farquhar, O. Rozenberg, O. Safian, M. Liebergall, Jerusalem/IL

15:12  B-0249  Clinical applicability of advanced trabecular microarchitecture assessment using multi-detector computed tomography
A. Valentini1, L. Fischer1, J.M. Patsch1, J.S. Bauer1, F. Kanberger1, G. Laneg1, M. DiFranco2; 1Munich/DE, 1Vienna/AT

14:00–15:30  Room Z

Computer Applications

SS 305  Imaging biomarkers
Moderators: A. Alberich-Bayarri, Valencia/ES, M. de Bruyne, Rotterdam/NL

14:00  B-0239  Choice of deconvolution algorithm: impact on the perfusion analysis of human gliomas
M. Pera1, A. Than1, M. Schmidt, S. Kossak, M. Essig1, A. Dörfler1; 1Erlangen/DE, 1Ottawa, ON/CA, 1Winnipeg, MB/CA

14:08  B-0241  Accurate and reproducible splenic volume estimation in patients with splenomegaly from multidetector-row CT data using a quick stereological method
M. Mazuráková1, J. Stratáčik1, J. Damlíček, Bratislava/SK

14:16  B-0242  Impact of post-processing algorithms on the reproducibility of apparent diffusion coefficient (ADC): is it really quantitative?
M. Zschiesche1, M. Leitl1, P.A.T. Bakker1, M. Uder1, M. Dietzel1; 1Erlangen/DE, 1Vienna/AT

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A. Valentini1, L. Fischer1, J.M. Patsch1, J.S. Bauer1, F. Kanberger1, G. Laneg1, M. DiFranco2; 1Munich/DE, 1Vienna/AT

14:00–15:30  Room Z

GI Tract

SS 301b  Gastro-oesophageal and small bowel imaging

14:00  B-0250  Metabolic volumetric parameters assessed with 18F-FDG PET/CT are superior to SUVmax and CT volumetry for predicting long-term outcome in patients with esophageal cancer after neoadjuvant chemotherapy and resection
D. Tamandi1, B. Fureiger1, M. Paredes, A. Haug, S. Schoppmann, A. Ba-Ssalamah, Vienna/AT
**Scientific Sessions**

**Cardiac**

**Room N**

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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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<tr>
<td>14:00</td>
<td>K-05</td>
<td>Keynote lecture</td>
<td>R. Vliegenthart</td>
<td>Groningen/NL</td>
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<td>14:09</td>
<td>B-0261</td>
<td>Calibration of Agatston calcium score using iterative image reconstruction (AIDR 3D) at 120, 100 and 80 kVp instead of the standard reference protocol (FBP at 120 kVp)</td>
<td>J. Blobel, J. Mews, J.D. Schuif, W. Overlaet, Zoetermeer/NL</td>
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<td>14:57</td>
<td>B-0268</td>
<td>Optimising radiation dose by using advanced iterative reconstruction in high-pitch coronary CT angiography</td>
<td>S. Ercole, B. Hueseler, M. Kossowska, A. Bedenklo-Cox, H. Akaid, S. Leschka, Zurich/CH, St.Gallen/CH</td>
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<td>15:05</td>
<td>B-0269</td>
<td>CT coronary angiography with iterative image reconstruction and low iodine (270mgI/mL) concentration: comparison of image quality and injection pressure with standard (320mgI/mL) iodine concentration</td>
<td>L. Faqitoni, M. Capello, C. Galati, M. Bianchi, P. Mura, E. Nes, G. Bartolozzi, Pisa/IT</td>
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Vascular

SS 315  Innovations in vascular imaging

Moderators: D. Brosio, Liege/BE, H. Hoppe, Bern/CH

14:00  B-0272  Non-contrast 3D and QISS magnetic resonance angiography for pre-operative TAVR evaluation
P.M. Cannata1, A. Vanqua-Szemes1, M. Muscopulou1, C.N. De Cecco1, M. Renger1, S. Minjé1, D. Piccin1, S. Girr1, U.J. Schoepf1; 1Charleston, SC/US, 2Lausanne/CH, 3Chicago, IL/US

14:08  B-0273  Free breathing navigated 3D T1w black-blood MRI at 3T for the diagnosis of thoracic large vessel vasculitis
T. Saan1, S. Mauro1, N.N. Kammer1, H. Kooijman1, M. Treitl1, E. Coppenrath1, M.F. Reiser1, K.M. Treitl1; 1Munich/DE, 2Hamburg/DE

14:16  B-0274  Diagnostic accuracy of contrast-enhanced T1 free-breathing GE sequences in the assessment of aortic disease: comparison with standard T1 breath-hold GE 3D angiographic sequences
F.R.L. Jade-Frances1, D. Ipópolito1, P.A. Bonaffini1, B. Fas1, M. Colombo1, S. Sironi1, Monza/IT

14:24  B-0275  3D black-blood T1-weighted turbo spin-echo technique for the diagnosis of deep vein thrombosis: a viable alternative to contrast-enhanced MRI
R.M. Reed1, M. Trett1, N.N. Kammer1, E. Coppenrath1, H. Kooijman-Kurfeurst1, M.F. Reiser1, T. Saan1; 1Munich/DE, 2Hamburg/DE

14:32  B-0276  Aortic haemodynamics after valve-sparing aortic root replacement with a physiologically shaped sinus prosthesis analysed by 4D Flow MRI
T.H. Decker2, J. Haeseleer1, P. Hunold2, C. Schmidtke2, H. H. Severs1, J. Bankhauser1, A. Frydrychowicz1; 1Lubeck/DE, 2Bad Segeberg/DE

14:40  B-0277  New ECG-gated CTA technique coupled with computational flow analysis in ascending thoracic aortic aneurysm
A. Pasta1, C. Paris1, S. Maggio1, A. Luca1, Palermo/IT

14:48  B-0278  Assessment of wall shear stress in patients with aortic disease, with aortic aneurysms and with penetrating aortic ulcers using velocity encoding 4D MRI
M. Renger1, J. Rudolph1, B.M. Gramer1, C. Mansgerlen1, C. Reeps1, B. Lutz1, H.-F. Edelstein1, E.J. Rummery1, A. Huber1; 1Munich/DE

14:56  B-0279  Transcranial doppler ultrasonography in Beta-thalassemia major patients without and with thrombocytosis
A. Shariat1, M. Nazeri1, A. Abolhasani Forough1, M. Khami1, Shiraz/IR

Musculoskeletal

SS 310  Fractures, spinal injuries and spine

Moderators: M. Muto1, Naples/IT, G. Scheuner1, Linz/A1

14:00  B-0282  Extremity CT and ultrasound in the assessment of ankle injuries - occult fractures
D.J. Wilson1, B.M. Allen2, S. Bullock1; 1Oxford/UK

14:08  B-0283  Diagnostic value of DW-SSFP and DW-EPI sequences in differential diagnosis of vertebral osteoporotic fractures from the pathological neoplastic fractures
J.H. Shin1, J. Lim2, J. Park3; 1Seoul/KR

14:16  B-0284  Assessing the performances of the trabecular bone score (TBS) on EOS images for the discrimination of osteoporotic fractures
A. Fevry1, K. Briot1, N.-E. Reagnard1, A. Etcheto1, S. Kolta1, C. Roux2; 1Paris/FR

14:24  B-0285  Trabecular bone microstructure assessed by low-dose MDCT and iterative reconstruction predicts vertebral bone strength
T. Baum1, P. Hopp1, K.A. Nairnudin1, F. Grande Garcia1, R. Burgkart1, E.J. Rummeny1, J.S. Bauer1, P.B. Noël1; 1Munich/DE

14:32  B-0286  Effect of ROI size and positioning on interobserver variability, sensitivity and specificity in the differentiation of acute benign and malignant vertebral body fractures with quantitative diffusion-weighted MRI
T. Geteh1, B. Mangatra1, M. Notohamiprodjo1, A. Biffar1, G. Schmidt1, H. Duerr2, S. Sourbron2, M.F. Reiser1, A. Baur-Melnyk1; 1Munich/DE, 2Munich/DE

14:40  B-0287  ‘The value of DEXA assessment in patients with a possible osteoporotic vertebral fracture’ - a retrospective analysis
O. Aizen2, N. Lee3, C. Groves4; 1Leeds/UK, 2Bradford/UK

14:48  B-0288  DECT evaluation of acute bone marrow contusion in the spine with MRI correlation
O. Ba1, S.-J. Hong1, K. Kang1, B. Kim1, K.-S. Ahn1, S. Lee1, Y. Jang1; 1Seoul/KR, 2Gyeonggi-do/KR
14:55  B-0289  MRI following whiplash injury is improved by routine imaging of the cranio-cervical junction in addition to the cervical spine
P.W. Smith, S. Morgan, Aberdeen/UK, Bristol/UK

15:04  B-0290  Percutaneous vertebroplasty for single or multiple thoracolumbar compression fractures
A.R. Shah, A.M. Hopland, Sheffield/UK

15:12  B-0291  Moiré fringe technique and bi-planar radiography of the spine: accuracy to detect vertebral rotation of mild scoliotic patients
A. Moccoquet, F. Comelis, L. Castaings, F. Petitpierre, C. Fournier, B. Hauger, Bordeaux/FR

15:20  B-0292  Clinical correlation of a new and practical magnetic resonance grading system for cervical foraminal stenosis assessment
H.J. Park, CH Park, Seoul/FR

14:00–15:30  Room E2

Neuro

SS 311a  Brain trauma, degenerative and spine diseases
Moderators: P. Barsi, Budapest/HU, J. Hodel, Lille/FR

14:00  B-0293  Cerebral perfusion disturbances in traumatic brain injury: direct and indirect effects on memory and psychoemotional outcome
E. Papadaki, S. Demetriou, E. Kavroulakis, S. Papadopoulou, P. Simos, A. Karantanas, Iraklion/GR

14:08  B-0294  Development of a common MRI protocol for the collaborative European neuro trauma effectiveness research in TBI study
P. Pullens, J. Verheyden, W. van Hecker, A. Maas, P.M. Panzel, Leuven/BE, Leuven/BE

14:16  B-0295  Prognostic value of DWI and DTI in severe traumatic brain injury: a prospective cohort of 56 patients

14:24  B-0296  Prognostic correlation of MRI findings with levels of parasitaemia in cerebral malaria
A.R. Udya, A. Jha, U. Chauhan, S. Sinoyar, Lucknow/IN, New Delhi/IN

14:32  B-0297  “Power button sign”: a new typical MR imaging pattern of focal cortical dysplasia in the central region

14:40  B-0298  Apparent diffusion coefficient map can help the voxel-based morphometric diagnosis of Alzheimer’s disease

14:48  B-0299  Use of MR tractography and T2* perfusion for differentiating neoplastic and inflammatory cervical cord lesions
M.S. Abdelgawad, M.S.R. Reda, N.A.M. Abdelmonsef, Menofiya/Egypt, Alexandria/Egypt

14:56  B-0300  Natalizumab related PML: atypical neuroradiological findings
S. Seev, A. Caliendo, M. Cana, A. Capita, N. De Rosal, A. Falini, M. Cosottini, Milan/IT, Brescia/IT, Pisa/IT

15:04  B-0301  Cortical gray matter localisation of initially diffusion-positive lesions is associated with no MRI-visible 8-week scar in a cohort of transitory cerebral ischemic attack patients
I. Haxteven, C. Deesen, J. Damin, Nyberg, J. Manstrand, A. Christensen, H. Christensen, Copenhagen/DK

15:12  B-0302  Stress MRI for the assessment of lumbar canal stenosis in degenerative disc disease: comparison with routine MRI
S. Godh, Delhi/IN

15:20  B-0303  Dynamic lumbosacral MRI compared to upright myelography: comparison in the detection of segmental dural compression

14:00–15:30  Room F1

Oncologic Imaging

SS 316  Molecular imaging and new agents
Moderators: A. Pomoni, Lausanne/CH, A.E. Sundin, Stockholm/SE

14:00  B-0304  Diagnostic performance of 68Ga-PSMA-PET/MRI versus 68Ga-PSMA-PET/CT in the evaluation of lymph node metastases of metastatic prostate cancer
M.T. Freitag, J. Radtke, B. Hadaczek, H.-P. Schlemmer, U. Haberkorn, M.C. Roethke, A. Afshar-Oromieh, Innsbruck/Austria

14:08  B-0305  Diagnostic performance of 68Ga PSMA-ligand PET/CT in prostate cancer patients with biochemical relapse
C. Leschka, S. Leschka, M. Benndorf, M. Schumacher, M. Goel, S. Morgan, Bremen/Germany, London/UK

14:16  B-0306  18F-FLT PET in the assessment of chemotherapy in locally advanced breast cancer: a new approach
B. Malkowski, E. Chmielowska, P. Szlezak, T. Gorycki, W. Horninger, W.R. Jaschke, I.J. Virgolini, Innsbruck/Austria

14:24  B-0307  Diagnostic accuracy of 11C-Choline PET/CT in hepatocellular carcinoma (HCC)
14:32
B-0308  Diagnostic value of quantitative perfusion map, with CT-perfusion technique in monitoring of tumour response to sorafenib treatment in patients with advanced HCC lesions: preliminary results
D. Ippolito, G. Quenette, C. Talei Francesi, P.A. Bonaffini, S. Sironi; Monza/IT

14:40
B-0309  Diagnostic value of first-pass CT-perfusion study in the quantitative vascular assessment of primary and metastatic liver lesion: preliminary results
D. Minutolo, D. Ippolito, C. Talei Francesi, M. Munoli, P.A. Bonaffini, S. Sironi; Monza/IT

14:48
B-0310  Feasibility of 10-min delayed hepatocyte phase imaging with 30° flip angle in Gd-EOB-DTPA-enhanced MR imaging for the detection of liver metastases, compared with 20-min delayed imaging with 10° flip angle
D. Lee, E.-S. Cho, I. Jeon; Seoul/KR

14:56
B-0311  Reproducibility of dynamic contrast-enhanced MRI in oncology: 2D vs 3D approach
S. Hiba Atallah, M. Wagner, S. Hasta, O. Luciarinne; Paris/FR

15:04
B-0312  HANP/PTX treatment
L. Zhu, L. Zhang, J. Wang; Xiamen/CN

15:12
B-0313  Theranostic application of a cyanine-based linker functionalised with temozolomide using solid phase chemistry
D. Komljenovic, M. Wiessler, R. Pipkorn, W. Waldeck, K. Braun; Essen/DE

15:20
B-0314  CT perfusion imaging in the evaluation of response to treatment of radiofrequency thermal ablation (RFA), in patients with lung cancer
A. Infante, A. Canteseaccono, A. del Cielo, A.R. Larici, R. Lozi, L. Bonomo; Rome/IT

14:00–15:30 Room F2

Physics in Radiology

SS 313  Advances in MR technology
Moderators: E. Atalar, Ankara/TR, J. Theysohn, Essen/DE

14:00
B-0315  Fast field-cycling magnetic resonance imaging: a new imaging modality
D.J. Luce, L.M. Broche, G.R. Davies, N.R. Payne, K.J. Pine, J. Ross, V. Zampetoulas; Aberdeen/UK

14:08
B-0316  Magnetic resonance spectroscopy, dual-phase and multi-echo gradient-echo MRI in the quantitative assessment of liver steatosis

14:16
B-0317  Hepatic lipid measurement: dual ratio Dixon technique vs MR spectroscopy at 3T scanner

14:24
B-0318  Proton-density fat fraction in an ultra-high-field MR scanner: a feasibility study

14:32
B-0319  Simultaneous reconstruction of attenuation and activity distributions in PET/MRI from PET emission data using MR prior information
T. Heuler; C. Rark, T. Beyer, M. Kachemir; Heidelberg/DE, Vienna/AT

14:40
B-0320  Quality control for quantitative multi-center whole-body PET/MRI studies
R. Boellaard1, I. Rausch2, T. Beyer2, G. Delso3, S. Ziegler4, H.H. Quick1, B. Sattler1; Amsterdam/NL, Vienna/AT, Zurich/CH, Erlangen/DE, Dussburg-Essen/DE, Leipzig/DE

14:48
B-0321  Do we need MRI quality assurance: experience from a multi-unit imaging center with 14 MRI systems

14:56
B-0322  Does MRI influence blood coagulation?
T. Voel, V. Klingmüller, M. Voelcker, A.H. Mänkel, T. Steif, Marburg/DE

15:04
B-0323  Parallel-transmit-accelerated spatially-selective excitation MRI for reduced-FOV diffusion-weighted imaging of the pancreas
K. M. Thierfelder, W. G. Sommer, O. Dietrich, F. G. Meinert, P. M. Paprottka, M. F. Rieger, R. Nikolaou; Munich/DE, Tubingen/DE

15:12
B-0324  Method to determine dynamic in vivo material properties of the achilles tendon using ultrafast MRI sequence
T.J. Vogl, M. Kardeh, G. Silber; Frankfurt a. Main/DE

15:20
B-0325  Texture analysis of R2 map in the assessment of renal function: is this a promising tool?
L. Feliciano, S. Carbone, L. Mazzoni, L. Volterrani; Siena/IT

14:00–15:30 Room D1

Chest

SS 304  Interventional procedures and follow-up
Moderators: I. Vollmer, Barcelona/ES, J.E. Wildberger, Maastricht/NL

14:00
B-0326  Computed tomography characteristics predictive for radial EBUS-miniprobe guided diagnosis of pulmonary lesions
W. de Wever, C. Guvenc, J. Ysebyrt, D. Testelmans, F. Zanca, C. Donnem; Leuven/BE

14:08
B-0327  CT-guided FNAB and biopsy of pulmonary nodules: predictive factors for diagnosis and pneumothorax occurrence
F. Rosella, M. Chiappetta, L.M. Pomes, V. dal’Armi, P. Granone, T. Pironti, L. Bonomo; Rome/IT
14:16  B-0329  Complications of transthoracic CT-guided lung biopsies: a systematic review and meta-analysis
W.J. Heerink, G. de Jonge, R. Vliegenthart, M. Oudkerk; Groningen / NL

14:24  B-0330  In CT-guided transthoracic lung biopsy the contribution of FDG PET/CT in biopsy planning and diagnostic accuracy
Y. Dadali1, O. Ozmen2, U. Caliskan, G. Bursali1, F. Demiracl, Y. Korsemir/TR, AFH/Bar/ TR

14:32  B-0331  Radiofrequency ablation of malignant pleural mesothelioma plaque
G.G. Taverna, F. Brucculeri, E. Oppezzo, G. Gola, M.S.O. Tappero, S. Barbero; Casale Monferrato / IT

14:40  B-0332  The diagnostic value of chest MRI in the follow up of lung cancer patients treated with radio frequency ablation
E. Skondras1, A. Fusco2, J. Beeson1, P. Dalai1; 1 London / UK, 2 Rome / IT

14:48  B-0333  Percutaneous treatment of parapneumonic effusions and complex empyemas with drainage and fibrinolytic therapy
S. Roy-Choudhury, G. Gupta, S. Roy Choudhury, R. Dhar; Kolkata / IN

14:48  B-0334  CT assessment of fissure completeness in target lobe selection for endobronchial volume reduction therapy in COPD
J.B. Seo, S. Shin, S. Lee, S. Oh, S. Kim, Y.-M. Oh; Seoul/KR

15:04  B-0335  Vertebral augmentation in extreme vertebral fractures: comparison between standard and augmented vertebroplasty
M. Tsitskari, D.K. Filippiadis, G. Velonakis, L. Reppas, E. Brountzos, N. Kelekis, A.D. Kelekis; Athens / GR

15:12  B-0336  Metal artifact reduction on chest CT examinations: comparison of the IMAR (iterative metallic artefact reduction) algorithm and monoenergetic approach
J. Pagniez, L. Legrand, J.-B. Faivre, S. Khung, J. Remy, M. Remy-Jardin; Lille / FR

14:00–15:30 Room D2

Interventional Radiology

SS 309  Musculoskeletal interventions

14:00  B-0337  MR-guided high intensity focused ultrasound for non-invasive treatment of osteoid osteoma
G. Tartesco, A. Napoli, G. Brachetti, F. Zaccagna, B. Cavallo Marincola, V. De Soccio, C. Catalano; Rome / IT

14:08  B-0338  MR guided focused ultrasound surgery (MRgFUS) vs radiofrequency thermoablation (RFA) in the imaging-guided treatment of osteoid osteoma: clinical and imaging results
F. Antinori, S. Marioli, A. La Manna, L.M. Gregori, L. Zuagar, A. Barile, C. Masciocchi, L. Aquila / IT

14:16  B-0339  Vertebral augmentation in extreme vertebral fractures: comparison between standard and augmented vertebroplasty
M. Tsitskari, D.K. Filippiadis, G. Velonakis, L. Reppas, E. Brountzos, N. Kelekis, A.D. Kelekis; Athens / GR

14:24  B-0340  Cone-beam computed tomography guided unipedicular central stentoplasty of the thoracolumbar spine: early experience and results
K. Pham, O. Pua, Singapore / SG

14:32  B-0341  The use of cone-beam CT in achieving unipedicular spinal cement augmentation
T.C. Hui, U. Pua, Singapore / SG

14:40  B-0342  Percutaneous vertebroplasty in malignant spinal fractures with posterior vertebral column and/or epidural involvement. Feasibility and results: a review of 63 cases
A. Pellegrin1, G. Gallo1, A. Caudal1, P. Foti1, O. Hauger2, N. Amoretti1; 1 Nice / FR, 2 Bordeaux / FR

14:48  B-0343  Preliminary study for analysis of modification of disk volume and disk fragment in patients with lumbar contained disk herniation treated with CT-guided ozone-oxygen injection
M. Federici, A. Maira, M. Marconi, L. Iacucci, P. Mancini, M. Polito, C. Simonetti, G.R. Ferreti, A. Belli; Rome / IT

14:56  B-0344  Combined microwave ablation and cementoplasty in patients with painful bone metastases at high risk of fracture
C. Pusceddu, R. Feli, B. Sotoga, N. Balicu, L. Melis; Cagliari / IT

15:04  B-0345  Role of CT guided spinal injections in management of chronic low back pain
S.A.Z. Khodair, E. Mashaly, H. Sameer; Quesna / EG

15:12  B-0346  Safety of cervical transforaminal steroid injections under CT guidance: a five-year experience in 248 cases
D. Krause, P. Pottecher, P.-Y. Genson, L. Estvex, S. Favelier, R. Loffroy; Dijon / FR

15:20  B-0347  CT-guided (with wide-volume acquisition) cryoablation in the management of bone and soft tissues lesions with multiple cryoprobes: the advantage of a 3D and real time planning of treatment
F. Antinori, A. La Manna, S. Marioli, L.M. Gregori, F. Smaldone, L. Zuagar, A. Barile, C. Masciocchi, L. Aquila / IT
SS 307  Prostate MR imaging

Moderators: D. Junker; Innsbruck/AT; J. Ravk; Bergen/NO

14:00  K-06  Keynote lecture
H.-P. Schlemmer, Heidelberg/DE

14:09  B-0348  Prostate cancer: assessing the effects of androgen-deprivation therapy using quantitative multi-parametric MRI

14:17  B-0349  Multiparametric MRI (mpMRI) significantly predicts anterior prostate carcinoma (APC) in patients with prior negative biopsy

14:25  B-0350  Agreement between the Roach III equations (RE) and multiparametric 3.0T MRI in assessing the T stage of prostate cancer before external beam radiotherapy (EBR)
M. Panzer, R. Orometti, M. Signor, L. Zuzani, S. Fonzone, B. Massimo, Udine/IT

14:33  B-0351  MR-guided in-bore biopsy: the gold standard of targeted prostate biopsy procedures?

14:41  B-0352  Diagnostic performance of the ESUR PIRADS scoring system for multiparametric MRI of the prostate: systematic comparison of four parameters vs three parameters for detection and grading of prostate cancer

14:49  B-0353  Prostate-MRI: experience of the observer and technical conditions influence the prostate cancer (PCa) detection rate
S. Rödel1, S. Blaut1, E. Dürig1, M. Burke2, R. Paulick3, G. Haroske1, F. Steinbach1, Vienna/AT

14:57  B-0354  PIRADS analysis of prostate cancer at multiparametric MR Imaging: correlation with pathological results
I. Simonetto1, S. Barbera2, G. Addonisio3, C. Dionisi3, Conegliano/IT, Treviso/IT

15:05  B-0355  Transrectal ultrasonography of prostate gland using elastography in differential diagnostics of hypoechoic foci in patients with borderline PSA values
I. Simonetto1, S. Barbera2, G. Addonisio3, C. Dionisi3, Conegliano/IT, Treviso/IT

15:13  B-0356  Mechanical imaging of the prostate by multifrequency MR-elastography

15:21  B-0357  Pain levels in MR-guided in-bore and MRI/ultrasound fusion-guided prostate biopsies

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**Head and Neck**

**SS 308** Temporal bone and temporomandibular joint imaging and new MRI techniques  
Moderators: J. Frühwald-Pallamar; Vienna/AT, S. Petrovic; Nis/RS

14:00  
B-0368  Role of CBCT in visualisation of ear anatomy  
C. Gueldner, R. Weiß, S. Draeger, I. Diogo; Marburg / DE

14:08  
B-0369  Recurrent vertigo: is MRI useful for diagnosis of endolymphatic hydrops in clinical practice?  
A. Attye, G. Dumas, I. Tropres, M. Roustit, A. Karkas, E. Banciu, J. Pietras, N. Fillmann, P. Ottl; Frankfurt a. Main / DE, Rostock / DE

14:16  
B-0370  CT pre-operative planning of Bonebridge™: a new semi-implantable bone conduction hearing device  
E.K.C. Law, W.S.S. Tsang, M.C.F. Tong, S. Lin; Hong Kong / HK

14:24  
B-0371  Auditory brainstem implant: computed tomography assessment of electrodes dislocation  
F. Spagnolli, N. Cardobi, R. Cerini, M. Barillari, V. Colletti, R. Pozzi Mucelli; Verona / IT

14:32  
B-0372  Value of MRI in patients with temporomandibular joint dysfunction: correlation of MRI and clinical findings  
T. Vogl1, H.C. Lauer1, T. Lehner1, N.N. Nagub1, H. Seokanto1, N. Fillmann1, P. Ottl1; Frankfurt a. Main / DE, Rostock / DE

14:40  
B-0373  Comparison of a 32-channel head coil and a 2-channel surface coil for MR imaging of the temporomandibular joint at 3.0 Tesla  
A. Manoliu1, G. Spinner1, M. Wyss1, S. Erni1, D. Ettlin1, L.M. Galio1, G. Andreisek1; Zurich / CH

14:48  
B-0374  MR imaging of the temporomandibular joint at 7.0 Tesla: a feasibility study using novel high-permittivity dielectric pads  
A. Manoliu1, G. Spinner, M. Wyss, S. Erni, D. Ettlin, D. Narz, E.J. Ulbrich1, L.M. Galio1, G. Andreisek1; Zurich / CH

14:56  
B-0376  Automatic segmentation of head and neck deep spaces using morphing techniques  
S. Boussouar1, B. Bouhelal1, B. Giller2, F. Faure3, C. Vaniet1, P. Halimi1, C. C. Celedon1, Paris / FR, Montpellier / FR

15:04  
B-0377  Volumetric quantification of cervical adiposity: a novel anthropometric tool  
H.S. Mansky, Z. Sharfman, P. Gottlieb, S. Tal, Zenifflin / IL

15:12  
B-0378  Does MRI help to distinguish between odontogenic cysts and keratocystic odontogenic tumours?  

**Paediatric**

**SS 312** Bone and soft tissue imaging  
Moderators: O.J. Arthurs; London/UK, A. Kanavakis; Athens/GR

14:00  
B-0379  Correlation of fetal MRI with postmortem imaging and histology in cases of thanatophoric dysplasia  
C. Mitter, G.M. Gruber, U. Nemec, P.C. Brugger, G. Kasprian, D. Prayer; Vienna / AT

14:08  
B-0380  Dynamic contrast-enhanced MR imaging for the evaluation of soft tissue tumours of trunk and limbs in the children  
A. Barathcaveva; Moscow / RU

14:16  
B-0381  Simultaneous whole-body PET/MR Imaging in paediatric sarcomas and malignant soft tissue tumours: preliminary results  
J.P. Schäfer, S. Gmelin, T. Fugit, G. Seitz, M. Ebinger, M. Reimold, C. La Fougere, N. Schneider, B. Nikolaou, T. Vogl; Rostock / DE

14:32  
B-0383  When to make a postmortem babygram and when not  
K. Kamphuis-van Ulzen, U.H.J.L. Koopmanschap, W.M. Klein; Nijmegen / NL

14:40  
B-0384  Fetal short femurs: interest of three-dimensional computed tomography in prenatal management  
M. Reimold, F. Seifert, A. Dörk; Rostock / DE

14:48  
B-0385  Dynamic contrast-enhanced MRI of the wrist in patients with juvenile idiopathic arthritis: a feasibility study  
C.M. Nusman1, C. Lavini, F. Belloy, G. Benoist, J.-P. Pelage; Caen / FR

14:56  
B-0386  Single radiograph of the pelvis for non traumatic hip pathology: what do we miss?  
S. McGurk, E. Lindell, D. Broomfield; Edinburgh / UK

15:04  
B-0387  Tibial bowing in children: what is normal? A radiographic study  
I. Zbinden1, E. Rutz1, J.A. Jacobson2, O. Magerkurth1; Basle / CH, Ann Arbor, MI / US

15:12  
B-0388  Hand bone age determination: quantitative radiographical evaluation method for in 0-59 months aged children  
V. Taravari1, I. Ozyavuz1, E. Yilmaz, D.O. Erol, F. Ertun, R. Sanio, M. Bulakoğlu, B. Bulakoğlu, E. Yekeler; Istanbul / TR

15:20  
B-0389  Ultrasound evaluation of thyroid gland pathologies after radio- and/or chemotherapy during childhood  
A. Lollert, C. Gies, K. Laudenmann, J. Faber, I. Jacob-Heutmann, G. Staatz; Mainz / DE
14:00–15:30 Room MB 3

Cardiac

SS 303b Cardiac function and flow
Moderators: P. Croisille, Saint-Etienne/Fr, P. Donato, Coimbra/pt

14:00
B-0390 Accuracy of cardiac MRI single - and non-breath-hold compressed sensing data for right ventricular volumetry
H. Hauberreisser, S. Sudarski, S.O. Schönberg, T. Henzler, T. Papavassiliu, Mannheim/DE

14:08
B-0391 Influence of late-Gadolinium enhancement on accuracy of quantitative left ventricular assessment in cardiac MRI single breath-hold undersampled input data

14:16
B-0392 Feasibility of real-time magnetic resonance imaging in assessment of ventricular volumes and function in paediatric patients with congenital heart disease

14:24
B-0393 Regional myocardial contractility in thalassemia major by magnetic resonance tagging

14:32
B-0394 Time dependent analysis of left ventricular shear wave amplitudes in diastolic dysfunction measured by MR elastography

14:40
B-0395 CMR evaluation of diastolic function impairment in Cushing’s syndrome and its normalisation with treatment
C. Roux, N. Kachenoura, P. Kamenicky, E. Bollache, E. Mousseaux, P. Chanson, A. Redheuil, Paris/Fr

14:48
B-0396 Quality improvement using educational intervention: improving accuracy of cardiac CT function reporting in triple-rule-out patients with acute chest pain
P. Surand, L. Hewett, Charleston, SC/Us

14:56
B-0397 Evaluation of aortic strain with MR imaging in different pathologic conditions: a retrospective study
P. Scocchi, M. Scarabello, P. Damiani, M. Pettrini, G. di Leo, P. Sardanelli, Milan/It

15:04
B-0398 Intra- and interobserver agreement of noninvasive pressure difference measurements derived from 4D flow MRI in patients with repaired aortic coarctation and healthy volunteers

15:12
B-0399 Magnetic resonance imaging-based diagnosis of pulmonary hypertension: 4D flow versus standard functional indices
G. Reiter, U. Reiter, G. Kovacs, E. Janig, H. Olschewski, M.H. Fuchsjäger, Graz/AT

15:20
B-0400 Cardiovascular magnetic resonance myocardial feature tracking assessment of myocardial mechanics: inter-vendor agreement and considerations on reproducibility

14:00–15:30 Room MB 4

Emergency Radiology

SS 317 Update on imaging approach in trauma patients
Moderators: J.B. Dormagen, Oslo/Nd, L.M. Lenghel, Cluj-Napoca/ro

14:00
B-0401 One-shot volume wrist CT after trauma: fracture detection and therapeutic consequences in a prospective cohort study
A.C.L.P. Steenhakker, M. Holla, J. de Rooij, J. Heemans, M.J.M. Ploegmakers, M. Edwards, M. Prikop, M. Brink, Nijmegen/Nl

14:08
B-0402 Improvement of evaluation time in detection of acute rib fractures by generating rotatable “unfolded rib” images

14:16
B-0403 Traumatic thoracolumbar fractures: assessment by MDCT using Denis’ classification and TLICS scale
L.E. Dru, A. Vela, M. Mann, E. Garces, A. Garcia, J. Artigas, Zaragoza/Es

14:24
B-0404 Validation of the NEXUS-criteria for CT

14:32
B-0405 Whole body computed tomography for trauma patients in the Nordic countries 2014. Survey shows significant differences and a need for guidelines
H. Eklof, E. Wiklund, F. Lindner, S. Koskinen, Uppsala/se, Stockholm/se

14:40
B-0406 Patients subject to high energy trauma without signs of injury do not benefit from whole-body CT imaging
F. Lindner, H. Eklof, Uppsala/se

14:48
B-0407 Watch and wait or irradiate
M. Pagotto, N. Jones, L.-G. Baca, S. Pillai, S. Kumar, Cardiff/uk

14:56
B-0408 Scanning and war: utility of FAST and CT in the assessment of battlefield abdominal trauma
I.M. Smith, D.N. Naumann, M.E.R. Marsden, M. Ballard, D.M. Bowley, Birmingham/uk
15:04
B-0409  CT in trauma patients: automatic dose monitoring for demonstrating the effect of iterative reconstructions
K. Higashigaito, A. Becker, K. Sprengel, G. Wanner, H. Alkadhi; Zurich / CH

15:12
B-0410  Is whole-body CT accurate in management of brain-dead patients before organ harvesting?
C. Roderne-Zins, E. Berthier, L. Dubre, C. Nedelcu, C. Aube; Angers / FR

15:20
B-0411  Comparisons of liver CT perfusion of blunt liver injuries between patients treated with intervention and conservative management
Y.-C. Wong, L.-J. Wang, C.-H. Wu; Taoyuan, Taiwan / TW

14:00–15:30 Room MB 5
Neuro

SS 311b  Hypertension and stenosis

14:00
B-0412  Endovascular treatment in idiopathic intracranial hypertension, clinical result and long-term follow-up
M. Aguilar Pérez1, W. Kurre1, D. Horvath-Itozawa1, R. Unold2, H. Bäzner1, H. Henkes1; 1 Stuttgart/DE, 2 Düsseldorf/DE

14:08
B-0413  Leptomeningeal collateral vessels are a major risk factor for intracranial hemorrhage after carotid stenting in patients with carotid atherosclerotic plaque

14:16
B-0414  Phase contrast and arterial spin labelling magnetic resonance imaging shows improved cerebral blood flow after cardioversion of atrial fibrillation
M. Gardarsdottir1, S. Sigurdsson2, T. Aspelund2, V.A. Gardarsdottir1, V. Gudnason2, D.O. Arnar1; 1 Reykjavik/IS, 2 Kopavogur/IS

14:24
B-0415  Contribution of susceptibility weighted imaging in differentiating acute from chronic internal carotid occlusion
I. Keal1, Y. Kim1, Y. Kim1, Y. Won1, H. Song2; 1 Uijeongbu/KR, 2 Jeju/KR

14:32
B-0416  Intracranial arterial calcifications as a prognostic factor for the subsequent occurrence of mixed adverse cardiovascular events (MACE)
F.F. Strobl, B. Kuhlin, F. Bamberg, M.F. Reiser, T. Saam; Munich/DE

14:40
B-0417  Normal ranges and test-retest repeatability of velocity parameters in intracranial arteries measured with phase contrast magnetic resonance imaging (PC-MRI)
M. Correa de Verdiez, J. Wikström; Uppsala/SE

14:48
B-0418  Endovascular reconstruction of extra- and intracranial vessels after subacute or chronic occlusion: indications, techniques, merits and failures
M. Aguilar Pérez1, W. Kurre1, E. Henkes, A. Lindner, O. Ganslandt, H. Bäzner1, H. Henkes1; Stuttgart/DE
Scientific Sessions

Abdominal Viscera

SS 601a  Focal liver lesions

Moderators: M. Krokidis; Cambridge/UK, B. Marincek; Cleveland, OH/US

10:30  B-0423  Differentiation of intrahepatic mass-forming cholangiocarcinoma from hepatocellular carcinoma on Gadoxetic acid-enhanced liver MR

R. Kim1, J. Lee1, E.-I. Shin1, E. Lee1, J. Joo1, I. Hwang1, S. Kim1, J. Han1, B. Choi1; 1Seoul/KR, Goyang-si/KR

10:38  B-0424  Discrimination of Hepatic Alveolar Echinococcosis from Intrahepatic Cholangiocarcinoma using CT and MR Imaging


10:46  B-0425  MRI features of inflammatory hepatocellular adenomas on hepatocyte phase imaging with liver-specific contrast agents

M.G. Thomeer, F. Willemssen, K. Biermann, R. de Man, J. IJzermans, R.S. Dwarkasing; Rotterdam/NL

10:54  B-0426  Gd-EOB-enhanced MRI: findings of hepatocellular adenomas and subgroup differentiation

E. Dienstein1, G. Steffen1, D. Schöfer1, I.-B. Kilic1, A. Huppertz1, B. Hamm1, T. Denecke1; 1Berlin/DE

11:02  B-0427  Frequency, CT findings, and fate of multiple infarcted regenerative nodules in liver cirrhosis after variceal bleeding or septic shock

S. Lee; Seoul/KR

11:10  B-0428  Impact of observer experience on diagnostic performance in reporting CT and MRI examinations of histopathologically proven non-colorectal liver metastases


11:18  B-0429  Application of dual-energy CT in hypervascular neoplastic lesions of liver: subjective and objective analysis in 64 lesions

M.D. Mahajan1, R. Palvai1, S. Soneji3, S.B. Desai2; 1Bangalore/IN, 2Mumbai/IN, 3Montreal/QC/CA

11:26  B-0430  Intermediate-stage HCC treated with TACE: proposal for a new scoring system

B. Ginegli, A. Sonnini, F. Caltagirone, F. Scalise, I. Bangelini, C. Bartolozzi; Pisa/IT

11:34  B-0431  Significance of gadoxetic acid-enhanced MR imaging signal intensity for predicting the efficacy of hepatic arterial infusion chemotherapy in hepatocellular carcinoma


11:42  B-0432  Gd-EOB-DTPA-enhanced MRI: diagnostic application of the evaluation of the enhancement kinetic curve obtained with MRI of liver tumours

B. Medvedeva, A. Lukyanenko; Moscow/RU

Breast

SS 602  Imaging techniques and interventions

Moderators: F. Engelken; Berlin/DE, F. Pediconi; Rome/IT

10:30  B-0434  The value of BIRADS classification in paediatric population and radiologic management of lesions

Ö.S. Okcu1, F. Can2, I. Bilgen1, A. Oktay1; 1Izmir/TR, 2Kutahya/TR

10:38  B-0435  Review of invasive cancers not initially identified by automated whole-breast ultrasound screening: an analysis of the rate of tumour growth

K.M. Kelly; Pasadena, CA/US

10:46  B-0436  Detection of malignant and benign breast lesions in contrast-enhanced spectral mammography (CESM) compared to ultrasound (US): initial results

C.M. Perez-Fernandez1, F. Schmitzberger, M. Halbstock1, M. Gottlieb1, Y. Tapi1; Reggio Emilia/IT, Guastalla/IT

10:54  B-0437  Contrast-enhanced spectral mammography in treatment monitoring: an initial comparison to breast MRI

S. Awad1, R. Saghezdi1, A. Nitissi1, V. Iotti1, C. Corian1, R. Vacco1, C. Morn1, V. Sironchi1, P. Pattacini1; Reggio Emilia/IT

11:02  B-0438  Background parenchymal enhancement (BPE) in contrast-enhanced spectral mammography (CESM): classification and evaluation of impact on diagnostic performance

M. Sklair-Levy1, A. Shalmon1, Y. Servadio1, A. Rundstein1, D. Halbstock1, M. Gottlieb1, Y. Tapi1; Ramat Gan/IL

11:10  B-0439  Comparison of the accuracy of US-guided biopsy of breast masses performed with 18-gauge, 16-gauge and 14-gauge automated cutting needle biopsy devices

M.L. Huang, K. Hess, R.P. Candelaria, D. Eghtedari, B.E. Adrada, N. Sneige, B.D. Fornage; Houston, TX/US

11:18  B-0440  Modern management of acute breast abscesses: radiological interventions replacing surgical incisions?

N.A. Healy, P. Hughes, M. Stenson, S. Harte; Dublin/IE

11:26  B-0441  Clinical and sonographic predictors of complete resection for percutaneous excision of benign symptomatic breast lesions using US-guided vacuum-assisted breast biopsy system

J.P. Salazar1, I. Miranda, Y.K. Ng Wong1, C. Ávella-García1, I. Rubio1, R. Salvador1; Barcelona/ES
11:34  B-0442  Papillary lesions of the breast: is ultrasound-guided VAB useful in their management?
V. Serrano1, P. Blazer1, A. De Nicola1, M. Pozzan2, L. Zuiani1, M. Bazzocchi1, E. Cassano1; 1 Udine/IT, 2 Milan/IT

11:42  B-0443  Non-surgical complete excision of small suspicious breast lesions using the breast lesion excision biopsy system (BLES)
N.M. Malek1, R. Ee2, C.K. Ee2; 1 Goa/IN, 2 Osaka/JP

11:50  B-0444  Can the breast lesion excision biopsy system (BLES) under stereotactic guidance be used as a therapeutic tool in the assessment of small areas of microcalcifications of the breast?
R.J. Mills1, M. Bernathova2, P.A.T. Baltzer1, K. Pinker-Dornenberg1, P. Knapeta1, M. Rudas1, T.H. Heibich1, Vienna/AT

10:30–12:00  Room Z
Computer Applications
SS 605  Dose tracking: assessment and reduction of artefacts
Moderators: N. Kachenoura1, Paris/FR, J. Thrall2, Boston, MA/US

10:30  B-0445  Impact of automated attenuation-based tube voltage selection on radiation dose at CT: an observational big data analysis on a global scale
J.V. Spearman1, J.L. Wichmann1, F.G. Meinel1, I. Driesser2, C. Canstein2, J. Vliegenthart1, T.H. Helbich1; 1 Vienna/AT, 2 Mannheim/DE

10:38  B-0446  Lessons learned from developing and establishing a national web-based MDCT DRL survey program
A.B. Wallace1, A. Hayton3, Yallambie/AU

10:46  B-0447  Adult CT dose monitoring using web based radiation dose tracking software
M. Twomey1, K. Murphy2, M. Sheehy2, M.M. Maher2, D.J. O’Connor2, Cork/IE

10:54  B-0448  Accuracy of SSDs calculation using radiation dose tracking software (RDDS)

11:02  B-0449  Automatic cloud-based monitoring and analysis of computed tomography (CT) dose exposure using DICOM-structured report (DICOM-SR)
J. Boos1, A. Menke2, R.S. Lanzenan3, C. Schleich1, D.T. Bethge1, G. Antoch1, P. Kripp1, Düsseldorf/DE

11:10  B-0450  Simulation study about the accuracy of advanced airway geometry determination on MDCT using a computer-generated phantom
O. Wehler1, L.P. Heuvel1, H.-U. Kauczor1, M.O. Wielputz1, Heidelberg/DE

11:18  B-0451  Lobewise registration of the lungs in computed tomography improves anatomically correct voxel-to-voxel mapping of inspiration and expiration data
T. Pia1, S. Dettmer1, O. Solyanik2, W. Frank3, H.-o. Shin4, Hannover/DE

11:26  B-0452  CAD software for assessment of pulmonary nodules with 100kV/Tin-filtered input data comparing iterative to filtered back projection reconstructions: a third-generation dual-source CT phantom study
S. Suda1, T. Stock1, M. Meyer1, P. Haubenreisser1, S.D. Schöberg1, R. Vliegenthart1, T. Henzler1, Mannheim/DE, Groningen/NL

11:34  B-0453  The visibility of lesions around hip prosthesis in gemstone spectral imaging dual energy CT: with or without metal artifact reduction software
J. Jeong1, J.-H. Kim1, J. Cha2, H. Lim3, S. Hong1, J. Han4, Seoul/KR, Bucheon/KR

11:42  B-0454  Adaptive statistical iterative reconstruction technique to reduce radiation dose of brain CT in children
P. Lupo1, F.A. Lupo2, G. De Mattes1, G. Sticchi1, Foggia/IT, Lecce/IT

11:50  B-0455  Use of dose tracking software for assessment of patient positioning in CT
M. Tsvanev1, K. Murphy2, R. Carey2, P. Nicholson2, M. Sheehy2, O. O’Connor2, M.M. Maher1, Cork/IE

10:30–12:00  Room M
GI Tract
SS 601b  Inflammatory bowel disease
Moderators: R. Del Vescovo1, Rome/IT, C. Höhl2, Siegen/DE

10:30  K-08  Keynote lecture
S. Romano1, Naples/IT

10:39  B-0456  The impact of Gadolinium-based contrast agent in the assessment of Crohn’s disease activity: Is it contrast agent injection necessary?
E. Ruska1, M. Pontello1, R. Antjer1, M. Cova2, Trieste/IT

10:47  B-0457  Diagnostic value of CEUS to detect acute phase of Crohn’s disease: systematic review and meta-analysis
M. Biaček1, A. Biačekova1, Z. Serafin1, Bydgoszcz/PL

10:55  B-0458  Comparison of the impact of MRI and colonoscopy on management of Crohn’s disease
J. Rimola1, A. Lopez1, E. Ricart1, J. Panes1, Barcelona/ES

11:03  B-0459  Diffusion-weighted MRI for prediction of long-term outcomes in patients with perianal fistulas in Crohn’s disease treated with anti-tumour necrosis factor antibodies
K. Katulska1, M. Wykrętowicz1, P. Eder1, P. Stajgis1, K. Linke2, P. Stajgis2, Poznan/PL

11:11  B-0460  Multicentre prospective evaluation of software quantified small bowel motility as a biomarker of inflammatory activity in Crohn’s disease
E.P. Impey1, A. Menke1, D. Akenson1, H. Makaryan1, G. Bhatnagar1, C. Tuilernoltheireux1, S.A. Taylor2, London/UK, Amsterdam/NL
Scientific Sessions

11:19  B-0461  Is plain MRI feasible to evaluate inflammation and bowel damage in IBD? A prospective comparison with conventional MR enterography

11:27  B-0462  MR enterography including diffusion weighted imaging compared to capsule endoscopy in patients with suspected or known inflammatory bowel disease

11:35  B-0463  Monitoring response to infliximab monotherapy in Crohn’s disease with interval ultrasound: a safe and objective option

11:43  B-0464  CT-enterography: diagnostic value of 4th generation iterative reconstruction algorithm in low-dose protocol in comparison with standard dose CT protocol for clinical follow-up of patients with Crohn’s disease

11:51  B-0465  MR features of anoperineal involvement in hidradenitis suppurativa: comparison with Crohn’s disease

10:30–12:00 Room N

Cardiac

SS 603a  Myocardial infarction and coronary intervention

10:30  K-09  Keynote lecture

10:39  B-0466  An investigation into the underlying rate of silent myocardial infarction in a low-intermediate risk asymptomatic cohort

10:47  B-0467  Long-term prognostic value of dipyridamole stress cardiovascular magnetic resonance in patients with known or suspected coronary artery disease

10:55  B-0468  A preliminary study about the use of diffusion-weighted images (DWI) in the evaluation of ST-segment elevation myocardial infarction (STEMI): our experience

11:03  B-0469  Serial native T1- and T2-mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction

11:11  B-0470  Assessment of intramyocardial haemorrhage in acute reperfused myocardial infarction using 7.0T CMR T2 mapping

11:19  B-0471  Incidence and role of intramyocardial haemorrhage (IMH) in the assessment of STEMI pts through the use of T2 STAR (T2*) and T2 STIR sequences

11:27  B-0472  Infarct evolution patterns following a revascularised acute myocardial infarction: a multilayer model for LGE analysis

11:35  B-0473  Delayed dual-energy CT (DECT) and conventional cardiac CT angiography (CCTA) in detection of chronic myocardial scar tissue: do we need delayed acquisition? Comparison with MRI

11:43  B-0474  CT evaluation of small-diameter coronary artery stents: impact of an integrated circuit detector with iterative reconstruction using 3rd generation dual-source CT

11:51  B-0475  Diagnostic accuracy of dual-source computed tomography in evaluation of coronary in-stent restenosis: a meta-analysis

10:30–12:00 Room L 1

Vascular

SS 615  Vascular imaging in systemic diseases

10:30  B-0476  Systemic venous anomalies in patients with pulmonary atresia: a CT angiographic study

10:38  B-0477  CT angiographic features of large and medium size arterial vasculopathy of the upper limbs in systemic sclerosis using 320 multidetector row scanners

10:30  B-0468  A preliminary study about the use of diffusion-weighted images (DWI) in the evaluation of ST-segment elevation myocardial infarction (STEMI): our experience

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10:30–12:00 Room L 1
10:45  B-0478  Characterisation of aortic distensibility in a rat model of atherosclerosis using high-resolution black blood cine sequences at 9.4 T
P. Zieg; T. Ziegler, A. Muller, F. Mahfoud, M. Hohl, D. Lintz, A. Massmann, G.R. Schneider, A. Buecker; Homburg/DE

10:54  B-0479  Follow-up of atheroma burden with sequential whole body contrast enhanced MR angiography: a longitudinal cohort study
J.R. Weer-McCall, R.D. White, P. Dutta Kanikumar, J.J.F. Belch, A.D. Struthers, G. Houston; Dundee/UK, Cardiff/UK

11:02  B-0480  Prediction of recurrent adverse events and organ specific risk in diabetic patients by contrast-enhanced whole body MRI

11:10  B-0481  Screening for asymptomatic cardiovascular disease with contrast enhanced MRI: association of left ventricular mass with whole body atheroma burden, cardiovascular risk and B type natriuretic peptide

11:18  B-0482  Reproducibility of manual measurement of intima-media thickness at distal common carotid artery under a strict measurement protocol by carotid ultrasound in 242 subjects
J. Plasencia Martínez, J. García Santos; Murcia/ES

11:26  B-0483  Classification of coronary and carotid atherosclerotic plaque by grating-based phase-contrast computed tomography

11:34  B-0484  Simultaneous PET-MR imaging with FDG for the evaluation of symptomatic patients with non-stenotic carotid atherosclerotic plaques

11:42  B-0485  Super micro-vascular imaging; a new technique detecting neovascularisation in carotid plaque
Q. Yong, L. Zhang, J. Yuan, J. Mu; Beijing/CN

11:50  B-0486  3D-black-blood 3T-MRI of the vessel wall and beyond: a clinical perspective
T. Saam, R.M. Tretti, N.N. Pamir, H. Kooijman, M.F. Reiser, E. Copperrath; Munich/DE, Hamburg/DE

10:30  B-0487  Biceps pulley and rotator interval of the shoulder in athletes: MR-arthrography dynamic evaluation
B. He, Q. Dong; Gyeonggi-do/KR, Ann Arbor, MI/US

10:38  B-0488  Evaluation of rotator cuff tears by MR arthrography using the Snyder’s arthroscopic classification and arthroscopy as reference standard
C. Agten, A. Aliprandi, N. Verardi, San Donato Milanese/IT

10:46  B-0489  High-frequency ultrasonography in penetrating tendon and nerve injuries of the upper extremity
M. Haroon, I. Ahmad, M. Asfar Soltisqa, Sanamnarakams, Aligarh/IN

10:54  B-0490  Quantitative shear wave ultrasound elastography of the supraspinatus muscle in relation to tendon integrity and muscle quality
A.B. Rosskopf, C. Ehrmann, F.M. Buck, C. Gerber, C.W.A. Pfirrmann; Zürich/CH

11:02  B-0491  The effect of percutaneous ultrasound-guided subacromial bursography using microbubbles in assessment of subacromial impingement syndrome: initial experience
M. Li; Chengdu/CN

11:10  B-0492  Evaluation of recurrent rotator cuff tendon tears: comparison of MRI, MR arthrography and ultrasound
B. He, Q. Dong; Ann Arbor, MI/US

11:18  B-0493  Quantitative imaging of fatty infiltration of the supraspinatus tendon using single-voxel MR spectroscopy
C.A. Astner, S. F.M. Buck, C.W.A. Pfirrmann; Zürich/CH

11:26  B-0494  MR imaging after supraspinatus tendon repair with good clinical outcomes: morphology and signal alterations of the supraspinatus tendon
C.A. Astner, F.M. Buck, C.W.A. Pfirrmann; Zürich/CH

11:34  B-0495  Usefulness of IDEAL T2 imaging for homogeneous fat suppression and reducing susceptibility artifacts in brachial plexus MRI at 3T
B. Bayotti, S. Ainadi, F. Zaottini, G. Tagliafico, L. Martinoli, A. Tagliafico; San Donato Milanese/IT

11:42  B-0496  Comparison of 3T MR elastography and shear wave US elastography measuring normal skeletal muscle stiffness: a pilot study
D. May, S.-J. Hong, C. Kanai, B. Kim, K.-S. Ahn, S. Lee; Seoul/KR, Gyeonggi-do/KR
11:50  B-0498  Three-dimensional glenohumeral relationship of different surgical glenoid planes: a three-dimensional CT-scan study
T.R.G.M. Verstraeten, L.F. De Wilde; Gent/BE

11:58  B-0499  Preoperative guiding for the reconstruction of the native glenoid plane: an anatomical three-dimensional CT-scan reconstruction study
T.R.G.M. Verstraeten, L.F. De Wilde; Gent/BE

10:30–12:00  Room E2

Neuro

SS 611  Brain tumour (1)
Moderators: N. Banqalid, Barcelona/ES, Y. Özsunar, Aydin/TR

10:30  K-10  Keynote lecture
I.M. Björkman-Burtscher; Lund/SE

10:39  B-0500  Perfusion and permeability MRI biomarkers for enhancing and nonenhancing components predict patient survival in newly diagnosed glioblastoma
O. Solà1, J. Puig1, G. Blasco1, J. Daunis-i-Estadella1, M. Essig2, R. Jain3, M. Puigdemont1, S. Pedraza1; 1Girona/ES, 2Winnipeg, MB/CA, 3New York, NY/US

10:47  B-0501  Prognosis prediction of measurable enhancing lesion after completion of standard CCRT and adjuvant temozolomide in glioblastoma patients: application of dynamic susceptibility contrast perfusion and DWI
J. Kim, S. Choi, T. Yun, J.-H. Kim, C.-H. Sohn; Seoul/KR

10:55  B-0502  The functional language connectome in frontal and temporal gliomas
K.-H. Nemming, A. Müller, D. Prayer, G. Lanap, G. Kasprian; Vienna/AU

11:03  B-0503  Prognostic value of dynamic contrast-enhanced MRI for therapeutic evaluation of brain metastases from lung cancer

11:11  B-0504  Tumour permeability pattern: a potential for new prognostic factor in immunocompetent patients with primary CNS lymphoma
S. Chung, H. Kim, C. Choi, S. Kim; Seoul/KR

11:19  B-0505  The value of serial MR imaging in the assessment of brain metastases volume control during stereotactic radiosurgery
G. Sparacia1, A. Bianco1, F. Bencivenga1, G. La Tona1, V. Robustoi2, M. Midini1; 1Palermo/IT, 2Newark, DE/US

11:27  B-0506  Intracranial multi-echo MR perfusion measurements: reproducibility and differential diagnostic value for intra- and extraaxial tumours
A. Amirzadeh, V. Hietzschold, K. Stoci-Floici, R. von Kummer; Dresden/DE

11:35  B-0507  Peritumoural perfusion and proton spectroscopic MR imaging in the differentiation of gliomas and solitary metastases
G. Sparacia1, A. Iaia1, J. Gadde2, M. Midini1; 1Palermo/IT, 2Newark, DE/US

11:43  B-0508  DWI and dynamic susceptibility contrast perfusion-weighted imaging of ganglioglioma in adults: comparison study with oligodendroglioma
S. Lee, S. Choi; Seoul/KR

11:51  B-0509  Recurrence of high-grade glioma and post-treatment effects: differentiation by using perfusion and proton spectroscopic MR imaging
C. Ho; Singapore/SG

10:30–12:00  Room F1

Oncologic Imaging

SS 616  Whole-body imaging of systemic tumour spreading

10:30  K-11  Keynote lecture
X. Montet; Geneva/CH

10:39  B-0510  Whole-body MRI with T1, STIR and DWI: first non-invasive step to rule out bone marrow involvement in aggressive lymphoma - feasibility study
A. Balbo-Mussetto, A. Fornari, C. Lario, M. Petracchini, C. Saviolo, R. Bruna, C. Tarella, S. Cirillo, Turin/IT

10:47  B-0511  Whole-body DW-MRI in staging of indolent lymphomas: comparison with FDG-PET/CT
F. Buemi1, A. Stecco1, M. Quagliozzi1, M. Perchinunno1, A. Biacca1, A. Santagostino1, M. Lombardi1, A. Carriero1; 1Novara/IT, 2Vercelli/IT

A. Balbo-Mussetto, A. Fornari, C. Lario, M. Petracchini, C. Saviolo, A. Guelli, A. De Cristofono, C. Tarella, S. Cirillo, Turin/IT

11:03  B-0513  Diffusion-weighted MR at 3T for therapy response assessment in Hodgkin’s lymphoma: comparison with FDG PET

11:11  B-0514  Incremental value of diffusion-weighted whole-body imaging with background body signal suppression coupled with multiparametric MR imaging for the detection of skeletal metastasis in prostate cancer
C. Das, P. Chakraborty, A.K. Gupta, C.S. Bal, Dehr/IN
Comparison between whole-body MRI and PET/CT in staging newly diagnosed FDG-avid lymphomas: our experience

Comparison of diagnostic certainty for abdominal incidentalomas in 18F-FDG PET/MRI and 18F-FDG PET/CT
B.M. Schaeffenhövel, J. Grueneisen1, P. Heusch1, L. Urmutlu1, V. Ruhmann1, S. Rotenberg-Krumhübel1, G. Arndt1, C. Buchbender1, G. Schirp9, DE; 2Essen/DE

ADC of normal abdominal organs and bone marrow from whole body DW-MRI at 1.5T: the effect of sex and age
F. Castelli1, I. Lavdas2, A.G. Rockall2, R.S. Sandhu2, P. Bonaffini2, C. Talei Franzesi2, D. Fior, S. Sironi; 3Rome/IT

Achieving lower radiation dose in follow-up of oncologic patients: comparison of whole-body CT with 4th generation iterative reconstruction algorithm and standard dose examination
A. Castegna1, D. Ippolito, P. Bonaïff, C. Talei Francesi, D. Fior, S. Sironi; Monza/IT

Image based body surface area evaluation: quantitative radiology vs anthropomorphic evaluation
A. Lannestå, H. Beuvaumont; L. Bastiani; 2Nice-FR, 2Valbonne/FR

Thursday
11:19
B-0515 Comparison between whole-body MRI and PET/CT in staging newly diagnosed FDG-avid lymphomas: our experience

11:27
B-0516 Comparison of diagnostic certainty for abdominal incidentalomas in 18F-FDG PET/MRI and 18F-FDG PET/CT
B.M. Schaeffenhövel, J. Grueneisen1, P. Heusch1, L. Urmutlu1, V. Ruhmann1, S. Rotenberg-Krumhübel1, G. Arndt1, C. Buchbender1, G. Schirp9, DE; 2Essen/DE

11:35
B-0517 ADC of normal abdominal organs and bone marrow from whole body DW-MRI at 1.5T: the effect of sex and age
F. Castelli1, I. Lavdas2, A.G. Rockall2, R.S. Sandhu2, P. Bonaffini2, C. Talei Franzesi2, D. Fior, S. Sironi; 3Rome/IT

11:43
B-0518 Achieving lower radiation dose in follow-up of oncologic patients: comparison of whole-body CT with 4th generation iterative reconstruction algorithm and standard dose examination
A. Castegna1, D. Ippolito, P. Bonaïff, C. Talei Francesi, D. Fior, S. Sironi; Monza/IT

11:51
B-0519 Image based body surface area evaluation: quantitative radiology vs anthropomorphic evaluation
A. Lannestå, H. Beuvaumont; L. Bastiani; 2Nice-FR, 2Valbonne/FR

11:00
B-0524 Fractional anisotropy of the fetal midbrain is specifically elevated in Chiari II malformations

11:10
B-0525 Selected regional changes in brain diffusivity in fetal isolated mild ventriculomegaly
R. Bercovitz; G. Yaniv, E. Katorza, D. Bergman1, C. Hoffmann1, A. Biegon1, 1Ramat Gan/IL, Jerusalem/IL, 2New York, NY/US

11:18
B-0526 Automatic white matter tract segmentation in the neonatal brain
C.V. Fuli1, L. Fonseca1, N. Lori1, J. Bujs1, P. Andressen1, A. Vlavianos1, 1Velshoven/NL, 2Eindhoven/NL, 3Cobamba/NL, 1Dejdt/NL

11:26
B-0527 Association between retinoblastoma tumour size and tumour extent
M.C. de Jong1, F. van der Meer1, S. Gönckü1, H.J. Brisse1, P. Galluzzo1, P. Maeder1, A. Moll1, J. Casteljina1, P. de Grailf1; 1Amsterdam/NL, 2Essen/DE, 3Paris/FR, 4Sienna/IT, 5Lausanne/CH

11:34
B-0528 DTI and MR spectroscopy study in the auditory neural pathway of paediatric congenital sensorineural hearing loss patients
C.X. Wu, W.B. Zhang; Shantou/CN

11:42
B-0529 Neonatal lumbar puncture: are traditional clinical landmarks of lumbar anatomy accurate when compared with ultrasound assessment?
B. Baxter, J. Evans, R. Morris, G. Chaffot, M.P. Kent; T. Weldon, T. Hildebrandt, G. Tudor, Bridgend/UK

11:50
B-0530 Comparison of 3T MRI, PET and Ictal SPECT in presurgical localization of the seizure-onset zone in paediatric patients with refractory temporal lobe epilepsy
H.M. Kassem1, A. Wafaie2, N. Al Adwan1, N. Al Khuraish1, Z. Azmat1, S. Al Jubran1, H. Farghaly3, L. Affifi2, N. Al Mahdy1, 1Cairo/Egypt, 2Assut/FG

10:30–12:00 Room F2
Paediatric
SS 612 Foetal and paediatric neuroimaging
Moderators: I. Bonic, Zabok/HR, P.C. Maly Sundgren; 1Barcelona/ES, 4Vienna/AT, 3Zabok/HR

10:30
B-0520 Correlation between fetal and postmortem MRI and conventional autopsy in the detection of major fetal abnormalities
M. Saldan, S. Bernard, V. Vinci, A. Giancotti, L. Manganaro, C. Catalano; Rome/IT

10:38
B-0521 Biometric and diffusional changes in apparently normal fetal head MRI scans of fetuses with congenital heart disease
R. Bercovitz; G. Yaniv, V. Vechsmeister Abbol1, C. Hoffmann1, A. Furer1, E. Katorza1, D. Bergman1, A. Biegon1, 1Ramat Gan/IL, 2Tel Avivu/IL, 3Jerusalem/IL, 4New York, NY/US

10:46
B-0522 Disrupted developmental organisation of brain connectivity in fetuses with corpus callosum agenesis: an in utero study
A. Jakób1, G. Kasprian, E. Schwartz1, G.M. Gruber1, D. Prayer1, G. Langs1, V. Schirp1; 1Vienna/AT, 2Graz/AT

10:54
B-0523 Fetal MRI in the evaluation of facial anomalies: is there a role?
M. Saldan, S. Bernard, V. Vinci, A. Giancotti, L. Manganaro, C. Catalano; Rome/IT

11:00
B-0524 Fractional anisotropy of the fetal midbrain is specifically elevated in Chiari II malformations

11:10
B-0525 Selected regional changes in brain diffusivity in fetal isolated mild ventriculomegaly
R. Bercovitz; G. Yaniv, E. Katorza, D. Bergman1, C. Hoffmann1, A. Biegon1, 1Ramat Gan/IL, Jerusalem/IL, 2New York, NY/US

11:18
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C.V. Fuli1, L. Fonseca1, N. Lori1, J. Bujs1, P. Andressen1, A. Vlavianos1, 1Velshoven/NL, 2Eindhoven/NL, 3Cobamba/NL, 1Dejdt/NL

11:26
B-0527 Association between retinoblastoma tumour size and tumour extent
M.C. de Jong1, F. van der Meer1, S. Gönckü1, H.J. Brisse1, P. Galluzzo1, P. Maeder1, A. Moll1, J. Casteljina1, P. de Graif1; 1Amsterdam/NL, 2Essen/DE, 3Paris/FR, 4Sienna/IT, 5Lausanne/CH

11:34
B-0528 DTI and MR spectroscopy study in the auditory neural pathway of paediatric congenital sensorineural hearing loss patients
C.X. Wu, W.B. Zhang; Shantou/CN

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11:50
B-0530 Comparison of 3T MRI, PET and Ictal SPECT in presurgical localization of the seizure-onset zone in paediatric patients with refractory temporal lobe epilepsy
H.M. Kassem1, A. Wafaie2, N. Al Adwan1, N. Al Khuraish1, Z. Azmat1, S. Al Jubran1, H. Farghaly3, L. Affifi2, N. Al Mahdy1, 1Cairo/Egypt, 2Assut/FG

10:30–12:00 Room D1
Chest
SS 604 Pulmonary nodule
Moderators: C. Mueller-Mang, Vienna/AT, M. Sánchez, Barcelona/ES

10:30
K-010 Keynote lecture
A. Hoffa; London/UK

10:39
B-0531 Ultralow-dose CT with tin-filtration for detection of solid and sub-solid pulmonary nodules: a phantom study
K. Martin, K. Hoagshapato, B.K. Barth, S. Baumüller, T. Frauenfelder; Zurich/CH

10:47
B-0532 Comparison of model-based iterative reconstruction with iDose4 and filtered back projection for the analysis of ground-glass opacity nodule in the chest phantom
J. Nam, S. Choi, S. Shin, J. Lee, K. Bae, J. Park, W. Kwon; Ulsan/KR
**Interventional Radiology**

**SS 609** Neuro interventions

- **10:30 - 10:41** Novel x-ray shielding device for reducing the lens exposure during endovascular treatment for brain diseases

**SS 607a** DWI in prostate cancer

- **10:42 - 10:52** Radiation dose reduction in CT fluoroscopy-guided cervical transforaminal epidural steroid injection by minimising preliminary planning step
  - N. Paik, Ulsan/KR

- **10:53 - 11:03** Reducing the dose in CT-fluoroscopy-guided epidural/ perineural injections-how low remains safe?
  - S.M. Nazmus, M. Haas, J. Vahlidiek, K. Erb-Eufer, B. Hanno, Berlin/DE

- **11:04 - 11:14** Preoperative embolisation of meningiomas: analysis of a single-centre experience
  - A. Pedicelli, L. Danieli, M. Medici, C. Viscordi, F. D'Argento, C. Colosimo, Rome/IT

- **11:15 - 11:25** The role of ultra-high b-value diffusion-weighted MRI for detection of the index tumour in patients with prostate cancer
  - E. Rud, E. Baco, H.B. Eggesbø, Oslo/NO

- **11:26 - 11:36** Detection of residual clots after endovascular stroke therapy with dual energy CT

- **11:37 - 11:47** Does the therapist’s attitude affect the clinical outcome of lumbar facet joint intra-articular injections?

- **11:48 - 11:58** Complete recanalization after mechanical thromboembolectomy with stent retrievers: comparison between balloon guide catheter (BCG) and distal access catheter (DAC) in acute ischemic stroke

- **11:59 - 12:09** Detection of residual clots after endovascular stroke therapy with dual energy CT

**10:30 - 10:41 Room D2**

- **10:30 - 10:41** Novel x-ray shielding device for reducing the lens exposure during endovascular treatment for brain diseases

**10:42 - 11:14 Room G**

**Genitourinary**

- **10:42 - 10:52** New single-layer WEBs intrasaccular flow disrupters for intracranial aneurysm treatment: preliminary results of a European multicenter study

- **10:53 - 11:03** Endovascular treatment of ruptured blister-like aneurysms with special reference to the flow-diverting strategies
  - M. Gok, L. Quan, H. Boukaya, I. Gran, R. TR, Izmir/TR

- **11:04 - 11:14** Complete recanalization after mechanical thromboembolism with stent retrievers: comparison between balloon guide catheter (BCG) and distal access catheter (DAC) in acute ischemic stroke

- **11:15 - 11:25** Detection of residual clots after endovascular stroke therapy with dual energy CT

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- **11:48 - 11:58** Does the therapist’s attitude affect the clinical outcome of lumbar facet joint intra-articular injections?
10:38  B-0553  Role of DWI at prostatic lesions at 3T-MRI in the discrimination of grading: correlation of imaging, quantitative analysis and pathology at 189 MR-guided prostate biopsies
A. Malith, Nordhausen/DE

10:46  B-0554  Small field-of-view single-shot EPI-DWI of the prostate: evaluation of spatially-tailored two-dimensional radiofrequency excitation pulses

10:54  B-0555  Assessment of prostate cancer aggressiveness using the combination of quantitative diffusion-weighted and dynamic contrast-enhanced MRI

11:02  B-0556  Advantages of zoomed EPI with parallel-transmit-accelerated 2D-selective excitation imaging in diffusion-weighted MRI of the prostate

11:10  B-0557  Comparison of field-of-view (FOV) optimised and constrained undistorted single-shot (FOCUS) with conventional DWI for the evaluation of prostate cancer
Z. Feng, Wuhan/CH

11:18  B-0559  Diffusion-weighted imaging of the prostate: comparison of readout-segmented DWI and parallel-transmit-accelerated selective excitation DWI regarding image quality and distortion
B.H. Park1, A. Cornelius2, D. Nara2, D. Eberli1, D.F. Donah1; 1Zürich/CH, 2Aarau/CH

11:26  B-0560  Added value of multiparametric MRI to clinical parameters for characterising prostate cancer: a histology validated study

11:34  B-0561  MR-guided biopsy for prostate cancer: the role of DWI at 3 Tesla in the decision making of index lesion
V. Panciatici, F. Hassel1, V. Forte, B. Manenti, G. Simonetti, C. Catalano, Rome/IT

11:42  B-0562  Diffusion parameters (DTI and DWI) are superior to DCE-MRI in differentiation of BPH nodule from prostate cancer: quantitative comparison
M. Peidel6, O. Müller, M. Weigel, T. Haas, M. Pradella, G. Bongartz, Basle/CH

11:50  B-0568  Various factors contribute to graft extrusion in lateral meniscus allograft transplantation: MRI evaluation of 87 knees

11:50  B-0565  Delayed gadolinium enhanced MRI of cartilage of the hip at 7 Tesla
A. Lazz6, J.M. Theysohn, S. Orzada, H.H. Quick, O. Kraft, Essen/DE

11:46  B-0564  Analysis of remodeling processes in patients with avascular necrosis of the femoral head after advanced core decompression using 3T MRI
A. Lazz6, O. Kraft, T. Claßen, S. Landgrabeber, T.C. Lauenstein, J.M. Theysohn, Essen/DE

11:54  B-0566  T2- and T2*-mapping of hip cartilage at 7 Tesla: initial results in healthy volunteers
A. Lazz6, J.M. Theysohn, S. Orzada, H.H. Quick, O. Kraft, Essen/DE

11:10  B-0567  CT-imaging of a hip prosthesis using model-based iterative reconstruction and its influence on metal artefact reduction: a quantitative analysis
R.H.H. Wellenberg1, M.P. Boomendaal1, J.A.C. van Dijk2, A. Vanessenbroek1, J. Milles1, D. Mueller, M. Maas4, 1Zwolle/NL, 2Best/NL, 3Eindhoven/BL, 4Hamburg/DE, 5Amsterdam/NL

11:18  B-0569  Oedema of the cartilage in the lateral facet of the patella: does it predict patellar instability?
A. Falkowski1, C. Camathias1, J.A. Jacobson2, O. Magerkurth3; 1Basle/CH, 2Ann Arbor, MI/US

11:26  B-0570  Characterisation of achilles tendons in familial hypercholesterolemia patients using ultrasound imaging and shear wave elastography: a pilot study
L. Zhang, J. Lin, S. Zhang, Q. Yong, Beijing/CH

11:34  B-0571  Neurogenic myositis ossificans of the hip: correlation between enhanced CT and surgical findings
C. Hennock, R. Carlier, Garches/FR

11:42  B-0572  Navicular bone position determined by weight bearing MRI: interobserver and between day reliability
P. Hansen, S. Hangaard, F.E. Johannsen, S. Stallknecht, M. Henriksen, R. Bouert, J.D. Nybing, B.B. Hansen, Copenhagen/DK

10:30  B-0565  MRI of muscle strains of the thigh in professional soccer players: correlation of imaging findings with the duration of convalescence and presentation at return to play
M. Hegen, C. Behzadi, P.O.O. Henes, G. Adam, P. Catala-Lehnen, Hamburg/DE

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B-0573  Role of the weight-bearing MRI in the evaluation of traumatic and overload pathologies of the midtalar and subtalar joints
S. Mariani, A. La Marra, F. Arrigoni, L.M. Gregori, L. Patriarca, A. Barile, C. Masciocchi; L’Aquila / IT

10:30–12:00 Room MB 1

Head and Neck

SS 608  Oncologic imaging: CT, MRI and PET
Moderators: S. Bisdas, Tubingen/DE, C. Czerny; Vienna/AT

10:30
K-13  Keynote lecture
C. Czerny, Vienna/AT

B-0574  Detection of locoregional tumour recurrence in post treatment head and neck malignancies: a comparative evaluation of dynamic perfusion CT with F-18 FDG PET/CT
N.M. Mulimani, N. Khandelwal, P. Ssingh, V. Gupta, S. Ghoshal, B.R. Mittal; Chandigarh / IN

B-0575  FDG PET/CT and DWI of head and neck squamous cell carcinoma: prognostic value of standardised uptake value and apparent diffusion coefficient
G. Conte, F. Ruju, M. Moscatelli, L. Bonello, L.L. Travani, S. Ramondi, M. Ansarin, L. Preda; Milan / IT

B-0576  Combined PET/CT and DWI by rigid image coregistration increases diagnostic accuracy in head and neck tumours
A. Stecco, M. Perchiazzi, S. Coffi, I. Divenuto, M. Lombard, A. Caniero; Novara / IT

B-0577  Oropharyngeal squamous cell carcinoma: morphological and functional MRI differences between human papilloma virus positive and negative tumours. Preliminary results
S. Sdao, G. Calareso, L. Bonello, H. Kule, E. Orlandi, N.A. Iacovelli, E. Casiraghi, P. Panizza; Milan / IT

B-0578  Evaluation of the feasibility of MRI volumetry in staging of oral carcinoma

B-0579  DWI and T2-W MRI for the evaluation of residual lymph nodes in patients affected by squamous cell carcinoma of the head and neck, treated with chemo-radiotherapy
E. Giacomo, F. Pilidu, V. Manicocci, A. Guerini, R. Covello, S. Marzi, A. Vidin; Rome / IT

B-0580  MDCT and MRI evaluation of mandibular invasion by squamous cell carcinoma of the oral cavity
S. Ansari, Guwahati / IN

10:47
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G. Conte, F. Ruju, M. Moscatelli, L. Bonello, L.L. Travani, S. Ramondi, M. Ansarin, L. Preda; Milan / IT

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11:27
B-0580  MDCT and MRI evaluation of mandibular invasion by squamous cell carcinoma of the oral cavity
S. Ansari, Guwahati / IN

11:35
B-0581  The evaluation of residual bone marrow signal changes in nasopharyngeal carcinoma patients treated with radiation therapy
S. Parici, B. Ozgen Mocan, G. Yacici, A. Dolpın Barak; Ankara / TR

11:43
B-0582  CT scan in preservation protocols of laryngeal carcinomas: choice of response criteria and impact of on disease free survival
J. Valcke; Marseille / FR

11:51
B-0583  Diagnostic confidence for differentiating benign from malignant orbital masses - added value of multiparametric magnetic resonance imaging
P. Asbach, S.-R. Ro, B. Hamm, K. Erb-Eigner; Berlin / DE

10:30–12:00 Room MB 2

Genitourinary

SS 607b  Benign gynaecological pathology
Moderators: J. Arnáiz, Doha/QA, R.N. Lucas, Lisbon/PT

10:30
B-0586  Uterine fibroids treatment selection using MRI: MR-guided high-intensity focused ultrasound (MRgFUS), uterine artery embolisation (UAE) and surgery: a per group analysis of outcomes
F. Ciolina, C. Palla, F. Zaccagna, F. Sandolo, A. Napoli, C. Catalano; Rome / IT

B-0587  Transvaginal sonography vs uro-colon-CT in the diagnosis of deep infiltrating endometriosis of the anterior and posterior compartment
D. Papadopoulou, F. Coppola, D. Valerio, C. Balacchi, L. Zanni, S. Del Forno, R. Seracchioni, R. Gofller; Bologna / IT

B-0589  Role of virtual hysterosalpingography in the diagnosis the causes of infertility
A. Dmitriev, A. Karpenko, E. Bogdanova; St. Petersburg / RU

B-0590  The diagnostic accuracy of multidetector CT in the evaluation of ovarian torsion: compared with mis-read cases
J. Kim1, Y.-M. Ku2, S.-L. Lee2; 1 Seoul / KR, 2 Uijeongbu / KR

B-0591  Diagnostic performance of diffusion-weighted MRI in the diagnosis of ovarian torsion: comparison with conventional MRI and surgical findings
T. Bekci, A.V. Polat, K. Aslan, M. Ceyhan Bilgici, M. Danaci; Samsun / TR

B-0592  Ultrasound guided therapeutic aspiration of simple ovarian cysts with tetracycline sclerotherapy
V. Panari, V. Dutt, S.B. Netam, R. Sarhine, A. Singh, T. Nagaria; Raipur / IN

B-0593  Benign enhancing solid component of mature ovarian teratoma: MR imaging features

B-0594  Clinical utility of pelvic magnetic resonance imaging (MRI) in patients with suspected ectopic pregnancy
Y. Rasool, M. Edris; Seoul / KR, Jeddale/SA
SS 603b  Valvular disease

Moderators: G. Feuchtner, Innsbruck/AT, M. Gardarsdottir, Reykjavik/IS

10:30  K-14  Keynote lecture
F. De Cobelli, Milan/IT

10:39  B-0595  Phase contrast 4D flow in bicuspid aortic valves in a porcine model
M. Grothoff1, C. Etl2, B. Brennessel3, F. Reinhold1, B. Preim1, M. Gutberlet1; 1Leipzig/DE, 2Magdeburg/DE

10:47  B-0596  Intraindividual validation of 4D flow measurement against 2D flow measurements in aortas with bicuspid or tricuspid valves by cardiovascular magnetic resonance (CMR)
A.F. Phanavphand1, P. Beiker2, C. Meierhofer2, P. Ewert2, S. Fratz2, S. Fratz3; 1Cairo/EG, 2Munich/DE

10:55  B-0597  Assessment of the regurgitant orifice area in aortic regurgitation with dual-source CT: comparison with cardiovascular MR
T. Kim1, S. Ko1, J. Park1, J. Shin1, J. Kim2, Seoul/KR

11:03  B-0598  CT planning of aortic valve replacement: evaluation of virtually reconstructed ultra low keV monoenergetic reconstructions based on 3rd generation dual-energy CT
H. Haukenschloss1, M. Meyer2, S.O. Schönberg3, T. Henzler3; 1Munich/DE

11:11  B-0599  Multimodality imaging evaluation before TAVI: incidence of CI-AKI in relation to known risk factors
C. Schneider1, A. Brumberg2, F.C. Roller2, J. Rixe3, P. Roth2, G.A. Krombach2; 1Maastricht/NL, 2Leipzig/DE

11:19  B-0600  Pre-TAVI evaluation: dynamic assessment of circumference-derived diameter and its influence on prostheses selection
J. Turek1, M. Kok2, C. MiH3, B.L.J.H. Kietselaer4, V.V.A. van Ommen2, E.C. Nijssen2, J.E. Wildberger1, M. Das1; 1Maastricht/NL, 2Amsterdam/NL, 3Rotterdam/NL

11:27  B-0601  Valve-in-valve transcatheter implantation work-up: CT can accurately determine the implanted bioprosthesis size
D. Suchá1, C.G. Daans1, P. Symersky2, R.N. Planken2, W.P.T.M. Mali1, L.A. van Herwerden1, R.P.J. Budde3; 1Maastricht/NL, 2Leipzig/DE, 3Amsterdam/NL

11:35  B-0602  Medium-term biventricular heart remodeling after percutaneous and surgical pulmonary valve implantation evaluated with cardiac magnetic resonance
F. Secchi1, P. Pluchinotta1, E. Resta1, P. Cannò2, M. Caminati1, F. Sardanelli1; 1Milan/IT

11:43  B-0603  Assessment of pulmonary insufficiency by cardiac magnetic resonance using regurgitation fraction or absolute value of reverse volume
M. Petrini1, F. Secchi2, F.R. Pluchinotta1, M. Caminati1, M. Chessa1, F. Sardanelli1; 1San Donato Milanese/IT

11:51  B-0604  Percutaneous pulmonary valve implantation (PPVI): four years follow-up by cardiac magnetic resonance
F. Resta1, F. Secchi2, E. Resta3, M. Caminati1, F. Sardanelli1; 1San Donato Milanese/IT

14:00  K-15  Keynote lecture
L. Martí-Bonmatí, Valencia/ES

14:09  B-0605  Semi-automated quantification of abdominal fat in non-alcoholic fatty liver disease: a non-invasive assessment in general population
A. Radmirad1, A. Karimipour1, M. Farnamian1, H. Yoosefi2, A. Hashemikhah2, M. Gerami Senic1, H. Pouzesh1, R. Malekzadeh3, S. Merat3, T. Fehran/IR

14:17  B-0606  Use of dual-energy virtual non-contrast CT for quantitative assessment of hepatic steatosis with dual-source CT scanner: a preliminary study
X. Wang1, S.-t. Wang2, H.-d. Xue3, Z.-Y. Jin4, Beijing/CN

14:25  B-0607  Heritability of abdominal adipose tissue compartments and hepatic lipid accumulation: a classical twin study
Z.D. Drobni1, A.L. Jermendy1, T. Horvath1, A. Bartykowszki1, A.D. Tarnoki1, S. Voros1, B. Merkely2, P. Maurovich-Horvat3, G. Jermendy1, 1Budapest/HU, 2Richmond, VA/US

14:33  B-0608  The role of MR in the diagnosis of non-alcoholic fatty liver disease: correlation with liver biopsy and insulin resistance
C. Ranzi1, R. Picetti1, A. Arves2, F. Barisone1, D. Righi1, P. Forti2, G. Gandini3, Turin/IT

14:41  B-0609  Association between T2, T2* and indicators of hepatic inflammation as an early sign of non-alcoholic fatty liver disease in asymptomatic high-risk subjects
M.N. Bongers1, C. Schabe1, F. Bamberg2, A. Fritsche1, H.-U. Häring3, K. Nikolaou4, F. Schick1, J. Machann1, Tübingen/DE

14:49  B-0610  Grading of steatosis and liver-fibrosis using phase contrast imaging
M. Armbruster1, A. Zupanc1, E. Brun2, A. Braun2, W.H. Sommer2, R. Reimar1, W. Thasler1, M.F. Reiser1, P. Coan2; 1Richmond, VA/US, 2München/DE, 3Grenoble/FR

14:57  B-0611  Diagnostic accuracy of real-time ShearWave elastography for the noninvasive assessment of liver fibrosis
N. Haug1, I. Brecault1, A. Martino1, M. Medici1, E. Chiop1, N. Stumm1, J.-P. Zarski2, A. Moreau-Gaudry1, V. Leroy1, Grenoble/FR

15:05  B-0612  Diagnostic value of Real-Time elastography (RTE) compared to biopsy in the assessment of liver stiffness in patients with chronic viral hepatitis
M. Schwanitz1, D. Ippolito1, F.A. Benaffini1, L.R.G.L. Tale Franzoti1, B. Fior2, S. Sironi2, Monza/IT
Scientific Sessions

15:13
B-0613  Estimation of extracellular volume fraction using routine four-phase liver CT for grading hepatic fibrosis
J.-H. Voss, J. Lee, E. Milde, J. Hart; B. Cho; Seoul/KR, Pforzheim/DE

15:21
B-0614  Assessment of fibrotic tissue and microvascular architecture by in-line phase-contrast imaging in mouse model of liver fibrosis
Y. Fu, W. J. Peng, X. Zhang; Shanghai/CN

14:00–15:30  Room C

Breast

SS 702  Breast: diffusion-weighted MR imaging (DWI)
Moderators: G. Forrai, Budapest/HU, C. Iacconi, Carrara/IT

14:00
B-0615  Is there a systematic bias of apparent diffusion coefficient (ADC) measurements of the breast if measured on different workstations? An inter- and intra-reader agreement study
P. Clausel1, M. Maieron1, M. Marcon1, C. Zanella1, M. Bazzocchi1, P.A.T. Baltzer2, 1Udine/IT, 2Vienna/AU

14:08
B-0616  Diffusion-weighted imaging with background body signal suppression (DWIBS) imaging of breast lesions before and after gadolinium injection
M. Telegrafo, M. Moschetta, A. Stabile Ianora, G. Angelelli; Bari/IT

15:04
B-0623  Unenhanced breast magnetic resonance imaging: detection of breast cancer
A. Bonatesta1, F. Belli2, E. Bufi2, M. Tamino3, C. Buchieri, L. Bonomo; Rome/IT

15:12
B-0624  Breast lesion differentiation by 3-parameter IVIM analysis
H. Dijkstra1, M.D. Dornbus1, M. Weiema, M. Dudkerk, P.E. Sijens; Groningen/NL

15:20
B-0625  Correlation of intravoxel incoherent motion diffusion-weighted imaging with immunohistochemical index in breast ductal carcinoma
L. Fu, Y. Chen, X. Liu, Y. Chen, Y. Xiao; Fujian/CN

14:00–15:30  Room Z

Vascular

SS 715  Arteries and veins
Moderators: A. Capelastegui, Galdakao/ES, L. Maili, London/UK

14:00
B-0626  Overall evaluablety of 80-kV multi-detector CTA of the thoracic aorta using a not-tailored injection protocol with low concentration iso-osmolar iodinated contrast medium
A. D. Ammiri1, A. Formenti1, G. Pontone, S. Muthiaq, M. Petullà, E. Bertellà, E. Nefol1, M. Pergol, D. Andrei2; Milan/IT

14:08
B-0627  CTA of the aorta using 80kVp in combination with iterative reconstruction: evaluation of image quality and dose reduction
J. Ross1, J. Asis2, R.S. Caruthers, P. Heusch, L. Schimmel, B. Antoch, P. Kropi; Utrecht/DE

14:16
B-0628  CT dose reduction using sequential or fast pitch spiral technique employed in CTA of the aorta: results from the CT dose study

14:29
B-0629  Lower limbs low voltage (80kV) CTA: lower radiation dose delivered and less contrast medium with preservation of image quality
M. Bolzan1, C. Cercato, W. Toscano, A. Rossi, M.A. Cova, M. Cazzagon; Trieste/IT

14:32
B-0630  Low-dose runoff CTA in overweight and obese patients: effect of hybrid iterative reconstruction technique on image quality
V. Zhagurov, E.V. Kondratyev, V. Sherkov, P. Davydienko, G.G. Kannazanovskij; Moscow/RU

14:40
B-0631  Location and severity of aortic valve calcium in patients undergoing transcatheter aortic valve implantation
P. Apfaltrer1, T. Henzler1, S. Wolke1, H. Schroefel2, S. Schoenberg1, G. Schymik1, 1Mannheim/DE, 2Karlsruhe/DE
14:00–15:30 Room E1

Musculoskeletal

SS 710 Lower extremity (2)
Moderators: A.M. Ierardi; Varese/IT, M. Reijnierse; Leiden/NL

14:00 B-0637 Quantitative MRI evaluation of subchondral sclerosis at the tibial plateau
J.W. MacKay, P. Murray, B. Kasmai, S. Donell, A.P. Toms; Norwich/UK

14:08 B-0638 Quality validation in posterior cruciate ligament reconstruction: fluoroscopy, radiography and computed tomography
A. Rasmussen, M. Osti, P. Benedetto, M. Dejna, Feldkirchen/AT

14:16 B-0639 Femoral and tibial torsion measurements in children: comparison of MR imaging and 3D models based on low-dose biplanar radiographs
A.B. Rosskopf, L.E. Ramseier, C.W.A. Pfirrmann, F.M. Buck; Zurich/CH

14:24 B-0640 Prevalence of bone marrow oedema and its association with structural damage in patients with femoroacetabular impingement syndrome using MRI
Y. Ragab, Y. Emad, A. Anbar; Cairo/EG

14:32 B-0641 Muscle and tendon damage after total hip arthroplasty: MRI evaluation of different surgical approaches
C.A. Agten, R. Sutter, C. Dora, C.W.A. Pfirrmann; Zurich/CH

14:00–15:30 Room E2

Neuro

SS 711 Brain tumour (2)
Moderators: J.S. Bauer; Munich/DE, P. Due-Tonnessen; Oslo/NO

14:00 B-0648 The diagnostic benefit of T1-DCE MRI for navigated glioma biopsies

14:08 B-0649 Brain tumours: contribution of diffusion MRI, perfusion MRI and spectroscopy in grading primary cerebral gliomas and the differentiation of high-grade gliomas from solitary metastasis
K. Drevelegas, D. Chourmouzi, M. Potsi, A. Moumtzouoglou, A. Drevelegas; Thessaloniki/GR

14:16 B-0650 Comparing gadolinium-based DSC perfusion MRI in malignant brain tumours with and without leakage correction
J. Prola Netto, B. Hamilton, C. Varallyay, E. Neuwelt; Portland, OR/US

14:24 B-0651 Pseudoprogression or true progression in high-grade gliomas post radiation and chemotherapy: incremental value of functional imaging over conventional MRI
D. Dug; S. Arora; New Delhi/IN
14:00
B-0659 Prediction of response of primary tumours to neoadjuvant sunitinib using perfusion (DCE) CT in metastatic renal cell carcinoma (mRCC) patients (PREINSUT trial)
M. Bouaboula, Y. Vano, L. Mauge, H. Pereira, A. Mejean, C.-A. Cuenod, Paris/FR

14:08
B-0660 Diffusion Kurtosis imaging in differentiation of malignancy and proliferative activity of brain gliomas
A.S. Jovanovic, I. Fornin, F. Gronberg, J. Farither, D. Priskeiukas, L. Fadzeeva, E. Pas Talibanjan, A. Potapov, V. Komierko, Moscow/RU, Jantarich/DE

14:16
B-0661 Characterising adrenal 18F-FDG uptake in oncologic patients by dynamic MDCT in combined PET/CT scanner
D. Marrelli, L. Volterrani, Siena/IT

14:24
B-0662 Pretreatment DCE-MRI estimates of extravascular extracellular volume (ve) predict for survival following therapy for muscle invasive bladder transitional cell carcinoma (TCC)
M. Wightman, E. Pogosbekyan, A. Potapov, V. Kornienko, Athens/GR

14:32
B-0663 A MRI scoring system for predicting endometrial vs cervical origin in patients with bulky uterine masses of indeterminate histology
C. Bourgioti, K. Chatoupis, E. Panourgias, C. Tzavara, L. Moulopoulos, Athens/GR

14:40
B-0664 Accuracy of retrospective PET and MRI-DWI (PET/MRI-DWI) image fusion in detection of cervical and endometrial cancer lymph node metastases: comparison with PET/CT and MRI-DWI
F. Buono, A. Sticos, A. Cassola, G. Sacchetti, H. Matheoud, M. Brambilla, A. Aimillo, A. Carrero, Novara/IT

14:48
B-0665 Role of DWI in cervical cancer for prediction and monitoring of chemoradiotherapy response
P. Kaka, V. Bharadav, R. Avantosia, G. Narayan, Bangalore/IN

14:56
B-0666 CT performance for the pre-operative quantification of peritoneal carcinomatosis in ovarian cancer

15:04
B-0667 Accuracy of MDCT in preoperative definition of peritoneal carcinomatosis of bowel loops in patients with advanced ovarian cancer who underwent peritoneectomy and hyperthermic intraperitoneal chemotherapy
S. Sjodahl, M.A. Mazzu, G. Cogliano, N. Cipollini, G. Bettini, F.G. Mazzei, D. Manelli, L. Volterrani, Siena/IT

15:12
B-0668 Agreement in identification of tumour recurrence, peritoneal deposits or distant metastasis in patients treated with ovarian cancer using MRI
A. Francisz-Bajondolui, L. Kliaa, M. Lin, D. Wydra, M. Studnarek, A. Bialek-Bodzak, Gdansk/PL

15:20
B-0669 Prediction of 5-year survival with texture analysis in patients with ovarian cancer
S. Kala, V. Bharadav, R. Avantosia, G. Narayan, Bangalore/IN

14:00–15:30 Room F2

Physics in Radiology

SS 713 Innovations in CT technology
Moderators: P.E. Colombo, Milan/IT, I. Sechopoulos, Atlanta, GA/US

14:00
B-0670 Reconstructing interventional C-arm CT rawdata from non-conventional scan trajectories
P. Kaka, L. Mosch, C. Hirschmann, M. Kraup, M. Rachelleff, Heidelberg/DE, Nurnberg/GE

14:08
B-0671 Imaging blood vessel boundaries in photon counting spectral CT with the nonlinear partial volume effect
M. Persson, B. Bomefalk, F. Gronberg, B. Huber, S. Karlsson, X. Liu, M. Splin, M. Danielsson, Stockholm/SE

14:16
B-0672 Evaluation of a low iodine concentration contrast media in abdominal multiphasic CT using spectral imaging: a prospective study on 210 patients

14:24
B-0674 Does dual energy dual source CT with energy-selective photon counting detectors make sense?
S. Faby, J. Kuntz, L. Ritschl, C. Fleischmann, M. Knaup, M. Kachelrieß, Heidelberg/DE, Ebringan/GE
14:32  B-0675  Empirical dual-energy beam hardening correction in dual-energy CT  
S. Schuler, S. Sawall, M. Lell, M. Kachelrieß; 1 Heidelberg/DE, 2 Erlangen/DE

14:40  B-0676  Dual source dual energy CT for kidney stones: impact of patient motion  
B. Krauss, B. Schmidt, T. Allmendinger, T. Fuchs; Forchheim/DE

14:48  B-0677  A comparison of image quality between fine focal spot and standard focal spot CT of the abdomen and pelvis  

14:56  B-0678  Alpha-image reconstruction: a novel iterative image reconstruction algorithm with well-defined image quality metrics applied to clinical CT data  
S. Libheide, S. Sawall, M. Hauag, M. Kachelrieß; Heidelberg/DE

15:04  B-0679  Iterative model reconstruction and hybrid iterative reconstruction techniques in liver CT for evaluation of hepatocellular carcinoma: comparison of image quality in the detection of hypervascular hepatocellular carcinoma  
H. Park, J. Lee, S. Park, J. Lee, Y.-K. Jeong; Seoul/KR

15:12  B-0680  The influence of the orbital bone density on the eye-lens dose in dental CBCT  
A. Shang, G. Zhang, R. Jacobs, R. Biojens, H. Bosmans; Leuven/BE

14:00–15:30  Room D1

Chest

SS 704  Lung cancer: screening and staging  
Moderators: F. Gleeson, Oxford/UK, T. Henzler, Mannheim/DE

14:00  K-16  Keynote lecture  
P.A. Grenier; Paris/FR

14:09  B-0681  Diagnostic performance of ultra-low-dose computed tomography for detecting asbestos-related pleuropulmonary diseases: prospective study in a screening setting  

14:17  B-0682  Pleural abnormalities in lung cancer screening trial: prevalence, features, and relation with cancer  
M. Shao, N. Sverzellati, D. Colomba, C. La Vecchia, C. Gallerne, A. Marchiand, U. Pottorff, P. Pratono; Milan/IT

14:25  B-0683  Parametric response mapping in lung cancer screening subjects with and without COPD  

14:33  B-0684  Screening for lung cancer using ultra-low dose computed tomography with iterative model reconstruction algorithm  
M. Zhang, Y. Sun, W. Q, Y. Jiang, Y. Liu, N. Hong; Beijing/CN

14:41  B-0685  Comparison of diagnostic capability for N-stage in non-small cell lung cancer patients with DWI using EPI sequence at 3T and FDG-PET/CT  

14:49  B-0686  Multifunctional assessment of NSCLC using whole-body MRI with DWI and 18F-FDG-PET/CT: correlation between ADC and metabolic volumetric and non-volumetric parameters  
L. Calandriello, A. Linci, M. Ciliberto, A. del Cello, L. Leccosotti, A. Giordano, L. Bonomo, Rome/IT

14:57  B-0687  Diagnostic contrast-enhanced perfusion area-detector CT in non-small cell lung cancer patients with chemoradiotherapy: influence of mathematical model to early prediction of recurrence  

15:13  B-0688  Value of computerised 3D shape analysis in differentiating encapsulated from invasive thymomas  
J. Lee, C. Park, J. Bae, S. Lee, J. Lee; Seoul/KR

14:00–15:30  Room D2

Interventional Radiology

SS 709a  TIPS and portal vein intervention  
Moderators: A. Krajina; Hradec Kralove/CZ, A. Massmann; Homburg/DE

14:00  B-0689  Comparison of hepatic venous pressure gradient and endoscopic grading of oesophageal varix  

14:08  B-0690  Towards a turning point in gastric varices treatment: modified balloon-occluded retrograde transvenous obliteration  
M.-Y. Zhang, M. Kim, S. Lee, G. Kim, J. Won, S. Park, D. Lee; Seoul/KR

14:16  B-0691  Fast balloon-occluded retrograde transvenous obliteration using n- butyl cyanoacrylate after foam sclerosants for gastric varices  

14:24  B-0692  Long-term outcome of expandable-polytetraethylene (e-PTFE) covered stents for transjugular intrahepatic portosystemic shunts (TIPS)  
B. Krauss, B. Schmidt, T. Allmendinger, T. Fuchs; Forchheim/DE
Scientific Sessions

14:32  B-0696  Digital subtraction angiography during TIPS creation or revision: data on radiation exposure and image quality obtained using a standard and a low-dose acquisition protocol in a flat-panel detector-based system
M. D'Amico, R. Miraglia, L. Maruzzelli, L. Tafaro, P. Beretta, A. Luca, Palermo/IT

14:40  B-0697  A real-time three-dimensional ultrasound user interface for TIPS: preliminary results

14:48  B-0698  Clinical outcomes of selective variceal coil embolisation during PTFE-covered transjugular intrahepatic portosystemic shunt (TIPS) placement for variceal hemorrhage

14:56  B-0700  Benefit and safety of combined partial splenic artery embolisation to transjugular intrahepatic portosystemic shunt for portal hypertension: a pilot study
A. Lefrani, J. Pucheleut, L. d’Alteroche, M. Sainz Barriga, D. Alison, J.-M. Peranau, Chambay-Lis-Tours/FR

15:04  B-0701  Portal vein embolisation with histoacryl via an ipsilateral approach is safe and effective

14:00–15:30 Room G
Genitourinary

SS 707  New frontiers and contrast agents in GU imaging
Moderators: S. Dudea, Cluj-Napoca/RO, M. Onur, Elazig/TR

14:00  B-0702  Magnetisation transfer MR imaging of normal and abnormal testis: initial experience
A. Telili, A. Nasiroglu, O. Baltogluan, S. Stavrou, V. Malakis, N. Sofikitis, M. Argyropoulou, Ioannina/GR

14:08  B-0703  Added value of multi-parametric ultrasound (mpUS) in magnetic resonance imaging (MRI)/US fusion-guided biopsy of the prostate in patients with suspicion for prostate cancer
P. Fischer, C. Steghen, A. Maxeiner, Berlin/DE

14:16  B-0704  Cognitive target MRI-TRUS fusion biopsies of MRI detected PIRADS 4 and 5 lesions

14:24  B-0705  Computer-assistant histoscanning-targeted prostate biopsies in diagnosis of PCA: a pilot study
A. Podgorov, S. Sannikova, A. Pavlovichev, N. Sokolova, G. Varlamov, A. Zubarev, Moscow/RU

14:32  B-0706  Feasibility of a pneumatically actuated MR-compatible second generation robot for transrectal prostate biopsy guidance by using the PIRADS classification
D. Yakar, J. Bomers, B. Boedijn, J.J. Fütterer, Nijmegen/NL

14:40  B-0707  Angio-uro dynamic functional MRI: difference between this new technique and the traditional investigations in patients with pathology of the urinary tract (work in progress)
A. Vivian, L. Morello, E. Ricci, C. Guerra, Pesca/IT

14:48  B-0708  Reproducibility and agreement in quantification of renal function using 1.5-T DCE-MRI
E. Eike/fjord, E. Andersen, A. Lundervold, E. Hodneland, J. Monssen, E. Hanson, J. Ravnik, Bergen/NO

14:56  B-0709  Arterial spin labeling and T1-mapping allow detection of acute cardiac injury in patients after lung transplantation

15:04  B-0710  Distribution profile of gadolinium (Gd) in gadolinium chelate-treated renally impaired rats: role of pharmaceutical formulation

15:12  B-0711  Nonionic iodinated contrast medium (CM) and risk of nephrotoxicity: results of a prospective study

15:20  B-0712  NSsaFe study: determining the incidence of nephrogenic systemic fibrosis after administration of Dotarem in patients with renal impairment
R.D. McWilliams, Liverpool/UK

14:00–15:30 Room K
Interventional Radiology

SS 709b  Biopsy techniques and solid tumour ablation
Moderators: O. Akhan, Ankara/TR, M. Reiter, Vienna/AT

14:00  B-0713  Clinical application of robotic system for CT-guided biopsy of lung lesions in comparison to the manual technique
A. Brand, M. Arzideh, A. Porfri, M. Bezi, M. Anile, F. Venuta, C. Catalano, Rome/IT

14:08  B-0714  Robot-assisted navigation system for CT-guided percutaneous lung lesions procedures: our experience in Hong Kong
C. Chu, S.C. Yu, Sha Tin/HP

14:16  B-0715  Value of contrast-enhanced ultrasound guided percutaneous biopsy in peripheral pulmonary lesions
Y. Dong, W.-P. Wang, F. Mao, B. Huang, Shanghai/CN
### Head and Neck

#### SS 708
**CT including cone beam CT: image quality, dosimetry and clinical applications**

#### B-0716
**CT-fluoroscopy guidance for lung biopsies performed by clinical fellows without prior training: radiation dose and workflow**
A. Giall, F. Rasajlia, S. Pandey; Toronto, ON/CA

#### B-0717
**Cone-beam CT vs CT in lung ablation procedure: which is faster?**
R. Cazzato, J. Battistuzzi, R. Grassi, X. Buy, J. Palusierri; Rome/IT, Bôrdeaux/FR

#### B-0718
**Percutaneous thermal ablation of breast cancer metastases in oligometastatic patients: local control and disease-free survival**
M. Barili, A. Alperini, A. Haknior, S. Delaloge, V. Cartier, V. Tachier, Y. Dmiejewni, T. de Baere, F. Deschamps; Villejuif/FR, Boulogne Billancourt/FR

#### B-0719
**Pancreatic lesions core biopsy - analysis of efficacy and complications**
M. Studnarek, P. Kwótkiewicz, M. Czarnowska-Cubala, T. Goryczy, P. Szlezak, Gdansk/PL, Bydgoszcz/PL

#### B-0720
**Percutaneous microwave ablation (MWA) of renal tumours: intermediate-term results and usefulness of R.E.N.A.L. scoring for predicting outcomes and complications**
C. Renk, L. Novchi, F. Fontana, A. Ierardi, C. Fugazzola, G. Carrafiello; Varese/IT

#### B-0721
**Retrospective comparison between renal tumours treated with RFA and laparoscopic partial nephrectomy**

#### B-0722
**Radiofrequency ablation of prevertebral sympathetic ganglia in patients with essential arterial hypertension for lowering blood pressure**
G. Knyshov, B. Batsak; Kiev/UA

#### B-0723
**Laser and radiofrequency ablation in the treatment of benign thyroid nodules**
G. Mazz, L. Cova, T. Ieraci, A. Barili, L. Solbiati; Busto Arsizio/IT

#### 14:08
**B-0725**
**Diagnostic performance of cone beam computed tomography and MDCT in diagnostic imaging of the midface: a comparative study on phantoms and cadaver head scans**

#### 14:16
**B-0726**
**Pre- and postoperative head radiography and MSCT imaging in patients with zygomatico-orbital trauma**
O.Y. Pavlova, N.S. Serova; Moscow/RU

#### 14:24
**B-0727**
**Clinical aspects of imaging quality in visualisation of anterior and lateral skull base**
C. Guidi; J. Voigt, J. Lehnert, T. Gorycki; Marburg/DE

#### 14:32
**B-0728**
**Reducing the dose of CT of paranasal sinuses: possibilities using an iterative reconstruction algorithm**
S. M. Nathans, L.-A. Schaafs, B. Hamm; Berlin/DE

#### 14:40
**B-0729**
**80-kVp neck computed tomography in patients with suspected peritonsillar abscesses: evaluation of objective and subjective image quality, and reduction of radiation exposure**
J.-E. Scholtz, P. Busch, M.H. Albrecht, M. Beeres, M. Kaup, B. Schulz, R.W. Bauer, T.J. Voigt, J.L. Wichmann; Frankfurt a Main/DE

#### 14:48
**B-0730**
**Assessment of an advanced monoenergetic reconstruction technique in dual-energy computed tomography of head and neck cancer**
M.H. Albrecht, J.-E. Scholtz, M. Beeres, M. Kaup, B. Schulz, R.W. Bauer, T.J. Voigt, J.L. Wichmann; Frankfurt a Main/DE

#### 14:56
**B-0731**
**Non-linear image blending for dual energy CT improves visualisation of head and neck primary squamous cell carcinoma compared to linear blending technique**
J.-E. Scholtz, P. Busch, M. Kaup, M. Albrecht, C. Frellesen, R.W. Bauer, J.M. Kerl, T.J. Voigt, J.L. Wichmann; Frankfurt a Main/DE

#### 15:04
**B-0732**
**Direct and indirect organ dose distribution measurements in fluoroscopic swallow examinations with a modern flat detector system and dose reduction techniques - a phantom study**
A. Pomschar, J. Weiß, K. Neumaier, M. Li, W. Flatz, B. Ertl-Wagner; T.J. Vogl, J.L. Wichmann; Frankfurt a Main/DE

#### 15:12
**B-0733**
**Quantitative analyses of 3-D volumetry and histogram of thyroid gland on CT: can thyroid CT reflect thyroid function in the patients with hypothyroidism?**
K. Lee, J. Ryu; Busan/KR

#### 15:20
**B-0734**
**Comparison of incidental findings between normal and obstructive sleep apnea patients using cone beam computed tomography scans**
SS 701b  Colonic imaging

Moderators: P. Lefere, Roeselaere/BE, T. Manq, Vienna/AT

14:00
B-0735  Selection of colon cancer patients for neoadjuvant chemotherapy based on optimised preoperative MDCT A prospective multi-observer radiologic-pathologic agreement study
F. Ronsard, A. Germano, A. Costa, R. Theis, A. Gomes, C. Leichsenring, I. Santiago, Amadora/PT

14:08
B-0736  Computer tomography colonography participation and yield in patients under surveillance for 6-9 mm polyps in a population-based screening trial
C.J. Tenen Nolthenius1, T.N. Boellaard1, Y. Nio1, M.G. Thomeer2, M. de Haan1, S. Gipot1, A. Montauban van Swijndregt1, J. Stoker1, Amsterdam/NL, Rotterdam/AM, Amsterdam/AT

14:16
B-0737  Diagnostic value of computed tomography for staging colon cancer: a meta-analysis

14:24
B-0738  Impact of virtual colonoscopy in the management of patients referred to a tertiary hospital after an incomplete colonoscopy
R. Ferrara, L. Bertani, D. Belfer2, T. Biondi2, D. Caruso2, A. Laghi2, Rome/IT

14:32
B-0739  Virtual colonoscopy under 2 mSv with iterative reconstruction - are we ready?
R. Ferrara, L. Bertani, T. Biondi, D. Sellin, D. Caruso, A. Laghi, Rome/IT

14:40
B-0740  Does model-based iterative reconstruction technique provide advantage in ultra-low dose submilisievert CT colonography?
L. Lambrechts1, J. Danes1, L. Simakov1, J. Jahoda1, P. Ourednicek2, Prague/CZ, Brno/CZ

14:48
B-0741  Accuracy of ultra-low-dose CTC with iterative reconstructions in the detection of intermediate and diminutive polyps
F. Pancrazi, P. Scalise, A. Mantarro, E. Guidi, D. Gambaccini, M. Bertini, E. Neri, F. Bartolozzi, Pisa/IT

14:56
B-0742  Image quality assessment of ultra-low-dose CT colonography using sinogram-confirmed iterative reconstruction
A. Del Pizzo1, R. Giancane1, A. Filippone1, M. Timpani1, A. Tavolletta2, G. Esposito2, P. Pulsoni2, A.R. Cotroneo2, Chiavi/IT

15:04
B-0743  Anatomic variability of the colon: a study with CT-colonography
M. Pancot1, R. Girometti1, C. Zuanii1, M. Bazzacchi1, Udine/IT

15:12
B-0744  Treatment of perityphlitic abscess: comparison of interventional and surgical management
B. Meeusaert1, J.L. Partecke1, J.-P. Kuhn1, W. Keßler1, M. Patrzyk1, Greifswald/DE

SS 703  Work-up of coronary artery disease

Moderators: M. Das, Maastricht/NL, S. Mirsadraee, Edinburgh/UK

14:00
B-0746  Characterisation of human coronary atherosclerotic plaques with phase-contrast imaging
S. Winkelhoffer1, S. Peter2, V. Tschialer3, F. Mordini4, P. Modregger1, M. Stampannini1, M. Thali1, H. Alkadhi1, P. Stoeckli1, Zurich/CH, Wilten/CH

14:08
B-0747  Double acquisition of CCTA with and without intravenous vasodilator injection for the diagnosis of vasospastic angina: pilot study
E.-J. Kang1, T.-N. Lee1, H.-J. Lee1, H. Kwon1, M. Kim1, Busan/KR

14:16
B-0748  Diagnostic yield and accuracy of coronary CT angiography after abnormal nuclear myocardial perfusion imaging

14:24
B-0749  Comparison fractional flow reserve (FFR), instantaneous wave-free ratio (iFR) and quantitative assessment SPECT-CT in evaluation of intermediate stenosis
V. Solomyanyy1, Moscow/RU

14:32
B-0750  Impact of coronary CTA use for acute chest pain patients on overall ED performance: system dynamics model analysis
A. Goehler1, S. Huber1, F. Nauck1, J. Naquen1, G. Gazelle2, U. Hoffmann2, H. Wong3, New Haven, CT/US, Boston/MA/US, Toronto, ON/CA

14:40
B-0751  ED triage strategies for acute chest pain - longterm clinical and economic outcomes: going beyond the ROMICAT II trial
A. Goehler1, T. Mayrhofer2, A. Pursani3, H. Lumisch1, J. Naquen1, Q. Truong4, M. Kim1, New Haven, CT/US, Boston, MA/US, Ottawa, BC/CA

14:48
B-0752  Evaluation of diagnostic value of a novel non-invasive coronary computed tomography angiography algorithm versus standard coronary angiography for assessing fractional flow reserve
S. Manolidi1, M. Renker1, S. Baumann1, R. Wang1, F.G. Meinel1, J.L. Wichmann2, R.R. Bayer1, D.H. Steinberg2, U.J. Schoepf2, Charleston, SC/US

14:56
B-0753  The effect of coronary calcium deposits and CT acquisition artifacts on coronary CT angiography derived fractional flow reserve, validated by invasive FFR
A. Coenen1, M.M. Lubbers1, A. Kurata1, A. Kono1, A. Gedik1, R.G. Chelu1, Amsterdam/AM, Eindhoven/NL
15:04
**B-0754**  Dynamic first pass CT perfusion imaging of the myocardium vs. intracoronary transluminal attenuation gradient in coronary CT angiography for the assessment of coronary artery stenosis
B.M. Gramer1, I. Baur1, M. Rasper1, V. Leber1, A. Leber1, M. Vembar1, E.J. Rummeny1, A.M. Huber1; 1Munich/DE, 2Cleveland, OH/US

15:12
**B-0755**  Incremental diagnostic value of functional CT for the assessment of hemodynamically significant coronary artery disease: a meta-analysis
R.A.P. Takx1, T. Leiner2, U. Hoffmann1; 1Boston, MA/US, 2Utrecht/NL

15:20
**B-0756**  Regadenoson-stress dynamic myocardial perfusion with computed tomography - diagnostic performance and contribution in patients prior major vascular surgery
J. Baxa, J. Ferda, M. Hromadka, J. Sedivy, T. Matouskova, B. Kreuzberg; Pilsen/CZ
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<th>Time</th>
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<tr>
<td>10:30–12:00</td>
<td>Room C</td>
<td>Breast MRI indications and MR-guided biopsy</td>
<td>Moderators: G. Essen, Istanbul/TR, S. Schrading, Aachen/DE</td>
</tr>
<tr>
<td>10:46</td>
<td>B-0759</td>
<td>MRI for diagnosis of malignancy in mammographic microcalcifications: a systematic review and meta-analysis</td>
<td>B. Beninani-Bart, P.A.T. Baltzer, Vienna/AT</td>
</tr>
<tr>
<td>10:54</td>
<td>B-0760</td>
<td>Breast MRI adds high negative predictive value in a large cohort of patients with microcalcifications</td>
<td>BI-RADS 3 to 5</td>
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<tr>
<td>11:26</td>
<td>B-0764</td>
<td>Diagnostic accuracy of breast MRI in the evaluation of patients with suspicious nipple discharge</td>
<td>V. Casali, M. Telesca, M. Luciani, S. Liberali, F. Pediconi, E. Moljo, R. Di Micco, Rome/IT</td>
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<td>11:54</td>
<td>B-0767</td>
<td>Breast MRI adds high negative predictive value in a large cohort of patients with microcalcifications</td>
<td>BI-RADS 3 to 5</td>
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<td>11:10</td>
<td>B-0769</td>
<td>Factors influencing contrast bolus geometry during dynamic CTA: in-vitro evaluation using a pulsatile flow model and in-vivo application</td>
<td>J. Lee, J. Ricour, Paris/GF, FR</td>
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<td>11:42</td>
<td>B-0776</td>
<td>Low-dose 256-MDCT coronary angiography: effect of hybrid iterative reconstruction technique on image quality and diagnostic accuracy in comparison with DSA</td>
<td>E.V. Kondratyev, V. Shirokov, P. Davydenko, G.G. Karmazanovsky, Moscow/RU</td>
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**Vascular**

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<tr>
<td>10:30–12:00</td>
<td>Room Z</td>
<td>Low dose and low contrast in vascular imaging</td>
<td>Moderators: K. Nikolaiou, Tubingen/DE, G. Tsoumakidou, Strasbourg/FR</td>
</tr>
<tr>
<td>11:26</td>
<td>B-0776</td>
<td>Low-dose 256-MDCT coronary angiography: effect of hybrid iterative reconstruction technique on image quality and diagnostic accuracy in comparison with DSA</td>
<td>E.V. Kondratyev, V. Shirokov, P. Davydenko, G.G. Karmazanovsky, Moscow/RU</td>
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<td>10:00</td>
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<td><strong>Physics in Radiology</strong></td>
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<td>10:30</td>
<td>B-0780</td>
<td>Diagnostic ultra-low dose CT with a novel ultrafast compressed sensing algorithm</td>
<td>S. Herreman, A. Nannenbock, S. Homannpour, N. S. Paul, Toronto, ON/C4</td>
</tr>
<tr>
<td>10:03</td>
<td>B-0781</td>
<td>Size-specific dose estimate can be used to calculate patient-specific blood dose from paediatric CT examinations</td>
<td>C. Frank, C. Vandervoort, P. Smeets, R. Achten, K. Verstraete, H. Thierens, K. Bach, Ghent/BE</td>
</tr>
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<td>10:11</td>
<td>B-0782</td>
<td>Assessment of high cumulative patient doses of repetitive CT examinations</td>
<td>M. Poe, C.R.L.P. Jeunkins, R.S. Schner, S. Niesen, J.E. Wildberger, Maastricht/NL</td>
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<tr>
<td>10:19</td>
<td>B-0783</td>
<td>Data distributions and the impact of iterative reconstruction algorithms from the first three years of the Australian MDCT DRL project (2011-2014)</td>
<td>A.B. Wallace, P. Thomas, A. Hayton, Fallschurch/AD</td>
</tr>
<tr>
<td>10:27</td>
<td>B-0784</td>
<td>Patient doses in standard CT examinations: results of a nationwide survey in Germany</td>
<td>A.A. Scheperreer, H-D. Nagel, G. Stamn, G. Box, Neuherberg/DE, Buchholz/BE, Hannover/DE</td>
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<td>10:43</td>
<td>B-0786</td>
<td>How much is the effective dose varying between follow-up examinations performed on the same CT scanner, when using the same imaging protocol?</td>
<td>S. Smitkalin, F.P. Stecker, N. Gubella, M. Finkelon, J.M. Theykooth, A. Ringelstein, T. Schlosser, K. Nassenstein, Essen/DE</td>
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<td>11:00</td>
<td>N</td>
<td><strong>Cardiac</strong></td>
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<tr>
<td>11:30</td>
<td>B-0789</td>
<td>The pattern of myocardial perfusion in patients with intermediate and significant coronary artery stenosis</td>
<td>H.W. Zawadowska-MG. Grally, Y.B. Leshnikov, L.N. Mastor, V.Y. Saadnik, Tomsk/RU</td>
</tr>
<tr>
<td>11:46</td>
<td>B-0791</td>
<td>Four-dimensional whole-heart computed tomography perfusion of the myocardium with visual analysis using temporal averaging of three-dimensional datasets: feasibility study</td>
<td>G. Renschenhofer, A. Shaban, P.D. Bady, S. Feger, M. Dewey, Berlin/DE</td>
</tr>
<tr>
<td>11:26</td>
<td>B-0796</td>
<td>Quantitative myocardial perfusion with dual-energy CT: iodine concentration differences between normal and ischemic myocardium</td>
<td>H. Sia Pom, C. Delgado, C. Trinadad, D. Mena, A. Bustos, M. Vazquez, Vigo/ES</td>
</tr>
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### Scientific Sessions

#### Musculoskeletal

**SS 1010a  Tumours, systemic diseases and muscles**  
Moderators: M.C. de Jonge, Amsterdam/NL, A. Yakimov, Moscow/RU

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<th>Time</th>
<th>Poster</th>
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<th>Authors</th>
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<tbody>
<tr>
<td>10:30</td>
<td>B-0800</td>
<td>Routinely performed multiparametric MRI helps to differentiate subtypes of myxoid tumours</td>
<td>M. Albert, X. Buy, M. Kind</td>
<td>Bordeaux/FR</td>
</tr>
<tr>
<td>10:38</td>
<td>B-0801</td>
<td>Whole-body screening of mastocytosis: intraindividual comparison of whole-body MRI vs bone scintigraphy</td>
<td>M.M. Heng, A. Buesing, A. Reiter, S.O. Schoenberg, S. Haneder</td>
<td>Mannheim/DE</td>
</tr>
<tr>
<td>10:54</td>
<td>B-0803</td>
<td>Myxoid soft tissue tumours: are MRI signs reliable? A 95-case retrospective study</td>
<td>N. Alberti, X. Buy, M. Kind</td>
<td>Bordeaux/FR</td>
</tr>
<tr>
<td>11:02</td>
<td>B-0804</td>
<td>Functional MRI (DW-MRI) in the characterisation of Ewing sarcoma: its role in characterising bone marrow and soft tissue involvement and tumour necrosis</td>
<td>S.L. Luvadkar, S.M. Desai, A. Gulia</td>
<td>Mumbai/IN</td>
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#### Neuro

**SS 1011  Ischaemic stroke (1)**  
Moderators: E. Avdagic, Sarajevo/BA, A. Bonafie, Montpellier/FR

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<th>Time</th>
<th>Poster</th>
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<tr>
<td>10:30</td>
<td>B-0810</td>
<td>Can DWI-FLAIR mismatch pattern on MRI be replaced by b1000-b0 mismatch for the prediction of time from symptom onset in acute ischemic stroke?</td>
<td>A. Gerold, L. Bem, J. Haesebaert, T. Cho, A. Chabrol, T. Ritzenhauer, N. Nighoghossian, Y. Berthèzene</td>
<td>Lyon/FR</td>
</tr>
<tr>
<td>10:38</td>
<td>B-0811</td>
<td>CT angiography and CT perfusion for outcome prediction in patients with suspected acute ischemic stroke</td>
<td>T. van Steeters, B.K. Velthuis</td>
<td>Utrecht/NL</td>
</tr>
<tr>
<td>11:10</td>
<td>B-0815</td>
<td>Arterial spin labelling in identifying tissue salvage: is the technique a useful predictor of good recovery after acute ischaemic stroke?</td>
<td>F. Bozzetti, S. Piccinini, G. Crisi, Parma/IT</td>
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<tr>
<td>11:34</td>
<td>B-0818</td>
<td>Multiparametric MRI at 7 T for the non-invasive assessment of acute ischemic and non-ischemic muscle damage</td>
<td>A. Palmari, A. Esposti, T. Canu, F. Lo Russo, F. De Cobelli, A. Del Maschio</td>
<td>Milan/IT</td>
</tr>
<tr>
<td>11:42</td>
<td>B-0819</td>
<td>Myxoid soft tissue tumours: are MRI signs reliable? A 95-case retrospective study</td>
<td>N. Alberti, X. Buy, M. Kind</td>
<td>Bordeaux/FR</td>
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<tr>
<td>11:50</td>
<td>B-0820</td>
<td>Multiparametric MRI helps to differentiate subtypes of myxoid tumours</td>
<td>M. Albert, X. Buy, M. Kind</td>
<td>Bordeaux/FR</td>
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<tr>
<td>11:58</td>
<td>B-0821</td>
<td>Whole-body screening of mastocytosis: intraindividual comparison of whole-body MRI vs bone scintigraphy</td>
<td>M.M. Heng, A. Buesing, A. Reiter, S.O. Schoenberg, S. Haneder</td>
<td>Mannheim/DE</td>
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<td>11:35</td>
<td>B-0829</td>
<td>Dynamic contrast-enhanced magnetic resonance imaging in benign and malignant sclerotic bone lesions</td>
<td>P. Menotti, S. Sulejman, H. Kavecji, A. Karacin, A. Kupeli, Trabzon/TR</td>
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<td>10:30–12:00</td>
<td>Room F1</td>
<td>Oncologic Imaging</td>
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<tr>
<td>10:30</td>
<td>K-18</td>
<td>Keynote lecture</td>
<td>M. Muller-Schimpfle, Frankfurt a. Main/DE</td>
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<tr>
<td>10:55</td>
<td>B-0824</td>
<td>Volumetric dynamic contrast enhanced computed tomography (DCE-CT) for preoperative assessment of the vascularity of spinal metastases</td>
<td>C. Lauridsen, C. Clausen, M. Lundsgaard, B. Dahl, M. Bachman, S. Frevert, L. Lorrin, Copenhagen/DK, Herlev/DK</td>
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<tr>
<td>11:03</td>
<td>B-0825</td>
<td>Superb microvascular imaging (SMI): applying a new contrast-free ultrasound technique for the analysis of the microvascular structure in suspect lymph nodes</td>
<td>T. Diekhoff, T. Fischer, Berlin/DE</td>
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<td>10:30–12:00</td>
<td>Room F2</td>
<td>GI Tract</td>
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<td>10:30</td>
<td>K-19</td>
<td>Keynote lecture</td>
<td>L. Blomqvist, Stockholm/SE</td>
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<td>Session Time</td>
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<td>11:03</td>
<td>B-0835</td>
<td>Added value of diffusion-weighted MRI for early detection of tumour response to preoperative chemoradiation therapy, in locally advanced rectal cancer: correlation with histopathologic analysis</td>
<td>M. Munnali, D. Ippolito, L. Tavone Fraceri, D. Minutolo, P.A. Bonaffini, S. Sironi; Monza/IT</td>
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<td>11:11</td>
<td>B-0836</td>
<td>Reproducibility of evaluation of invasion depth of rectal cancer into the mesorectal fat: can we reliably discern T3ab from T3cd tumours?</td>
<td>M. Maas1, G.L. Beets1, M. Ageitos Casais2, X. Li3, S.-X. Rao4, M.M. van Heeswijk1, R. Beckers1, R.G.H. Beets-Tan1; 1Maastricht / NL, 2Santiago de Compostela / ES, 3Beijing / CN, 4Shanghai / CN</td>
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<td>11:19</td>
<td>B-0837</td>
<td>DWI for assessment of rectal cancer nodes after chemoradiotherapy: does the absence of nodes on DWI predict a ypN0 status?</td>
<td>M.M. van Heeswijk, D.M. Lambregts, W.M. Palm, B.M.F. Hendriks, G.L. Beets, R.G.H. Beets-Tan; Maastricht / NL</td>
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<td>11:27</td>
<td>B-0838</td>
<td>Comparison between MRI and water soluble contrast enema in evaluating complications after colorectal anastomosis and protective ileostomy in patient with rectal cancer</td>
<td>E. Raimondi, M. Bassi, V. Pollastri, R. Rizzati, M. Giganti, G. Benea; Ferrara / IT</td>
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<tr>
<td>11:35</td>
<td>B-0839</td>
<td>Primary cystic lesions of the retrorectal space: MRI evaluation, histopathology confirmation and clinical assessment</td>
<td>R.S. Dwarkasing, S. Verschuuren, G. van Leenders, L. Braun, W. Schouten, G. Krestin; Rotterdam / NL</td>
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<tr>
<td>11:51</td>
<td>B-0841</td>
<td>Local staging of rectal cancer: performance comparison between 3D transrectal ultrasound and 3-Tesla magnetic resonance imaging</td>
<td>E. Guidi1, L. Faegion1, R. Scadello1, R. Balestri1, G. D’ippolito1, E. Neri1, P. Buccianti1, C. Bartolozzi1, PISA/IT, ’Sao Paolo’/BR</td>
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10:30–12:00 Room D1

Chest

SS 1004 Pulmonary hypertension and thromboembolic disease

<table>
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<tr>
<td>10:30</td>
<td>B-0842</td>
<td>Are we overcalling pulmonary embolism and why? Discordance in interpretation of CTPA between general and chest radiologists</td>
<td>B. Hutchinson1, P. Niven1, E. Maroni2, M. Truong2, J. Bruize1; 1Galway / IE, 2Houston, TX / US</td>
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<tr>
<td>10:38</td>
<td>B-0844</td>
<td>Pulmonary infarction in CT pulmonary angiography: correlation with thrombus distribution and signs of right heart strain for risk stratification</td>
<td>L.P.M. Boersen1, C.M. Schaefler-Prokop1, J. Stoker1, P. Gerits, H.R. Buller, S. Modderman, Amsterdam / NL</td>
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<tr>
<td>10:46</td>
<td>B-0845</td>
<td>Does accuracy of MSCT signs of right ventricular dysfunction depend on the time since the onset of symptoms in patients with acute pulmonary embolism?</td>
<td>G. Stucki1, E. Czekajska-Chehab1, S. Uhl1, E. Siek1, A. Tomaszewski1, J. Przegalinski1, A. Droz, Lublin / PL</td>
</tr>
<tr>
<td>10:54</td>
<td>B-0846</td>
<td>Can coronary artery calcifications on CT pulmonary angiography predict right heart strain?</td>
<td>M.C. Williams1, N. Moloney1, R. Munt1, E.R. van Beek1, J.H. Red1, J. Murchison1; Edinburgh / UK, Moloss / UK</td>
</tr>
<tr>
<td>11:02</td>
<td>B-0847</td>
<td>Dual-energy CT pulmonary perfusion maps improve the detection of small pulmonary embolism: a multi-rater study</td>
<td>S. Fischer1, N. Schultheiss1, C. Frei1, M. Kaps1, W. Kromen1, P. Dewes1, J.E. Scholtz1, T. Voig1, R.W. Bayer1, Frankfurt / DE</td>
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<tr>
<td>11:10</td>
<td>B-0848</td>
<td>Evaluation of multi-phase post-mortem CT-angiography for the investigation of pulmonary embolism</td>
<td>A. Piem1, J. Groom1, C. Egger1, C. Bruquier1, E. Silvaggi1, S. Grabher1; 1Modena / IT, 2Lausanne / CH</td>
</tr>
<tr>
<td>11:18</td>
<td>B-0849</td>
<td>A nomogram based on CT pulmonary angiography for prediction of pulmonary hypertension in patients without pulmonary embolism</td>
<td>A. Bendet1, M. Giannotta1, S.Z. Adam1, T. Ziv-Baran1, S. Berlinski1, Y. Topolsky1, G. Averam1, Tel Aviv / IL</td>
</tr>
<tr>
<td>11:26</td>
<td>B-0850</td>
<td>Angio-CT in the evaluation of patients with chronic thromboembolic pulmonary hypertension undergoing pulmonary endarterectomy: radiological and hemodynamic assessment</td>
<td>S. Porelli1, M. Giannotta1, M.B. Leone1, M. Defarelli1, S. Martin Suarez1, N. Galié1, M. Zompatori1, Bologna / IT</td>
</tr>
<tr>
<td>11:34</td>
<td>B-0851</td>
<td>Comparison of diagnostic performance of pulmonary MRA and CTA in patients with chronic thromboembolic pulmonary hypertension</td>
<td>E.A. Mershina1, V. Sinitsyn1, M. Komarova1, K. Mershin1, N. Danilov1, Moscow / RU</td>
</tr>
<tr>
<td>11:42</td>
<td>B-0852</td>
<td>Lung perfusion characteristics in pulmonary arterial hypertension and peripheral forms of chronic thromboembolic pulmonary hypertension: dual-energy CT</td>
<td>J. Giordano1, N. Tacelli1, C. Hossein-Foucher1, A. Duhamel1, J. Reiny1, M. Remy-Jardin1, Lille / FR</td>
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</table>
Interventional Radiology

**SS 1009**  Percutaneous ablation in liver tumours

**SS 1014**  Radiation dose optimisation

**10:30**  Room D2

**B-0860**  Local ablation of unresectable liver malignancies

1. Using CT-guided high-dose rate brachytherapy or CT-guided radiofrequency ablation: a cost comparison
   - D. Schnapf1, F. Colletlin, B. Gebauer1, B. Hamm1, M.H. Maurer1, Berlin/DE

2. Is iterative reconstruction for CT worth the investment? A retrospective study of dose reduction and image quality
   - L.V. Mayne1, P. Bait, Dundonald/UK

3. Is iterative reconstruction for CT worth the investment? A retrospective study of dose reduction and image quality
   - L.V. Mayne1, P. Bait, Dundonald/UK

**11:43**  Room K

**B-0861**  Assessment of various types of US findings after irreversible electroprotection in porcine liver: comparison with radiofrequency ablation

- K. Sugimoto, Y. Kobayashi, F. Moriyasu, Tokyo/JP

**B-0862**  Ablation of colorectal liver metastases by irreversible electroprotection: results of the COLDFIRE-I ablate-and-resect study

SS 1008 Thyroid and parathyroid imaging

**Head and Neck**

**B-0874** Role of quantitative diffusion-weighted MRI and 1H MR spectroscopy in distinguishing between benign and malignant thyroid nodules
R.A. Ebrahimi, A. Elstaf, M. Melees, N. Esheba, Tanta/EG

**B-0875** The role of magnetic resonance spectroscopy as a pre-surgical diagnostic modality in thyroid nodules
L. Aghahavu, P. Pirouzi, H. Shanfiani, N. Yazdani, S. Koorka, A. Ghadin, Tehran/IR

**B-0876** Comparison between two thyroid ultrasound classification systems for characterisation of thyroid nodules
R.A. Atharnallah, M.A. Al-Adalany, Mansoura/EG

**B-0877** Role of ARFI in risk stratification of thyroid nodules by TIRADS
B. Raghavan, D. Sundaram, Chennai/IN

**B-0878** Preoperative ultrasound of papillary thyroid carcinoma (PTC): evaluation of predictive factors for extrathyroidal extension

**B-0879** Comparison of clinical and sonographic characteristics for distinguishing follicular adenoma from carcinoma and the predictive factors of malignancy in thyroid follicular neoplasm

**B-0880** Evaluation of underlying lymphocytic thyroiditis with histogram analysis using gray scale ultrasound images
J. Seo, D. Kim, E.-W. Kim, J. Heo, Seoul/KR

**B-0881** Can ARFI elastography be used to differentiate parathyroid from thyroid lesions?
A. Chandranosha, D. Abraham, M.T. Manepadam, T.V. Paul, Vellore/IN

**B-0883** MR appearance of parathyroid adenomas at 3T in patients with primary hyperparathyroidism: the value of imaging for pre-operative localisation
A. Anrari, B. Sacconi, R. Argiro, L. Ciprani, S. Minisola, C. Catalano, M. Bezzi, D. Diacinti, Rome/IT

**Paediatric**

**SS 1012** Abdominal imaging

**B-0884** The role of MR in the preoperative management of primary hyperparathyroidism in clinical practice: single-center experience with a 3T MR
B. Sacconi, R. Argiro, A. Anrari, L. Ciprani, S. Minisola, C. Catalano, M. Bezzi, D. Diacinti, Rome/IT

**B-0885** Re-appraising ultrasonography as the first line diagnostic modality in surgical causes of paediatric acute abdomen
R. Anand, M. Narula, S. Choudhury, New Delhi/IN

**B-0886** Comparison of axial T2-weighted BLADE and respiratory triggering turbo spin-echo sequences in the paediatric abdomen

**B-0887** Fibrosing liver diseases in paediatric age: MRI investigation by diagnostic maps of slow diffusion and fast diffusion generated from a multiple b values DWI sequence through IVIM model
P. Bulino, A. Ciccaroni, D. Cozzi, D. Salpietro, C. Dellipani, Florence/IT

**B-0888** Quantification of liver steatosis in paediatric population: comparison of ¹H MRS and Triple-echo GRE sequence with liver biopsy as reference standard
M. D. Martino, L. Pacioto, M. Bezzi, P. Zaccagnia, B. Sacconi, C. Chiesa, C. Catalano, Rome/IT

**B-0889** Imaging approach in infantile cholestasis evaluation: utility and efficacy of US signs in biliary atresia
L. Mond, M. Sallustio, G. Sogna, M. Costella Bisogni, A. Simonetti, G. Torre, P. Rossi, L. Bonomo, P. Tomà, Rome/IT

**B-0890** Impact of hepatic arterial haemodynamics in predicting early hepatic arterial thrombosis in paediatric recipients after living donor liver transplantation
L. Gu, H. Fang, F. Li, S. Zhang, C. Shen, L. Han, Shanghai/CN

**B-0891** The role of magnetic resonance enterography in the evaluation of activity of paediatric Crohn’s disease
I. Goel, R. Anand, M. Narula, S. Choudhury, New Delhi/IN

**B-0892** Radiation reduction in the follow-up of abdominal trauma imaging using contrast-enhanced ultrasound
A.-M. Deganello, A. Iannarelli, B. Sacconi, R. Argiro, L. Ciprani, S. Minisola, C. Catalano, M. Bezzi, D. Diacinti, Rome/IT

**B-0893** High-resolution MRI for preoperative workup of neonates with an anorectal malformation: a direct comparison with rectofistulography using surgical findings as reference standard
M.G. Thomeer, M. Lequin, N. De Graaf, M. Meradji, I. De Blauwe, C. Sloots, Rotterdam/NL
Cardiac

SS 1003b Non-ischaemic myocardial disease
Moderators: I. Carbone, Rome/IT, S.D. Rud, St. Petersburg/RU

10:30
B-0896 Late gadolinium enhancement in MRI for cardiomypathies: a quantitative comparison of 2D and 3D acquisition
F. Mombacci, S. Gondo, M. Niemann, H. Akadhi, R. Gueiti, R. Marika, Zurich/CH

10:38
B-0897 Prognostic value of late enhancement in cardiac magnetic resonance in patients with dilated cardiomypathy: systematic review and meta-analysis
F. Secchi, E. Resta, P. Cannoli, M. Petrini, G. De Leo, F. Sardenelli, Milan/IT

10:46
B-0898 Extent of myocardial fibrosis by LGE, pre- and post-contrast T1 and ECV in patients with hypertrophic cardiomypathy referenced to normal appearing myocardium or healthy volunteers

10:54
B-0899 Prognostic CMR parameters for heart failure and arrhythmias in large cohort of well treated thalassemia major patients
C. Tudisco, A. Meloni, E. Grassedonio, M. Restaino, F. Terrazzino, C. Tudisco, A. Meloni, M. Restaino, F. Terrazzino, Catania/IT

11:02
B-0900 Isolated left ventricular non-compaction (LVNC) in patients with b-thalassemia: 41 months follow-up with cardiac magnetic resonance
M. Sarto, R. Faietti, A. Vetrin, A. Raja, F. Lonigo, G. Gandini, R. Bonamini, Turin/IT

11:10
B-0901 Isolated non-compaction of the left ventricle: correlation between clinical and genetic manifestations of the disease and cardiac MR parameters
E.A. Merzhina, D. Lening, V. Sinitsyn, R. Myasnikov, M. Kharlap, O. Kulikova, S. Boytsov, Moscow/RU

11:18
B-0902 Semiquantitative assessment of low and high b value DWI for detecting myocardial edema in acute myocarditis
J. Broggi, A. Luna, T. Martin-Noaquerou, J. Sanchez-Gonzalez, 1/Cordoba/ES, J. Garijo, 1/Albacete/ES

11:26
B-0903 Cardiac diffusion-weighted MR imaging in acute myocarditis: initial experience
J.-P. Laissy, V. Gaxotte, A. Benshissi, J.-M. Sorlat, Paris/FR

11:34
B-0904 Prognostic value of different cardiac magnetic resonance (CMR) patterns in patients with acute myocarditis
M. Cava, G. Benedetti, D. Palumbo, G. Fragasso, A. Esposito, A. Del Maschio, F. De Cobelli, Milan/IT

11:42
B-0905 Multi-parametric myocardial mapping of patients with Anderson Fabry disease: regional distribution of changes in T1, T2 relaxation and ECV
T.C. Walter, G. Knobloch, A. Sandel, V. Dinq-Reinelt, P. Freyhardt, A. Krebs, T. Denecke, B. Hamm, M. Makowski, Berlin/DE, Prague/CZ

Musculoskeletal

SS 1010b Hand, upper extremity
Moderators: I. Brin, Edinburgh/UK, E. Drakonaki, Iraklion/GR

10:30
B-0907 Diagnostic work-up of scapholunate dissociation: cine-MR imaging as a new approach
E. Rathmann, I. Langner, K. Rebecca, S. Langner, N. Hosten, Greifswald/DE

10:38
B-0908 Ultra-high field MR-microscopy of fetal forearm - ex vivo assessment of the ossification patterns

10:46
B-0909 Accelerated diffusion tensor imaging of the median nerve using simultaneous multi-slice echo planar imaging with blipped CAIPIRINA
L. Tik, M. Pichirelli, D. Renzel, M. Adeb, D. Khrichenko, S. Lambert, P. Casale, P. Freyhardt, Zurich/CH

10:54
B-0910 Evaluation of lesions of the internal ligaments of the wrist: conventional magnetic resonance imaging vs MR arthrography
H.A. Hamal, Cairo/EG

11:02
B-0911 Development of a statistical 3D model of the intact distal radius: preliminary results
J. Binder, S.F. Baumbach, F. Muk, A. Synek, Y. Chevalier, G. Langs, L. Fischer, Munich/DE, Vienna/AT

11:10
B-0912 Can ultrasound replace MRI in assessment of nerve entrapment in osteofibrous tunnels in the upper extremity
A.M. Midei, M. Thony, T. Taymou, L. Adel, Cairo/EG

11:18
B-0913 Possibilities of magnetic resonance imaging in diagnosis of shoulder joint instability
A. Filimonova, I. Lisachenko, A. Znamenskaya, A. Krugov, Moscow/RU
11:26
B-0914  High resolution ultrasound in evaluation of bifid median nerve in carpal tunnel syndrome in Indian population
S. Sripathi, D. Bansal, A. Ayachit, R. Kadavigere; Manipal/IN

11:34
B-0915  Prospective comparative analysis of ultrasound vs arthroscopy in evaluation of impingement syndrome and supraspinatus tear
N. Shetty1, P.E. Chandy1, M.D. Mahajan1, G. K2, N.P. Hegde1, M. Shetty1, A. Shetty2, V. Ruprela1; 1Bangalore/IN, 2Mangalore/IN

11:42
B-0916  A radiographic union score to assess healing in surgically treated long bone fractures: a feasibility study
V. Perlepe1, P. Omoumi2, A. Larbi1, D. Putineanu1, J.-E. Dubuc1, T. Schubert1, B. Vande Berg1, 1Brussels/BE, 2Lausanne/CH

11:50
B-0917  Novel features of metabolic bone diseases in high-resolution imaging: reproducibility and validity of radiologic reading
SS 1402  Digital breast tomosynthesis: the new mammography

K-21  Keynote lecture

B-0918  2D mammography dose vs digital breast tomosynthesis: comparison on a large dataset

B-0919  Impact on the recall rate of digital breast tomosynthesis (DBT) as an adjunct to digital mammography (DM) in the screening setting

B-0920  Comparison of digital breast tomosynthesis vs full field digital mammography for the detection and characterisation of calcifications in the breast

B-0921  False positives (FP) in breast cancer screening with breast tomosynthesis (BT) vs digital mammography (DM)

B-0922  Value of breast tomosynthesis combined with reconstructed synthetic 2D views versus tomosynthesis alone in a diagnostic set-up

B-0923  Is synthesised Digital Mammography (3D-DM) superior to conventional Digital Mammography (2D-DM)? A retrospective study of 210 patients

B-0924  Can digital breast tomosynthesis predict the benignity or malignancy of circumscribed masses?

B-0925  Invasive Breast Carcinomas (IBCs) that do not look suspicious on Digital Breast Tomosynthesis (DBT): important considerations when integrating DBT into clinical practice

B-0926  Additional US or DBT after digital mammography: which one is the best combination?
B-0938 Apoptosis-targeted optical fluorescence imaging for characterisation of regorafenib effects on experimental colon carcinomas validated by perfusion MRI and multiparametric immunohistochemistry
P.M. Kazmierczak, E. Burian, R. Eschbach, M. Minor, L. Havla, H. Hinter, M.F. Reiser, P. Nikolau, C.C. Cyran; Munich/DE

10:30–12:00 Room E1

Musculoskeletal

SS 1410 Spine
Moderators: M.A. Cova; Trieste/IT, C. Giraudo; Vienna/AT

10:30 K-22 Keynote lecture
I.W. McCall; Devon/UK

10:39 B-0939 Metal artefacts reduction for spinal fusion implants in computer tomography: usage of gemstone spectral imaging and iterative reconstruction
F. Wang, H. Xue, W. Han, Z. Wu, S. Ma, Y. Zhang, Z. Jin; Beijing/CN

10:47 B-0940 Diffusion-weighted MRI of the spine: is it helpful to discriminate between Modic type 1 vertebral endplate changes and infectious spondylodiscitis?
D. Rotzinger, P. Rau, M. Reug, C. Federia, J.-B. Zerlauth, J.-B. Ledoux, P. Dnoymi, F. Bece; Lausanne/CH

10:55 B-0941 Prevalence of a lumbosacral transitional vertebra and concomitant edema in the sacral bone in the SPACE (SPondyloArthritis Caught Early) cohort
F. de Bruin1, S. ter Horst1, J.L. Bloem1, R. Landewé2, K.M. Fagerli3, M. van Oosterhout4, D. van der Heijde1, M. Reijnierse1; 1Leiden/NL, 2Amsterdam/NL, 3Oslo/NL, 4Gouda/NL

11:03 B-0942 T2 mapping of the lumbar intervertebral disc at 3.0 Tesla: does the nucleus pulposus T2 relaxation time predict future low back pain?
M. Raudner, D. Stelzeneder, C. Kronnerwetter, R. Windhager, S. Trattnig; Vienna/AT

11:11 B-0943 Fat suppression in MRI of the spine at 3T using a fast T2-weighted two-point mDixon TSE technique: initial clinical experience

11:19 B-0944 Evaluation of artifacts reducing effect of orthopedic metal artifact reduction technique in patients after pedicle screw placement
Y. Wang, Y. Xiao, J. Jian, H. Li, S. Liu; Shanghai/CN

11:27 B-0945 Impact of patient positioning during MRI of the Lumbar Spine in patients with stenosis: changes in lordosis and canal dimensions

B-0938 Apoptosis-targeted optical fluorescence imaging for characterisation of regorafenib effects on experimental colon carcinomas validated by perfusion MRI and multiparametric immunohistochemistry

11:35 B-0946 Differences between supine and orthostatic positions in facet joint (FJ) fluid and spondyloolithesis at lumbar-spine MRI
C. Diotriolo, A. Gardino, P. Gialani1, C. Messe2, G. Di Leo3, F. Sardaneli1; 1Rome/IT, 2Milan/IT, 3San Donato Milanese/IT

11:43 B-0947 Feasibility and reproducibility of T2 mapping of the sacroiliac joints at 3T
O. Lottze, A. Bensfere, E. Dodré, V. Panani, X. Demondion, A. Cotten; Lille/FR

11:51 B-0948 The effect of low back pain on positional changes in the lumbar lordosis: a cross-sectional comparison with healthy controls
B. Hansen, T. Bendix, J. Grindsted, H. Bliddal, R. Christensen, R. Riss, M. Böersen; Copenhagen/DK

10:30–12:00 Room E2

Neuro

SS 1411 Ischaemic stroke (2)
Moderators: A. Biondi; Besancon/FR, W. van Hecke; Antwerp/BE

10:30 B-0950 CT angiography and CT perfusion improve prediction of infarct occurrence and infarct volume at follow-up
T. van Seeters, L. Kappelle, G. Biessels, Y. van der Graaf, B.K. Velthuis; Utrecht/NL

10:38 B-0951 Multicenter experience and outcomes of acute ischemic stroke (AIS) treated with the intra-arterial multimodal thrombectomy using CTP/CTA for patient selection
E. Puglielli1, R. Lattanzi1, M. Fosch1, V. Di Mizio1, V. Di Egidio2; 1Teramo/IT, 2Pescara/IT

10:46 B-0952 Application of multi b-values DWI and ASL in acute ischemia stroke: the relationship between fast-ADC and ASL-CBF
L. Hu, N. Hong; Beijing/CN

10:54 B-0953 Diagnostic improvement from average intensity projection in acute ischemic stroke

11:02 B-0954 Dual-energy CT brain in the evaluation of cerebral infarction
H.S. Teh, M.M.L. Tan, S. Srinivasan, T.W. Choy, R.H. Yew; Singapore/SG

11:10 B-0955 Endovascular treatment of acute ischemic stroke. Evolution among 100 consecutive patients in the last 10 years
E. Pardini, J.C. Méndez, J. Lourido, J. García Poza, J. Sanmillán; Madrid/ES

11:18 B-0956 Perfusion CT (pCT) in acute stroke: value of automatically generated colour map in the evaluation of patients with acute stroke
M. Lilimar, R. Pozzi-Mucelli, F. Diegrass, F. Neri, F. Pozzi-Mucelli, M. Cova; Trieste/IT
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
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<tr>
<td>11:26</td>
<td>B-0957</td>
<td>False penumbra on CT perfusion studies in acute ischaemic stroke (AIS)</td>
<td>E. Puglielli, R. Lattanzi, M. Fuschi, V. Di Maio, V. Di Egidio</td>
<td>Teramo/IT</td>
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<td>11:34</td>
<td>B-0958</td>
<td>Clinical predictors of diffusion-weighted MR-imaging (DWI) abnormalities in transient ischaemic attack (TIA)</td>
<td>M. Malmhoud, A.F. Christensen, I. Havsteen, H. Christensen</td>
<td>Copenhagen/DE</td>
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<td>11:42</td>
<td>B-0959</td>
<td>Benefits and harms of endovascular devices for acute ischaemic stroke in accordance with the cochrane collaboration recommendations</td>
<td>J. Kristensen, C. Glaud, A.F. Christensen, H. Christensen</td>
<td>Copenhagen/DE</td>
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<td>10:30–12:00</td>
<td>Room F1</td>
<td>Oncologic Imaging</td>
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<td>10:30</td>
<td>B-0960</td>
<td>Apparent diffusion coefficient ratio correlates significantly with prostate cancer Gleason score at final pathology</td>
<td>L. Boesen, E. Chabanova, V. Loegager, I. Balslev, H.S. Thomsen</td>
<td>Herlev/DK</td>
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<td>10:38</td>
<td>B-0961</td>
<td>The influence of 3.0T multiparametric prostate magnetic resonance for the identification and localisation of prostatic cancer</td>
<td>D. Cenzi, L. Zantedeschi, A. Borsato, M. Mintor, G. Sencal, S. Montemezzi</td>
<td>Verona/IT</td>
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<td>10:46</td>
<td>B-0962</td>
<td>Multiparametric MRI of prostate: can it serve as a screening tool for cancer detection? A tertiary care cancer hospital experience from South India</td>
<td>A. Phrahdari, K. Khodado, S. Koshy, R. Krishnankutty Nair</td>
<td>Thiruvananthapuram/IN</td>
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<td>11:02</td>
<td>B-0964</td>
<td>High resolution computed DWI with high b-value for prostate cancer: a preliminary study</td>
<td>Y. Han, Y. S. Nakashashi, Y. Ohno, M. Y. K. Kassai, Y. Ueda, K. Kyotani, H. S. Nagayama</td>
<td>Tokyo/JP, Ohtawa/JP</td>
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<td>11:10</td>
<td>B-0965</td>
<td>Diffusion tensor imaging in diagnosing prostate cancer: an innovative application of a proven technique</td>
<td>R. Bhojia, Chennai/IN</td>
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<td>11:18</td>
<td>B-0966</td>
<td>1.5 Tesla MRI of the prostate with 32-channel phase array cardiac coil: is it better than endorectal coil?</td>
<td>A. Pisciotto, R. Faletti, C. Guarnaccia, A. Dominguez, D. Rigli, P. Forno, G. Gandini</td>
<td>Turin/IT</td>
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<td>11:26</td>
<td>B-0967</td>
<td>MRI findings in men on active surveillance for prostate cancer: does dutasteride make MRI visible lesions less conspicuous? Results from a pilot randomised controlled trial</td>
<td>F. Carbonetti, C.M. Mose, N.L. Robertson, A. Freeman, F. De Cobelli, M. Emberton, E. Allen, A. Kirkham, London/UK, Milan/IT</td>
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<td>11:42</td>
<td>B-0969</td>
<td>MR-guided prostastic biopsy at 3T: the role of PI-RADS-score: a histopathologic-radiologic correlation</td>
<td>A. Malich, Nordhausen/DE</td>
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<td>11:50</td>
<td>B-0970</td>
<td>Role of 3T MRI in radiotherapy planning for stereotactic treatment of the prostate with helical tomotherapy</td>
<td>G. Jinno, S. Agostinelli, G. Bianchino, G. Vidano, S. Barra, R. Corvò</td>
<td>Genova/IT</td>
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<td>10:30–12:00</td>
<td>Room F2</td>
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<td>10:30</td>
<td>B-0972</td>
<td>Assessment of bowel wall enhancement for the diagnosis of intestinal ischemia in patients with small bowel obstruction: value of adding unenhanced CT to enhanced CT</td>
<td>A.-M. Chuong, L. Corno, H. Beaussier, G. Chatellier, M. Zins</td>
<td>Paris/FR</td>
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<td>10:46</td>
<td>B-0973</td>
<td>Computed tomography as a diagnostic tool for disseminated histoplasmosis</td>
<td>V.V. Maller, M.O. Afzal, S. Shankar, Memphis, TN/US</td>
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<td>11:10</td>
<td>B-0976</td>
<td>Active severe gastrointestinal bleeding (GIB): diagnostic performance of the expanded criteria for positive findings on multi-detector CT angiography (MDCTA)</td>
<td>G. Zhang, H. Sun, X. Li, Z. Jin, Beijing/CN</td>
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<td>11:18</td>
<td>B-0977</td>
<td>Significance of mesenteric volvulus in patients with bowel obstructive symptom and history of gastric surgery on multidetector CT</td>
<td>J. Han, J. Lee, Y. Jeong, M. Bang, S. Shin, S. Chou, Ulsan/KR</td>
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<td>11:26</td>
<td>B-0978</td>
<td>Comparison between CT and anatomopathological findings in gastrointestinal tumours (GIST)</td>
<td>F. Carbonetti, E. Benard, G. Fedele, M. Di Pietropaolo, L. Fantini, S. Caterino, E. Barocco, V. David, Rome/IT</td>
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10:30–12:00  Room D1

Chest

SS 1404  CT dose reduction and MR indications
   Moderators: J. Broncano, Cordoba/ES, E.J. Stern, Seattle, WA/US

10:30  B-0982  Pulmonary thin-section MRI with ultra-short TE: Comparison of capability for lung and mediastinal radiological finding assessments with thin-section MDCT in patients with various pulmonary diseases
   Y. Uehara1, S. Seki1, H. Koyama1, A. Lu2, M. Yui1, M. Miyazaki3, T. Yoshikawa1, S. Matsumoto1, K. Susumura1, Kobe/JP, Vernon Hills, IL/US, Otawara/JP

10:38  B-0983  Ultra-low dose CT pulmonary angiography for imaging pregnant women: can dose reduction be achieved without affecting image quality?

10:46  B-0984  Reducing the radiation dose of CT scans to exclude pulmonary embolism by using protocols adapted to patient weight
   T. De Bondt, R. Salgado, M. Geldof, F. Deferme, P.M. Parizel, Antwerp/BE

11:00  B-0988  Ultra-reduced dose CT: comparison between iterative model reconstruction, iDose4 and filtered-back projection
   C. de Margaria-Mellon1, C. de Bazelaire1, J. Lambert1, C. Montalbán2, A. Martineau1, E. de Kerviler1, C. Beigelmann1, Paris/France, Lausanne/CH

11:24  B-0991  Usefulness of diffusion-weighted (DWI) magnetic resonance for distinguishing different types of thoracic wall sarcoma
   M. Mitrovic, Nis/Serbia, Cluj-Napoca/RO

10:30–12:00  Room D2

Interventional Radiology

SS 1409  Radioembolisation and chemoembolisation in liver tumours
   Moderators: R.F. Dondelinger, Liège/Belgium, T.A. Heuzen, Hannover/DE

10:30  K-23  Keynote lecture
   P. Haage, Wuppertal/DE

10:39  B-0993  Post-SIRT survival in a tertiary referral centre for HCC
   F. Lucarelli1, G. Vallati1, G. Pizzi2, G. Porte1, F. Rossella1, F. Paradiso1, Rome/Italy

10:47  B-0994  Transarterial chemoembolisation (TACE) in primary liver malignancies: Intraprocedural blood volume measurement using fast C-arm-CT for monitoring response
   T.J. Vogl1, S. Tietz2, S. Zangos1, S. Zeuzem1, Frankfurt/Main/DE

10:55  B-0996  Utility of intra-procedural cone-beam CT in predicting treatment outcome for drug-eluting bead (DEB) transarterial chemoembolisation (TACE)

11:03  B-0997  Conventional transarterial chemoembolisation versus drug-eluting bead transarterial chemoembolisation for the treatment of hepatocellular carcinoma
   R. Kloeckner1, F. Prinz1, C. Ruckes1, S. Tietz2, S. Zeuzem1, Frankfurt/Main/DE

11:11  B-0999  Parametric response mapping of dynamic CT for longitudinal quantitative assessment of regional tumour vascularisation in TACE treatment for hepatocellular carcinoma
   T. Roett1, D. Koencher, D.B. Haasler, T. Kaireit, C. Lutat1, A. Vogel1, B. Meyer, F. Wacker1, H.-O. Shin1, Hannover/DE
Genitourinary

SS 1407  Adrenal and kidney imaging
Moderators: C.D. Alt; Hamburg/DE, O. Nikolic; Novi Sad/RS

10:30  B-1003  Volumetry of adrenal glands: normative data and influence of various parameters
A. Senn, N. Dubaya, A. Janvier, S. Mule, B. Delemarre, L. Hoeffe; Reims/FR

10:38  B-1004  Contrast-enhanced computed tomography (CT) in intensive care unit patients: impact of hyperattenuating adrenal glands
J. Bao, J. Schek, P. Kropli, P. Heusch, N. Heinzer, G. Antoch, R.S. Lanzman; Düsseldorf/DE

11:02  B-1007  Assessment of intravoxel incoherent motion MR imaging for the differentiation of renal benign tumour and renal malignant tumour
L. Li, H. Ye, H. Wang, Y. Tian, D. Zhong; Beijing/CN

11:10  B-1009  Clear cell renal cell carcinoma: associations between CT imaging features and patient survival

11:18  B-1010  Differentiation of clear cell renal cell carcinoma from other renal cortical tumours using a quantitative multi-parametric MRI Approach

11:26  B-1011  Tubulocystic renal cell carcinomas: a new radiological entity

11:34  B-1012  X-ray phase-contrast CT: a novel method for differentiation of low-fat angiomyolipomas from renal cell carcinomas

Radiographers

SS 1414  Dose management in medical imaging
Moderators: H.H. Hjemly; Oslo/NO, C. Loewe; Vienna/AT

10:30  B-1014  Evaluation of beam collimation in paediatric chest radiographs
K. Boss, F. Zarb; Maida/MT

10:38  B-1015  Using BMI-based exposure tables to reduce dose creep and improve image quality in lateral hip radiographs
M.W. Kusk; Esbjerg/DK

10:54  B-1017  An investigation into cardiologists’ opinion/awareness of radiation risk as part of routine patient consent for cardiac interventional procedures
T. Saam, F. Pfeiffer, M.F. Reiser, M. Notohamiprodjo; Munich/DE, Garchingen/DE, Tübingen/DE

11:02  B-1018  Dose evaluation related image quality on paediatric chest examination with dedicated flat-panel
C. Dionisi, E. Stefani, S. Barbera; Torino/IT

11:10  B-1019  AP vs PA positioning in lumbar spine computed radiography: image quality and individual organ doses
E. Davey, A.E. Handford; Manchester/UK

11:18  B-1021  Uniformisation of the anode heel effect and image quality

11:26  B-1022  The effect of lead shielding in pelvis radiography
N. Mekiš; Ljubljana/SI

11:34  B-1023  Optimising pelvis images of a paediatric phantom by using additional filtration and different combinations of kVp and mAs
V. Barsak, W. Schaefer, R. Vissel, C. Bloomfield; E. Rousida, D. Chabloz; E. Trausa; E. Huzina; R. Knust; A. Pereira; P.H. Hoog; Oslo/NO, Groningen/NL, Salford/UK, Lisbon/PT, Lausanne/CH
B-1024  A European collaborative research study investigating paediatric cardiac interventional radiation dose levels
L.A. Rainford, D Catania, M Pasquato, L Masterson, C McLaren, S Foley;
1Dublin/IE, 2Milan/IT, 3London/UK
**Breast**

**SS 1802  Population-based screening**
Moderators: E.J. Comford, Nottingham/UK, K. Pinker-Domenig, Vienna/AT

10:30  **Keynote lecture**
E.M. Falekhor, Genève/DE

10:39  **B-1025**
Performance of grid-less digital mammography acquisition technique for breast screening; analysis of 22,117 examinations
L.B. Larsen, A. Fieselmann, H. Pfaff, T. Mertelmeier, Odense/DK, Erlangen/DE

10:47  **B-1026**
A six-year study of mammographic compression force: practitioner variability within and between screening sites

10:55  **B-1027**
Characteristics of BI-RADS 0 lesions at blinded or non-blinded double reading of screening mammograms and impact of arbitration of discrepant BI-RADS 0 recalls by a third reader
E.G. Klompenhouwer, R.J.P. Weber, G.J. Den Heeten, Amsterdam/NL, Nijmegen/NL, Rotterdam/NL, Manchester/UK

11:03  **B-1028**
Effect of volumetric mammographic density on performance of a breast cancer screening program using full-field digital mammography
J.P. Wever, P. Hollander, W.B. Veldhaus, K.M. Mann, P.H.M. Peeters, E.H. van Uitert, N. Karssemeijer, Utrecht/NL, Nijmegen/NL

11:11  **B-1029**
Well-defined mass lesions in mammographic screening: determining the rate of cysts and solid lesions
F. Kilburn-Toppin, M. Wallis, Cambridge/UK

11:19  **B-1030**
Comparison of the diagnostic workup of women referred at non-blinded or blinded double reading in a population-based screening mammography programme in the south of the Netherlands

11:27  **B-1031**
Characteristics and survival of interval breast cancer subtypes at biennial screen-film and full-field digital screening mammography

11:35  **B-1032**
Screening outcome and surgical treatment during and after the transition from screen-film to digital screening mammography in the south of the Netherlands

**Computer Applications**

**SS 1805  Data sharing and content-based data retrieval**
Moderators: P. Sapoor, Feldkirch/AT, C.G. Trumm, Munich/DE

10:30  **B-1035**
DICOM and DICOM security worldwide: adoption maps and country ratings
O. Pianykh, Newton Heights, MA, US

10:38  **B-1036**
The RSNA Image Share and the evolving IHE XDS-I environment

10:46  **B-1037**
User centered evaluation of the KHRESMOI image search system for radiologists
M. Holter, D. Markonis, H. Müller, R. Donner, S. Laras, Vienna/AT, Sierre/CH

10:54  **B-1038**
Development of a shared multisite virtual PACS
P. Bowles, S. Byce, N. Mitrich, S. Lomax, Liverpool/UK

11:02  **B-1039**
VISCEERAL - visual concept extraction challenge in radiology: segmentation challenge - overview, insights and preliminary results

11:10  **B-1040**
Automated liver lesions classification using dictionary Bag-of-Visual-Words (BoVW) model
N. Rezondem, M.M. Amitai, E. Fland, E. Koenen, A. Ben Cohen, I. Diamant, H. Greenspan, Tel Aviv/IL, Ramat Gan/IL

11:18  **B-1041**
Evaluation of a computer algorithm for automated detection and measurement of liver metastases
E. Fland, A. Ben Cohen, I. Diamant, N. Rezondem, E. Koenen, H. Greenspan, M.M. Amitai, Ramat Gan/IL, Tel Aviv/IL

11:26  **B-1042**
A breast cancer digital repository for assessing CADx methods on mammography
M. Guerra Logro, N. Gonzalez de Posada, D. Cardoso Moura, P. Cunha, I. Ramos, J. Pinheiro Loureiro, I.C. Moreira, B. Ferreira de Araujo, Aveiro/PT, Porto/PT
Real world application of new technologies enhancing teleradiology services in the Waldviertel healthcare region, Austria

B-1046  Reporting of hepatocellular carcinoma: comparison of interreader agreement between LI-RADS and standard LIKERT-scale in patients at risk for hepatocellular carcinoma
B. Berth, O.F. Donati, M.A. Fischer, E.J. Ulbrich, R.A. Christoph, C.S. Reiner; Zurich/CH

Clinical application of LI-RADS: preliminary evaluation with Gd-BOPTA MR Imaging
M. Di Martino, M. Bezzi, C. Catalano; Rome/IT

A prospective study to compare the diagnostic performance of gadoxetic acid-enhanced MRI and US for surveillance of HCC in high risk patients with liver cirrhosis

Hypointense nodules on hepatobiliary phase Gadoxetic acid-enhanced MR images: imaging features, evolution and the role of diffusion-weighted imaging
C. Bringi, M. Di Pietropaolo, G.F. Federici, F. Carbonetti, M. Maragnani, P. Beqani, E. Iannicelli, Rome/IT

Non-hypervascular hepatobiliary phase hypointense nodules on gadoxetic acid-enhanced MRI: risk of HCC recurrence after radiofrequency ablation
D. Lee, J. Lee; Seoul/KR

Role of DWI, ADC and correlation with hepatobiliary phase (DPI, delayed phase imaging) findings in the differentiation of hepatocellular carcinoma (HCC) from dysplastic nodules (DNs) in liver cirrhosis
D. Leonardi, R. Inchingolo, A. De Gaetano, M. Ciresa, L. Bonomo; Rome/IT

Added value of functional dynamic CT-perfusion in assessment of neoangiogenesis tumour-related phenomenon in diagnosis and treatment evaluation of HCC patients
B. Aronson, D. Piot, P.A. Bonaffini, C. Tallez Franzesi, R. Corso, S. Sironi; Monza/IT

Radiological response of hepatocellular carcinoma (HCC) treated with transarterial chemoembolisation (TACE) before liver transplant (LT): correlation with histopathology and recurrence free survival
A. Apostoli, D. Nicolini, C. Mincarelli, G. Svecchi Baroni, A. Mandolese, A. Lorenzoni, R. Candarli, M. Vivarelli, A. Gavagnoni; Ancona/IT

The impact of transarterial chemoembolisation (TACE) on uninvolved liver parenchymal perfusion in patients with hepatocellular carcinoma undergoing TACE
M. Horacek, K. Nikolaiou, S. Kaufmann; Tübingen/DE

Hypointense nodules on hepatobiliary phase Gadoxetic acid-enhanced MR images: imaging features, evolution and the role of diffusion-weighted imaging
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Impact of implementing cardiac CT in evaluating patients suspected of cardioembolic stroke
A.M. Ajlan, R.R. Bagdadi; Jeddah/SA

Role of DWI, ADC and correlation with hepatobiliary phase (DPI, delayed phase imaging) findings in the differentiation of hepatocellular carcinoma (HCC) from dysplastic nodules (DNs) in liver cirrhosis
D. Leonardi, R. Inchingolo, A. De Gaetano, M. Ciresa, L. Bonomo; Rome/IT

The impact of transarterial chemoembolisation (TACE) on uninvolved liver parenchymal perfusion in patients with hepatocellular carcinoma undergoing TACE
M. Horacek, K. Nikolaiou, S. Kaufmann; Tübingen/DE

Scientific Sessions

SS 1801  HCC diagnosis and treatment
Moderators: C. Ayuso Colella, Barcelona/ES, A. Furlan; Pittsburgh, PA/US

Keynote lecture
C. Ayuso Colella; Barcelona/ES

Reporting of hepatocellular carcinoma: comparison of interreader agreement between LI-RADS and standard LIKERT-scale in patients at risk for hepatocellular carcinoma
B. Berth, O.F. Donati, M.A. Fischer, E.J. Ulbrich, R.A. Christoph, C.S. Reiner; Zurich/CH

Clinical application of LI-RADS: preliminary evaluation with Gd-BOPTA MR Imaging
M. Di Martino, M. Bezzi, C. Catalano; Rome/IT

A prospective study to compare the diagnostic performance of gadoxetic acid-enhanced MRI and US for surveillance of HCC in high risk patients with liver cirrhosis

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D. Lee, J. Lee; Seoul/KR

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A.M. Ajlan, R.R. Bagdadi; Jeddah/SA

The impact of transarterial chemoembolisation (TACE) on uninvolved liver parenchymal perfusion in patients with hepatocellular carcinoma undergoing TACE
M. Horacek, K. Nikolaiou, S. Kaufmann; Tübingen/DE

Scientific Sessions

SS 1803  Biomarkers in cardiac imaging
Moderators: A. Kalifatidis; Thessaloniki/GR, T. Leiner; Utrecht/NL

Correlation of thoracic aortic distensibility with aortic and coronary atherosclerotic plaques

Cardiac computed tomography is an accurate method to differentiate left atrial appendage thrombi from spontaneous echo contrast in acute stroke patients
M. Tama, R. Vanhorne, P. Sipoo, A. Mauronnet, P. Jakala, M. Hedhalm; Kuopio/FI

Impact of implementing cardiac CT in evaluating patients suspected of cardioembolic stroke
A.M. Ajlan, R.R. Bagdadi; Jeddah/SA

Geometrical differences of the coronary arteries during the cardiac cycle on 4D CT angiography
J.R. van Zandwijk, C.H. Slump, M. Oudkerk, R. Vliegenthart; Leiden/NL

Heritability of coronary geometry: initial experience
M. Kolossváry, Z.D. Drobni, G. Závodszky, I. Kolossváry, P.M.A. van Ooijen; Utrecht/NL

Heritability of coronary calcification and plaque burden: a classical twin study
P. Maurovich-Horvat, Z.D. Drobni, T. Horvath, B. Merkely, P. Maurovich-Horvat; Budapest/HU; Leiden/NL

Keynote lecture
C. Ayuso Colella; Barcelona/ES
SS 1810  Arthritis

Moderators: A. Cotten, Lille/FR, S. Weckbach, Heidelberg/DE

10:30  K-26  Keynote lecture
I. Busev, Tabas/IR

10:39  B-1067  A comparison between x-ray, CT and DECT in detection of tophi in gouty arthritis: first clinical experience with single source DECT in volume scan mode
T. Diekhoff, T. Pieter, K.-G. A. Herrmann, Berlin/DE

10:47  B-1068  Evaluation of a simplified version of the rheumatoid arthritis magnetic resonance imaging score (RAMRIS) comprising 5 joints (RAMRIS5)
F. Schlicht, F. Buchbinder, P. Seevin, B. Otendorf, C. Rubbert, G. Antoch, F. Miese, Düsseldorf/DE

10:55  B-1069  Increased risk for incidental radiographic osteoarthritis and cartilage loss in knees undergoing meniscal surgery in the previous year

11:03  B-1070  Comparison of optimised high-resolution MR imaging of the temporomandibular joint at 1.5T and 3.0T using an optimised high-resolution protocol

11:11  B-1071  Increased risk for radiographic osteoarthritis features in young active athletes: a cross-sectional matched case-control study
Doha/QA, Boston, MA, US, Lund/SE

11:19  B-1072  Use MRI T1rho monitor the curative effective treatment of epipedium on early osteoarthritis
S. Lu, J. Zhang, S. Shen, F. Wang, L. Gu, M. Chen, L. Zhang, Guangzhou/CN

11:27  B-1073  Is it worth to include MRI of the spine in the ASAS classification criteria for axial spondyloarthritis: data from the DESIR-cohort

11:35  B-1074  Gouty arthritis: effect of dual-energy CT on diagnostic thinking and therapeutic decision making
T. Einkemaster, A. Manoliou, T. Frauenfeld, G. Andreisek, B. Michel, R. Guaggenberger, H. Alkadhi, Zurich/CH

11:43  B-1075  Prevalence of MRI spinal lesions typical for axial Spondyloarthritis in patients with inflammatory back pain

11:51  B-1076  Scoring of spinal lesions compatible with axial spondyloarthritis on MRI in clinical practice by local radiologist or rheumatologist in DESIR: comparison with central reading

10:30–12:00  Room E2

SS 1811  Brain epilepsy and inflammation

Moderators: T. Kau, Hagen/EAT, M. Mantatix, Alexandroupolis/GR

10:30  B-1077  Widespread white matter maldevelopment in children with specific language impairment
I. L. Sopelain, Bukacukovski, N. Szabó, R. Vydrowa, T. Z Kincses, J. Sanda, M. Kynčl, D. Hoffinek, M. Roček, V. Komárek, Prague/CZ, Brno/CZ

10:38  B-1078  Acute necrotising encephalopathy of childhood: correlation of MRI findings and clinical outcome

10:46  B-1079  Abnormal brain development in neonates with congenital heart disease: evaluation with quantitative magnetic resonance spectroscopy
R. A. Papalou, A. Averi, A. Elmashad, M. Nassar, Jantta/EG

10:54  B-1080  The value of resting-state fMRI for detecting epileptogenic zone in patients with focal epilepsy
J. Xu, B. Zhao, P. Zhu, H. Ni, W. Shen, Tianjin/CH, Beijing/CH

11:02  B-1081  fMRI resting-state in temporal lobe epilepsy
N. Amiri, L. Shmeleva, R. Ezhova, St. Petersburg/RU
11:10
B-1082 Relative contributory role of Intercital/Ictal SPECT, interictal PET, MR spectroscopy and T2 relaxometry in localisation of seizure focus in temporal lobe epilepsy: a metaanalysis and systematic review
V. Verza, A. Atshan, S.K. Arjun; New Delhi/IN

11:18
B-1083 Application of “Zero” Time-of-Echo (ZTE) MRI sequence for “Silent” T1-weighted imaging at 7.0 Tesla

11:26
B-1084 Globe flattening: conventional two-dimensional vs three-dimensional T2-weighted imaging
J. Ano, E. Kim, Incheon/KA

11:34
B-1085 Decreased auditory GABA+ concentrations in presbycysis demonstrated by edited magnetic resonance spectroscopy
F. Das, B. Zhao, G. Wang, F. Ren, R.A.E. Edden; Jinan/CN, “Baltimore, MD/US

11:42
B-1086 Diffusion tensor imaging of cervical spine in subjects presenting successful aging: preliminary report
J. Ciescinski, E. Zawada, B. Augusta, P. Zyzycz, Z. Serfin, Bydgoszcz/PL

11:50
B-1087 Multiple sclerosis deep grey matter: the relation between demyelination, neurodegeneration, inflammation and iron

10:30–12:00 Room F1

Oncologic Imaging

SS 1816 Response assessment: new concepts
Moderators: B. Banko, Belgrade/RS, A. Schaab, London/UK

10:30
K-27 Keynote lecture
H. Hricak; New York, NY/US

10:39
B-1088 Predicting non-response to NAC in patients with breast cancer using 3D texture analysis
N. Michail, L. Bollondi, A. Gepiansglop, A. Geiesser, L. Fellahi, H. Muller, I. Lecente; Brussels/BE, Geneva/CH, Como/IT

10:47
B-1089 Tumour heterogeneity quantified by texture analysis on contrast-enhanced CT predicts prognosis in patients affected by colorectal cancer liver metastases treated with bevacizumab-containing chemotherapy
M. Ravanelli, D. Njol Iken, A. Rossi, A. Berruti, R. Maroldi; Brescia/IT

10:55
B-1090 Tumoral response assessment after chemoembolisation of hypervascular liver lesions

10:58
B-1097 Does DWI improve therapy response evaluation by Gd-EOB-DTPA MRI in patients with HCC after radioembolisation?
J. Schelhorn, J. Best, M.P. Reidboldt, G. Gerken, M. Ruhlmann, T.C. Lauenstein; Essen/DE, Essen/DE

11:03
B-1091 Prognostic value of dynamic contrast-enhanced CT with perfusion imaging in assessing the response to anti-angiogenic therapy in patients with advanced hepatocellular carcinoma: preliminary results
G. Gundermann, B. Gippoliti, P.A. Bonailln, C. Tale Francois, A. Rasati, S. Sironi, Monza/IT

11:11
B-1092 Prediction of tumouru response to neoadjuvant concurrent chemoradiotherapy for borderline resectable pancreatic cancer by diffusion-weighted MRI and 18F-FDG PET/CT
I. Joo, J. Lee, J. Han, B. Choi; Seoul/KR

11:19
B-1093 DCE-MRI-derived parameters as predictors to neo-adjuvant chemoradiation treatment of rectal carcinoma

11:27
B-1094 Automated and semi-automated diffusion-weighted MRI volumetry to assess response after neoadjuvant therapy in rectal cancer

11:35
B-1095 Early monitoring of tumour response to photothermal/photodynamic therapy delivered by nano-graphene oxide using diffusion-weighted and BOLD-contrast MRI
P. Zhang, J. Yao, Q. Fu, G. Fu; Xiamen/CN, “Shanghai/JP

11:43
B-1096 Tumour volume as a quantitative imaging biomarker on computed tomography: toward adaptive criteria

11:51
B-1097 Novel digital imaging techniques
Moderators: M. Brink; Zürich/CH, N. Kalyvas; Nijmegen/NL

10:30–12:00 Room F2

Physics in Radiology

SS 1813 Novel digital imaging techniques
Moderators: M. Brink, Nijmegen/NL, N. Kalyvas, Athens/Greece

10:30
B-1099 A new anthropomorphic, physical phantom for DBT performance evaluation
M. Oberholzer, L. Rejny, D. Chen, J. Lo, E. Samei; Bolzano/IT, Durham/NC/US, “Beijing/CH

10:38
B-1098 Dual spectrum single pass digital breast tomosynthesis imaging
I. Sepulveda, S.J. Feng, L. Merchan, J.G. Nagy; Atlanta, GA/US

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I. Sepulveda, S.J. Feng, L. Merchan, J.G. Nagy, Atlanta, GA/US

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10:30–12:00 Room F2

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M. Ravanelli, D. Njol Iken, A. Rossi, A. Berruti, R. Maroldi; Brescia/IT
10:46
B-1100  A structured phantom for comparative detectability evaluation in 2D digital mammography and breast tomosynthesis

10:54
B-1101  In vivo proof of principle: x-ray dark-field radiography for diagnosis of lung fibrosis

11:02
B-1102  Improved imaging performance with Cs-halide needle phosphor based detectors over powder phosphor CR detectors: application in neonatal imaging

11:10
B-1103  RIS-integrated dose monitoring systems: dose quality optimisation by iterative acquisition settings standardisation. First results for a large breast screening programme
A. Nitrogi, M. Berti, A. Contola, R. Sghedoni, C. Campari, P. Pattacini, C. Mino, N. Notari, M. Iori, Reggio Emilia/IT

11:18
B-1104  Comparison of mDIXON and proton density liver fat fraction maps in patients suspected of NAFLD/NASH with 1H-MRS as reference

11:26
B-1106  In vivo study of microcirculation in a murine model of pneumoxyma peritonei using the IVIM method for the assessment of antiangiogenic drugs

11:34
B-1107  Improved receiver coil arrays for real-time contrast-enhanced MRA of the peripheral vasculature
S. Risken, P.T. Weavers; Rochester, MN/US

11:42
B-1108  Anatomical noise and impact on lung nodule conspicuity: comparing digital radiography, dual-energy x-ray, and digital angular tomosynthesis

10:30-12:00  Room D1

Chest

SS 1804  Obstructive pulmonary diseases and reduced lung function
Moderators: G.R. Ferretti, Grenoble/FR, A.P. Parkar, Bergen/NM

10:30
B-1109  Predictive value of CT-quantified emphysema and airway wall thickness on all-cause mortality in current and former smokers with and without COPD

10:46
B-1110  The pulmonary vascular alteration in COPD as determined by quantitative CT measurement: a two-year longitudinal study
N. Xu, C. Jin, Y. Li, J. Ma, Y. Gao, Xian/CH

10:54
B-1112  Correlation study of emphysema based on each lobe and small airway remodeling by using CT quantitative analysis in patients with chronic obstructive pulmonary disease
Y. Guan, Y. Xia, L. Fan, Y. Jiang, S. Liu, Shanghai/CH

11:06
B-1113  Impact of HIV infection length on CT assessed emphysema and respiratory bronchiolitis prevalence and pattern

11:10
B-1114  Incidentally detected lymphangioleiomyomatosis like lesions in male patients on thoracic MDCT
S. Malekzadeh, M. Christodoulou, T. Christoforidis, V. Soubeyran, C. Constantin, M.-E. Hamet, *Sion/CH

11:18
B-1115  CT airway morphology related to obesity: evaluation pre- and post bariatric surgery with functional correlation

11:26
B-1116  Correlation of radiological findings and immunological parameters in patients with allergic bronchopulmonary aspergillosis (ABPA) based on high-attenuation mucus (HAM) impaction and mean CT density
S. Phuyal; Kathmandu/NP

11:34
B-1117  Automated quantification of bronchiectasis, airway wall thickening and lumen tapering in chest CT
A. Perez-Rovira, W. Kuo, J. Petersen, H.A.W.M. Tiddens, M. de Bruyne, Rotterdam/NL, ^Copenhagen/DK

11:42
B-1118  Feasibility study of low dose CT with a hybrid iterative reconstruction technique for evaluation of airway stents in patients with malignant tracheal stenosis
T. Li, Y. Zhang, C. Gao, Y. Jiang, Zhenzhou of Henan province/CH, ^Shanghai/CH

11:50
B-1119  Regional image-derived lung function and structure in chronic obstructive pulmonary disease (COPD) and non-small cell lung cancer (NSCLC)
Interventional Radiology

SS 1809 GI and abdominal interventions

Moderators: A.D. Karaosmano/ğlu, Ankara/TR, A. Veltri, Turin/IT

10:30 B-1120 Fluoroscopic gastrostroduodenal stent placement vs surgical gastrojejunostomy: palliation for patients with gastric obstructions due to unresectable gastric cancer


10:38 B-1121 Efficacy of gastric balloon dilatation and/or retrieval stent insertion for pyloric spasm after pylorus-preserving distal gastrectomy

J. Lee, S. Kim, C.-I. Shin, I. Joo, J. Yoon, J. Baek, J. Han, B. Cho, Seoul/KR

10:46 B-1122 Incidence and management of esophageal perforation after fluoroscopic balloon dilatation in 820 adult patients with esophageal strictures


10:54 B-1123 Management of benign biliary strictures by percutaneous interventional techniques

C.B. Pulker, S. Moorthy, S. Karunathil Pullara, N. Prabhu, R. Kannan, H. P.N, Cochin/IN

11:02 B-1124 Treatment of benign biliary strictures with bioabsorbable biliary stent: preliminary results of a multicentric study

G. Mauri1, C. Michelozzi1, F. Melchiorre1, D. Paredi1, P. Pedicini1, P. Pignoli1, G. Pasini1, M. Salvetti1, E. Cridio1, J. Fages1, M. De Gregorio1, L. Monfardini1, M. Gimenez5; Milan/IT, Rozzano/IT, Sabadell/ES, Zaragoza/ES, Buenos Aires/AR

11:10 B-1125 Balloon dilatation biopsy of the Biliary stricture through the PTBD tract: feasibility and diagnostic accuracy

H. Ryuom, J. Hong, Daegu/KR

11:18 B-1126 Endoluminal radiofrequency ablation of malignant biliary stenoses

T. Andreani1, J. Paneik, J. Hlavsa, V. Bernard, V. Valek, Brno/CZ

11:26 B-1127 Long-term outcomes of intraductal photodynamic therapy in Klatskin tumour patients

O.N. Sergeeva, A. Kukushkin, V. Panov, B. Dolgishin, Moscow/RU

11:34 B-1128 Percutaneous endoluminal RFA in biliary, Wirsung duct and PV inoperable malignant block recanalisation

M. Mirandol, N. Habib, A. Mtvavadi, T. Zhurneleashvili, Tbilisi/GE

11:42 B-1130 In vitro effectiveness of vasodilators used in intra-arterial infusion therapy of non-occlusive mesenteric ischemia

C. Mahlke, J.-P. Kuhn, B. Mensel, A. Gilsch, A. Schreiber, N. Hosten, O. Grisk, Greiswald/DE

10:30–12:00 Room G

Genitourinary

SS 1807 GU special topics

Moderators: A. Tssl, Joannina/GR, A. Witmer, Vienna/AT

10:30 B-1131 Scrotal ultrasonography in adult patients with cystic fibrosis

M. Businco, L.E. Derchi, R. Cassarino, F. Cresta, L. Minicucco, Genoa/IT

10:38 B-1132 Can we investigate the patient with more than 70% dose reduction CT urography without affecting the diagnostic value?

M. At-Arnas, I. Daisov, Sofia/BG

10:46 B-1133 Efficacy of bosentan, an endothelin receptor antagonist, in preventing contrast-induced nephropathy

A. Navaria, E. Slezeteva, M. Salama, I. Manouni, I. Junaieh, Jeddah/SA

10:54 B-1134 Dynamic contrast-enhanced computed tomography: a new diagnostic tool to assess renal perfusion after ischemia-reperfusion injury in mice

M. Braunagel1, A. Helck1, M. Notohamiprodjo2, M. Wagner1, M.F. Reiser1, A. Habicht1; 1Münich/DE, 2Tübingen/DE

11:02 B-1135 Arterial spin labeling and T1-mapping for assessment of acute renal allograft rejection in mice

A. Pinta1, R. Iezzi1, M. Nestola1, A. Contaiejacomo1, F. Guiler1, Hannover/DE, Ed'monton, AB/CA

11:10 B-1136 Dual-phase triple-split-bolus protocol for pre-operative CT evaluation of laparoscopic donor kidney anatomy: a way for dose reduction

A. Sopova1, M. Barinova1, S. Tupsikina1, S.K. Temnovoy, Moscow/RU

11:18 B-1138 MR imaging in patients with stress urinary incontinence

A. Solopova, M. Barinova, N. Tupikina, S.K. Temnovoy, Moscow/RU

11:26 B-1139 Estimates of glomerular filtration rate by cystatin C formula by Larson to assess renal function in outpatients undergoing injection of iodinated contrast for CT

J.F. Meiro1, J. Chognak1, A.G. Bitencourt1, D.H.C. Silva1, J.J. Oliveira1, D.H. Silva1, São Paulo/BR

11:34 B-1140 MR-guided focal laser ablation for prostate cancer followed by radical prostatectomy: validation of MR predicted ablation volume

J.G.R. Bomers1, J. Fetterer1, A. Ringer2, N. Schupp1, M. Braunagel1, A. Habicht1; 1Münich/DE, 2Tübingen/DE

11:42 B-1141 Evaluation of periprostatic nerve fibers using diffusion tensor imaging tractography at 3T: correlation with radical prostatectomy specimens

C. Kim, B. Jeong, G. Kwon, J. Park, B. Park, S. Park, Seoul/KR
Radiographers

SS 1814  Professional challenges for radiographers
Moderators: S. Geers-van Gemeren, Utrecht/NL, C. Roche, Galway/IE

10:30
B-1142  An eye-tracking study investigating radiographers’ visual search patterns whilst reviewing x-ray examination request forms
E. Hendy, J. Grehan, T. Herlihy, L.A. Rainford; Dublin/IE

10:38
B-1143  Chest x-ray agreement: comparative analysis between consultant radiologists, reporting radiographers and expert chest radiologists
N.H. Woznitza1, K. Piper2, S. Burke1, S. Ellis1, G. Bothamley1; 1London/UK, 2Kent/UK

10:46
B-1144  A self-test for screening radiographers in the Netherlands, in signalling apparent abnormalities
C. van Landsveld-Verhoeven, J.M.H. Timmers, P. van de Looi, G.J. den Heeten, M.J.M. Broeders; Nijmegen/NL

10:54
B-1145  Comparative study of diagnostic accuracy between CT colonography and optical colonoscopy

11:02
B-1146  An investigation into the accuracy of computed radiography in detecting ferromagnetic intra-ocular foreign bodies
H. Momoniat, A. England; Manchester/UK

11:10
B-1148  What is the minimum amount of simulated breast movement required for visual detection of blurring?
P.H. Haag, W. Ma, N. Aspin, D. Brettle, S. Millington; 1Manchester/UK, 2Leeds/UK, 3Chester/UK

11:18
B-1149  An investigation into preliminary clinical evaluation in an Irish x-ray departmental setting
R. Murphy, L.A. Rainford, T. Herlihy, J. Grehan, M. Lotter, Dublin/IE

11:26
B-1150  Evaluation of the performance and efficiency of technology and radiographer: the Italian model
D. Di Feo1, C. Dionisi2, S. Barbera3; 1Florence/IT, 2Treviso/IT, 3Biella/IT

11:34
B-1151  Adverse event reporting
S. Brown, L.A. Rainford, J. Grehan, T. Herlihy; Dublin/IE

11:42
B-1152  Endovascular treatment of ruptured abdominal aortic aneurysm (rAAA)
J. Janssens, H. Moxonstien; Odense/DK

14:00
B-1153  Implementation of multiparametric MRI with high-resolution DCE and DWI MRI at 7T of breast tumours: a feasibility study

14:08
B-1154  Quantitative assessment of primary breast cancer at 3.0T MRI
R. Becker, A.J. Patterson, M.A. McLean, R. Manavaki, S. Reid, M. Graves, F.J. Gilbert; Cambridge/UK

14:16
B-1155  Application of total choline compound integral in differentiating benign and malignant breast disease
R. Chen, W.-G. Zhang; Chongqing/CN

14:24
B-1156  Value of 1H spectroscopy 3T MR imaging in breast lesions in addition to BIRADS MR findings and DWI: a preliminary report
R. Abad; M.E. Anbar, A. Ramazaan, M.U. Ugurlu, H. Kayi; İstanbul/TR

14:32
B-1157  The role of high-field MR spectroscopy in the multiparametric evaluation of breast lesions
C. Cavendon, I. Baiglo, L. Camera, G. Melia, P. Caumo, S. Montemezzi; Verona/IT

14:40
B-1158  Intraindividual assessment of tumour neovasularity, microenvironment, glucose metabolism and hypoxia in breast cancer patients by multiparametric 18F-FDG/18F-FMISO PET/MRI at 3T: a feasibility study

14:48
B-1159  Value of simultaneous PET MR mammography in patients with breast cancer undergoing neoadjuvant chemotherapy: preliminary results

14:56
B-1160  Diagnostic accuracy of 18F-FDG PET/CT of the breast: comparison to DCE MRI imaging at 3 Tesla

15:04
B-1161  18F-FDG PET/CT for initial staging in breast cancer patients: is there a relevant impact on treatment planning compared to conventional staging modalities?

15:12
B-1162  Feasibility of [F-18]FDG-PET/CT for clinicopathological evaluation in patients with Ductal Carcinoma In-Situ (DCIS) of the breast
Y. Furuta, K. Kubota, A. Tonihara, Y. Saida, U. Tateishi; Tokyo/JP
**Abdominal Viscera**

**SS 1901a  Pancreas: tumours, pancreatitis**
Moderators: V. Maniatis, Aabenvaa/DK, P. Rodríguez, Madrid/ES

**B-1161** Frequency and morphological features of incidental pancreatic cystic lesions seen on 256 detector row CT: a large population series
P. Allegranza, D. Ippolito, P.A. Bonaffini, F. Leone, D. Fior, A. Casiraghi, S. Sironi; Monza/IT

**B-1162** Clinical and MDCT features of pancreas metastasis from various primary malignancies
T. Ohno, S. Kim, C.-i. Shin, J. Han, B. Choi; Seoul/KR

**B-1163** Diagnostic value of 256 MDCT scan in defining imaging features of incidentally detected hypervascular pancreatic lesions: prevalence and characterization in large cohort of patients
P. Allegranza, D. Ippolito, P.A. Bonaffini, F. Leone, D. Fior, A. Casiraghi, S. Sironi; Monza/IT

**B-1164** Enhancement pattern, clinical features and perfusional characteristics of symptomatic pancreatic endocrine tumours
L. Zhu, H.-d. Xue, X. Wang, Y.-Y. He, H. Sun, Z.-y. Jin; Beijing/CN

**B-1165** Survival outcomes of patients with pancreas neuroendocrine neoplasms who receive surgical resection: association with dynamic contrast-enhanced CT
D. Kim, H. Kim, K. Kim; Seoul/KR

**B-1167** Comparison of MDCT and Gadobutrol-enhanced MRI for detection and characterisation of small (< 3cm) pancreatic solid lesions
I. Choi, J. Lee, M. Yu, J. Kim, J. Han, B. Choi; Seoul/KR

**B-1168** Efficacy of contrast-enhanced magnetic resonance imaging in the differentiation between malignant and benign pancreatic cystic neoplasms

**B-1169** MRI features in differential diagnosis between mucinous cystadenomas and mucinous cystadenocarcinomas of the pancreas
V. De Paola, S. Mohraz, R. Manfredi, R. Pozzi Mucelli; Verona/IT

**B-1170** Magnetic resonance imaging (MRI) to detect early pancreatic alterations and monitor volume variations of abdominal fat stores in a transgenic mouse model of pancreatic adenocarcinoma during disease development
P. Marra, A. Esposito, E. Duquini, T. Canu, V. Pasquale, D. Liberati, L. Piemonti, F. De Cobelli, A. Del Maschio; Milan/IT

**B-1171** Added value of diffusion-weighted imaging for detecting acute pancreatitis in clinically suspected patients
I. Nawi, S. Kim, S.-j. Kim, Y.-j. Lim; Busan/KR

**B-1172** Secretin-enhanced MRCP features of Santorinicele before and after minor papilla sphincterotomy

**B-1173** Gadobutrol-enhanced breast MRI in the preoperative setting: results on 390 patients from an international multicenter study with European blinded readers

**B-1174** Gadobutrol-enhanced breast MRI in the preoperative setting: results on 397 patients from an international multicenter study with United States blinded readers

**B-1175** Gadobutrol-enhanced breast MRI in the preoperative setting: results on 397 patients from an international multicenter study with United States blinded readers

**B-1176** Evaluation of microcalcifications extent on mammograms in patients with ductal carcinoma in situ (DCIS) predicts the value of MRI for DCIS staging
C. Botrell, P. Rinaldi, F. Fabelli, C. Buccanei, M. Giuliani, P. Belli, L. Bonomo; Rome/IT

**B-1177** Breast MR imaging for the assessment of residual disease following initial surgery for breast cancer with positive margins

**B-1178** Feasibility and diagnostic accuracy of dynamic breast MR in supine compared to prone position
C. Forte, A. Fausto, A. Carboni, P. Maccari, L. Volterrani; Siena/IT

**B-1179** Breast mapping of lesion displacement from prone to supine MRI to supine MRI-focused US: what the radiologist should know?
M. Telegrafo, M. Moschetta, A. Stabile Ianora, G. Angelelli; Bari/IT

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**Breast**

**SS 1902b  Preoperative imaging**
Moderators: P. Panizza, Milan/IT, S. Perez Rodrigo, Madrid/ES

**B-1173** Added value of diffusion-weighted imaging for detecting acute pancreatitis in clinically suspected patients
I. Nawi, S. Kim, S.-j. Kim, Y.-j. Lim; Busan/KR

**B-1174** Secretin-enhanced MRCP features of Santorinicele before and after minor papilla sphincterotomy
B-1183  PET/MR mammography for local tumour staging of patients with primary breast cancer: a comparison with PET/CT and MRI alone
J. Bannasch1, J. Nagayama1, E. Buchbinder2, B. Hoffmann3, M. Forsting4, L. Umuro5, S. Kinne6, L. Eisen7, D. Dusseldorf8, D. Forsting9, M. Forsting10

15:04  B-1184  Digital breast tomosynthesis for preoperative local staging of breast cancer in dense breasts

14:00–15:30  Room Z

Computer Applications

SS 1905  Methods for image interpretation and reporting
Moderators: M. Fatehi, Tehran/IR, W. Niessen, Rotterdam/NL

14:00  K-28  Keynote lecture
W. Niessen1, Rotterdam/NL

14:09  B-1186  IHE-compliant templates for structured reporting: first implementations
D. Pinto dos Santos1, G. Klos1, P. Mildenberger2, Mainz1, DE

14:17  B-1187  Free text reporting vs structured reporting of MRI of the pelvis in patients with rectal cancer: potential effects for surgical planning
M. Armbruster1, J. D’Haese1, M.F. Reiser1, W.H. Sommer2, Munich1, DE

14:25  B-1188  Development of eye movement adaptation during the interpretation of CT studies from resident to specialist radiologists: a potential new tool to measure resident training progress
F.V. Berens1, J.K. Kaakinen2, R. Bertram1, L. Heile3, N. Lundborn4, Helsinki3, FI, Turku/FF

14:33  B-1189  Difference in attitudes towards radiology video reporting between inpatient/emergency medicine and subspecialty providers
J.O. Bakken1, T.L. Cooke1, E.S. Cooke1, Lebanon1, NH/US

14:41  B-1190  Comparison of consumer grade, tablet and 6MP-displays: observer performance in detection of anatomical and pathological structures in panoramic radiographs
S. Palsio-Pulskien1, M. Haapala1, E. Liukkonen1, S. Huumonen1, O. Tervonen1, M. Nurmela1, Oulu3, FI, Turku/FF

14:49  B-1191  Patient lifetime graphs as an aid to subsequent image interpretations
D.J. Wringer1, A. Pitt1, A. Piscarac2, C. Popovic1, Houston3, US, ’Chapel Hill4, NC/US

14:57  B-1192  Comparing the utility and usability of the Microsoft Kinect and Leap Motion sensor devices in the context of their application for gesture control of biomedical images
P. Hughes1, N. Nestirotov1, N.A. Healy1, N. Sheehy1, N. O’Hare1, Dublin1, IE

14:56  B-1202  Differential diagnosis of polyoid lesions of the gallbladder using contrast-enhanced ultrasonography
X.-S. Liu1, L.-H. Gu1, J. Du1, J.-G. Xia1, F.-H. Li, Shanghai1, CN

SS 1901b  Abdominal Viscera

14:00  B-1196  Preoperative CT texture analysis predicts outcome in patients with colorectal liver metastases post liver resection
A. Schull1, N. Skogen2, A. Bethke1, K. Labori3, B. Ganeshan4, N.-E. Klauw5, J.B. Dormagen1, Oulu3, NO, London/UK

14:08  B-1197  The optimal body size index for determining the iodine dose for hepatic dynamic CT: a prospective multicenter study using hierarchical multivariate linear regression analysis
K. Iida1, M. Kikunai2, T. Takaoka1, T. Iwakawa1, A. Yoshikawa1, T. Mochizuki1, N. Matsunaga7, Y. Yamashita8, K. Awai1, M. Kanematsu2, K. Tonsok3, T. Ichikawa4, K. Yoshioka5, T. Mochizuki6, Multivariate linear regression analysis

14:16  B-1198  Reproducibility and variability of very low-dose hepatic perfusion CT in metastatic liver disease
O. Topcuoglu1, M. Ozmen1, M. Karcaaltincaba1, D. Avant1, Ankara/IR

14:24  B-1199  Small-size low-contrast liver lesion detectability: dual energy CT (DECT) versus conventional CT
G. Van Gompel1, M. Buls1, P. Coven1, J. de Mey2, Brussels/BE

14:32  B-1200  Performance of ultrasonic transrisonic elastography for the noninvasive assessment of liver steatosis
M. Lupoli Mattia1, B. Feiter1, H. Stefanescu1, A. Tamas1, E. Botan1, R. Badea1, C.J. Napoio1, Red

14:40  B-1201  Acoustic radiation force impulse (ARFI) imaging in the pre-operative liver function evaluation in patients candidate to liver resection
S. Crosera1, M. D’Onofrio1, A. Ruzzeneente1, S. Valcanover1, R. Pozzi Mucelli1, Verona1, IT

14:48  B-1202  Acoustic radiation force impulse (ARFI) imaging in the pre-operative liver function evaluation in patients candidate to liver resection
S. Crosera1, M. D’Onofrio1, A. Ruzzeneente1, S. Valcanover1, R. Pozzi Mucelli1, Verona1, IT
14:40  B-1223  3D time-resolved vessel-selective angiography based on pseudo-continuous arterial spin labelling  
M. Lachweh, T. Jansen-Kor bedding, M.P. van Doorn, M. Feller, D. Jansen;  
Maastricht/DE, U. Hamburg/DE

14:48  B-1224  Dynamic CT angiography for the evaluation of shunting vascular malformation of brain and spine  
E. D'orazio, L.M. Gregori, A.V. Giordano, S. Carducci, A. Splendiani, M. Gallucci, L. Aquilani;  
Napoli/IT

14:56  B-1225  The typical and atypical MR imaging appearances of tuberculosis of the central nervous system. An imaging based experience of 100 cases  
A. Banerjee, L. Tshibanda, C. Di Perri, V. Katsanos, S. Laureys, J. Casselman, P. Parizel;  
Reims/F, Liège/B, Brussels/B

15:04  B-1226  The additional value of neuroimaging combined with visual rating scales to the clinical diagnosis of dementia  
M.V. Verhagen, G.L. Guit, G.J. Haalboom, C.J. Kalisvaart;  
Leiden/NL

15:12  B-1227  Multimodal imaging of disorders of consciousness  
L. Hermoye, L. Tshibanda, C. Di Perri, V. Katsanos, S. Laureys;  
Liège/B, Athens/GR

14:00–15:30  Room F1

Oncologic Imaging

SS 1916  Oncologic imaging of the GI tract  
Moderators: G. Conte; Milan/IT, J. Josna, Jerusalem/IL

14:00  B-1228  Value of FDG PET/CT in the assessment of patients with colon cancer comparing to CT alone  
K. Arabia, Linz/AT

14:08  B-1229  MR imaging for dedicated staging of colon cancer patients: preliminary results  
Maastricht/NL, Eindhoven/NL

14:16  B-1230  Modified, high resolution pelvic MRI in rectal cancer: a comparison of field strengths - 7T vs. 1.5 T  

14:24  B-1231  A novel T3 subgroup system based on MRI for stratifying T3 rectal cancer into favorable and unfavorable subgroups  
S. Noma, S. Cho, K.M. Shin, H. Kim, G. Kim, Y.-J. Jang, H. Ryeom;  
Daegu/KR

14:32  B-1232  Does multiparametric MRI allow for response prediction of neoadjuvant chemoradiation in patients with advanced rectal cancer?  

14:40  B-1233  Evaluation of rectal cancer response to therapy: role of MR tumour regression grade to predict pathological complete response  
M. Faron, M. Esilova, T.N. de Geex, U. Canuso, C. Forina, S. Marzi, A. Laghi;  
Rome/IT
Comparison of iterative reconstruction techniques for reduced-dose liver computed tomography following transarterial chemoembolisation for hepatocellular carcinoma


Detection of midfacial and orbital fractures using ultralow dose CT and iterative reconstructions

G. Winter, D. Datta Torre, R. Hoermann, P. Schullian, E.-M. Gastner, R. Bale, W. Puntlicher; Innsbruck/AT

CTPA bolus timing techniques in pregnancy: an underappreciated contributor to breast radiation dose

D.P. Mitchell, M. Rowan, M. Cockett, F. Ni Aurie, P. Mac Mahon; Dublin/IE

Clinical indications and radiation doses to the conceptus associated with CT scanning in pregnancy: a retrospective study

S.E. Woussen, F. Zanca, H. Bosmans, D. Vanbeekoven, R.H. Dyen; Leuven/BE

Pregnant employee in the cardiac catheterisation lab: data for estimation of conceptus dose

K. Perisinakis, J. Stratakis, G. Solomou, J. Damlilakis; Iraklion/GR

Personnel dose reduction for Y90 microspheres liver-directed radioembolisation: from angiogram suite to patient ward

M. Law, K. Wong, W. Tso, V. Lee, M. Luk; Hong Kong/HK

Comparison of chest-CT findings of influenza virus-associated pneumonia in immunocompetent vs. immunocompromised patients: patterns of involvement and interchangeability at time

C. Kloth, V. Nikolaou, M. Horger; Tubingen/DE

Restrictive allograft syndrome after lung transplantation: new radiological insights

A. Dubbelkamp, J. Coolen, J. Verschakelen, W. De Wever; Leuven/BE

Diagnostic accuracy of ultra-low-dose chest CT with model-based iterative reconstruction (MBIR) in the detection of early pulmonary complications within the first six months following lung transplantation


Does the use of a checklist help medical students in the detection of abnormalities on a chest radiograph?

A. Abed, E.M. Kok, S.G.F. Robben; Maastricht/NL

Using comparison films in education

E.M. Kok, A.B.H. De Bruijn, J. Lippink, J.J. van Memmenboer, S.G.F. Robben; Maastricht/NL

Clinical impact of double reading of thoracic CT

P.M. Lauritzen, J. Andersen, M. Stokke, A. Tenistrand, S. Bjørke, K. Staven, P. Hurlen, G. Sandbæk, P. Gulbrandsen; 1

Scientific Sessions

Sunday

14:41
B-1243
Comparison of iterative reconstruction techniques for reduced-dose liver computed tomography following transarterial chemoembolisation for hepatocellular carcinoma


14:49
B-1244
Detection of midfacial and orbital fractures using ultralow dose CT and iterative reconstructions

G. Winter, D. Datta Torre, R. Hoermann, P. Schullian, E.-M. Gastner, R. Bale, W. Puntlicher; Innsbruck/AT

14:57
B-1245
CTPA bolus timing techniques in pregnancy: an underappreciated contributor to breast radiation dose

D.P. Mitchell, M. Rowan, M. Cockett, F. Ni Aurie, P. Mac Mahon; Dublin/IE

15:05
B-1246
Clinical indications and radiation doses to the conceptus associated with CT scanning in pregnancy: a retrospective study

S.E. Woussen, F. Zanca, H. Bosmans, D. Vanbeekoven, R.H. Dyen; Leuven/BE

15:13
B-1247
Pregnant employee in the cardiac catheterisation lab: data for estimation of conceptus dose

K. Perisinakis, J. Stratakis, G. Solomou, J. Damlilakis; Iraklion/GR

15:21
B-1248
Personnel dose reduction for Y90 microspheres liver-directed radioembolisation: from angiogram suite to patient ward

M. Law, K. Wong, W. Tso, V. Lee, M. Luk; Hong Kong/HK

Chest

SS 1904
Infection, transplantation and quality issues

Moderators: C.J. Herold, Vienna/AT, N.J. Screaton, Cambridge/UK

14:00
B-1249
Prevalence and diagnostic value of the vessel occlusion sign in CT pulmonary angiography of patients with invasive pulmonary aspergillosis: comparison with other characteristic radiomorphological patterns

C. Meech, M. Renwald, D. Buchheidt, K.W. Neff, S.O. Schoenberg, T. Hentzel; Mannheim/DE

14:08
B-1250
Pulmonary MRI at 3T in immunocompromised patients with invasive fungal infections

S.N. Nagel, Y. Löschmann, S. Schwartz, B. Hamm, T. Elgeti; Berlin/DE

14:16
B-1251
Incidence of the reversed halo sign and the evolution of the radiologic findings in 20 patients with proven pulmonary mucormycosis

J. Kloth, M.T. Kim, S.-H. Kim; Seoul/KR

14:24
B-1252
Computed tomography features of pulmonary nocardioid

R. Astari Menareh Bazari, P. Mehrni, M. Karimi, E. Esfandiari; Tehran/IR

14:32
B-1253
Comparison of chest-CT findings of influenza virus-associated pneumonia in immunocompetent vs. immunocompromised patients: patterns of involvement and interchangeability at time

C. Kloth, V. Nikolaou, M. Horger; Tubingen/DE

Interventional Radiology

SS 1909a
Embolotherapy

Moderators: A. Bharadwaj, Aarhus/DK, O. Pellerin, Paris/FR

14:00
K-31
Keynote lecture

R.W. Gunther; Berlin/DE

14:09
B-1260
A promising non-adhesive cyanoacrylate preclinical study on animal model

J. Tsekos, V. Vincent; Marseille/FR

14:17
B-1261
Radial versus femoral artery access in patients undergoing peripheral artery embolisation

E. Khayrutdinov, A. Arablinskiy, V. Tsurkan, I. Vorontsov; 1

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Drammen/NB, 2Banum/NB, 3Nordbyhagen/NB

14:25
B-1262
Endovascular management of postpancreatectomy hemorrhage

M. Bonot, E. Potter, S. Gujoux, M. Abdel-Rehim, M. Lagadec, A. Sibert, A. Sauvanet, V. Wliqan; Clichy/FR

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14:33
B-1263 Prostatic artery embolisation using the PerFectED technique in the treatment of prostatic benign hyperplasia: results of a single-centre prospective study
D. Amouyal, O. Pellerin, N. Thiounn, M. Sapoval; Paris / FR

14:41
B-1264 Functional and technical outcomes of patients treated with selective microcoil embolisation due to pseudoaneurysms or arteriovenous fistulas after partial nephrectomy
F.F. Strobl, M. D’Anastasi, T. Waggershauser, C.G. Trumm, A. Graser, M.F. Reiser, P.M. Paprottka; Munich / DE

14:49
B-1265 Bariatric embolisation using non-spherical Polyvinyl alcohol (PVA) for suppression of the ghrelin in swine models
J. Kim, M.-D. Kim; Seoul / KR

14:57
B-1266 Selective arterial embolisation for haemangiomas
E. Facchini, G. Rossi, E. Rimondi, P. Spinnato, G. Filonzi, T. Bartalena, C. Errani, A. Bazzocchi; Bologna / IT

15:05
B-1267 Pre-delivery uterine arteries embolisation preventing peri-post-partum haemorrhage (PPH) in placenta implant anomalies
R. Niola1, F. Guazzetti2, G. Nasti1, M. Di Pasquale1, F. Miaglione1; 1Naples / IT, 2Rome / IT

15:13
B-1268 Endovascular management of massive post-partum hemorrhage in abnormal placental implantation deliveries
A. Robonato, S. Mosca, M. Fischer, D. Maertini, L. Bellantoni, C. Fusco, C. Di Elia, G. Grino, M. Scialpi; Perugia / IT

15:21
B-1269 Fetal radiation dose during prophylactic balloon occlusion for morbidity adherent placenta - a single centre experience
V. Scariano1, A. Susac1, A. Morasca2, F. D’Antonio1, A. M. Belli1; 1London / UK, 2Rome / IT

14:00–15:30 Room G

Genitourinary

SS 1907 Urinary stones, ureters and bladder pathology
Moderators: M. Bertolotto, Trieste / IT, L. Ponhold, St. Polten / AT

14:00
B-1270 Additional spectral shaping by a tin filter (150 kV Sn) improves image quality and reduces dose in low-dose abdominal CT for urolithiasis
P. Dewes, C. Frellesen, J. E. Scholtz, S. Fischer, B. Schulz, T. J. Voel, R. W. Bauer; Frankfurt / DE

14:08
B-1271 Diagnostic efficiency of split-bolus dual-energy computed tomography for patients with suspected urinary stones
T. Ugo, S. Rim, Daegu / KR

14:16
B-1272 Dual energy CT classification of renal calculi using single energy scanners
V. Heerschap, F. Schaaf, M. Laradde, Dresden / DE

14:24
B-1273 Diagnostic value of B-TFE MR Urography and the effect of additional factors on the diagnosis of urinary stones
E. Fige, C. Coban, T. Cicek, U. Gunalul, Konya / TR

14:32
B-1274 Renal stone composition in Vivo Determination: comparison between 100/140 kV Dual-energy CT and 120 kV Single-energy CT
M. Bonatti, F. Ferro, P. Prender, M. Sonnerer, G. Bonatti, Bolzano / IT

14:40
B-1275 Effective z accuracy to determine stone composition by single-source dual-energy computed tomography: an in vivo study
A. Fejfar, C. Wengen, R. Levy, C. Sanait, V. Maciagte, G. Hue, M. Bubenheim, A. Safsai, J. N. Bacher; Rouen / FR

14:48
B-1276 Visceral obesity and urolithiasis - impact on disease incidence, stone size and radiation dose
J. Hansmann, S. O. Schönberg, A. Tran, T. Hengler, H. Haubenreisser; Mannheim / DE

14:56
B-1277 The role of multi-parametric MRI and the supplemental worth of diffusion-weighted MRI on bladder cancer before surgical operation
E. Hocaoglu, S. Acay, C. Coban, B. Kucükömer, E. Ino, İstanbul / TR

15:04
B-1278 Role of diffusion-weighted (DW) MRI to evaluate upper excreto urinary wall thickening

15:12
B-1279 The value of diffusion-weighted MRI in the diagnosis of muscle-invasive bladder cancer
W. Xia, X. Chen, L. Wang, H. Li, Zhengzhou / CN

15:20
B-1280 The dynamic MRI compared to conventional cystogram in evaluation of vesico-urethral anastomosis after laparoscopic radical prostatectomy
M. Danti, F. Forte, S. Sbarbati, G. Paapiarella, P. Nardis, S. Della Sala; Rome / IT

14:00–15:30 Room K

Interventional Radiology

SS 1909b Aortic interventions
Moderators: M. Köcher, Olomouc / CZ, B. Peynercoğlu, Ankara / TR

14:00
K-32 Keynote lecture
M. Szczerbo-Trojanowska; Lublin / PL

14:09
B-1281 Two-stage implantation in thoracic endovascular aortic repair
M. Peng, Beijing / CN
14:17  B-1282  Re-expansion of thoraco-abdominal and infrarenal true lumen collapse by bare-metal stents in complicated acute aortic dissection type B
A. Massmann, P. Fries, R. Seidel, B.K. Schneider, A. Buecker, H.-J. Schäfers; Homburg a.d. Saar/DE

14:25  B-1283  Application of color-coded DSA technique in intra-procedural assessment of thoracic endovascular aortic repair combined with chimney stenting for left subclavian artery
X. Guo, P. Li, W. Qiu, L. Ye, L.J. Huang; Beijing/CN

14:33  B-1284  Sandwich-technique for hypogastric artery preservation by bilateral transfemoral access
A. Massmann1, A. Buecker1, N.J. Mosquera2; 1Homburg a.d. Saar/DE, 2Ourense/ES

14:41  B-1285  Evaluation of aneurysm neck angle change after endovascular aortic aneurysm repair
Y.S. Jeon, T.B. Le, M.H. Moon, K.E. Hong, S.G. Cho, K.M. Park; Incheon/KR

14:49  B-1286  Non-invasive 4-dimensional wireless aneurysm sac pressure monitoring after endovascular aortic aneurysm repair (EVAR): conceptional design of an integrated stent-graft and first in vitro results
C. Spink1, B. John1, W. Krautschneider1, D. Schröder1, R. Fischbach2, M. Braunschweig; 1Hamburg/DE, 2Dresden/DE

14:57  B-1287  Ultra low profile polymer-filled stent graft for abdominal aortic aneurysm treatment: two-years follow up
E. Macchi, G. De Marchi, A. Ierardi, E. Duka, N. Lucchini, L. Nocchi Cardim, F. Fontana, G. Carrafiello; Varese/IT

15:05  B-1288  First experience with a novel bioabsorbable and non-synthetic vascular closure device: FISHing in the angio-suite
M. Treitl, M.F. Reiser, K. Treitl; Munich/DE

15:13  B-1289  Treatment by embolisation of type 1 endoleak after EVAR
C. Marcelin, Y. Lebrat, N. Grenier, A. Lasserre; Bordeaux/FR

15:21  B-1290  Hematrix® Active Patch for post-interventional hemostasis in femoral artery access: a study on efficacy and safety
A. Sauer, A. Dierks, F. Wolfschmidt, N. Hassold, T. Bley, R. Kickuth; Wuerzburg/DE
Late-Breaking Clinical Trials (LBCT)

Moderators: M. Dewey, Berlin/DE; N.R. Dunnick, Ann Arbor, MI/US

12:30

**Image-based structural and functional phenotyping of the German COPD cohort (COSYCONET) using MRI and CT**

B. Jobst1, J. Biederer1, I. Fellhauer1, S. Triphan1, K. Burmester1, J. Schliebusch1, A. Karch2, C.-P. Heußel1, H.-U. Kauczor1; 1Heidelberg/DE, 2Hannover/DE

12:40

Presentation by discussant: J.B. Seo; Seoul/KR

12:45

**A pragmatic randomised controlled trial of the comparative effectiveness of computed tomography versus invasive coronary angiography for the management of stable chest pain patients: Methods of the multicentre DISCHARGE trial**

R. Haase, M. Dewey, on behalf of the DISCHARGE Consortium (www.dischargetrial.eu); Berlin/DE

12:55

Presentation by discussant: K. Kitagawa; Mie/JP

13:00

**Economic evaluation of gadoxetic acid-enhanced magnetic resonance imaging (Gd-EOB-DTPA-MRI) in the diagnosis of colorectal-cancer metastasis in the liver: results from the VALUE trial**

C.J. Zech1, N. Justo2, A. Lang2, A. Ba-Salamah3, M.-J. Kim4, H. Rinde5, E. Jonas2; 1Basle/CH, 2Stockholm/SE, 3Vienna/AT, 4Seoul/KR, 5Binningen/CH

13:10

Presentation by discussant: V. Vilgrain; Clichy/FR

13:15

**Proteus trial: comparing neoplasia yield and attendance of sigmoidoscopy and CT colonography in a colorectal cancer screening setting**

D. Regge1, C. Senore2, G. Iussich1, L. Correale2, C. Hassan3, S. Montemezzi4, N. Segnan2; 1Candiolo/IT, 2Turin/IT, 3Rome/IT, 4Verona/IT

13:25

Presentation by discussant: A. Lady; Latina/IT
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