

Abstract Submission for ECR 2011

- **Scientific Paper** (talk: 7 min. + 2 min. discussion)

Abstracts should be submitted in a format ready for publication. Please check and avoid any typographic and grammatical errors.

Kindly note that **ordinary case reports** (three or fewer cases) **will not be accepted!** The reviewers are instructed to filter these out. We recommend submitting case reports to EURORAD (www.eurorad.org).

Abstract Submission Instructions:

A properly submitted abstract will include the following elements:

- Title
- Author(s)
- Topic
- Abstract Categories
- Abstract body (summarise subject in 250 words or less) **structured as follows:**
 - **Purpose**
 - **Methods and Materials**
 - **Results**
 - **Conclusion**

Sample Abstract Body:

Purpose: Partial volume averaging effects complicate measurement of acoustic neuroma size with the error greatest in small tumours. A method of volume measurement that incorporates partial volume averaging is introduced.

Methods and Materials: Post contrast T1 volume MR images were acquired from 48 patients. A computer generated phantom was created, mimicking the partial volume and noise characteristics of acoustic neuromas. Manual volume segmentation is taken as the gold standard. Tumour diameter, perimeter length, elliptical and directly measured area were measured on the image demonstrating the largest tumour area. Three dimensional seeding was performed on the tumour volume as well as an algorithm developed for automated estimation of tumour size using Bayesian classifiers.

Results: Correlation with gold standard volume measure was greatest for the automated algorithm (95 % confidence interval for R^2 is 0.962 to 0.988), followed by measures of seeding (0.773 to 0.923), ellipse (0.755 to 0.916), area (0.645 to 0.872), diameter (0.491 to 0.803), and perimeter (0.491 to 0.803). Phantom studies on partial volume regions show the accuracy of the partial volume measurement was 5 % (c.f. 13 % for repeated area measurements).

Conclusion: A Bayesian statistical classification method can rapidly provide measures of tumour volume which are reproducible and offer better accuracy than current time consuming gold standard techniques. This method should also increase the accuracy of growth rate measurements for intracanalicular acoustic neuromas.

Important abstract elements:

- Purpose clearly stated
- Precise description of methods and materials (patients), especially patient recruitment, analysis and statistics
- Precise description of results with numbers and statistics
- Statistics should be appropriate
- Work-in-progress is only acceptable for extremely innovative or interesting approaches
- Coherence between stated purpose, methods and materials, results and conclusion (M&M should be suited to address the stated purpose, results should reflect M&M, conclusions should address previous sections)

The ECR 2011 Abstract Submission System will ask you to enter each element in the proper format. It is recommended that authors prepare their abstracts in advance using any standard word processing system, and then 'copy and paste' the elements from the word processing document into the appropriate spaces in the system.

Please do not include references, acknowledgements, graphics, tables or figures in your abstract body as these will not be published in the abstract book. Text should be submitted using standard Latin characters.

Submission Steps:

1. Affirmations

Each author must agree to the following conditions:

- All authors are aware that their names appear on the abstract.
- If the abstract is accepted, the ESR (European Society of Radiology) will hold the copyright.

2. Title

Please keep titles as long as necessary but as short as possible. Titles should all be lower case except for acronyms, proper names (e.g. Doppler, Crohn's, X-ray), the first letter and after colons. Please spell out any Greek or scientific characters (e.g. beta). Do not use a full stop at the end of the title.

3. Topic

Select the appropriate subspecialty (topic) in the box on the screen. This selection directs your abstract for review. Reviewers may swap abstracts once received if they feel they will fit better in another topic.

4. Abstract Categories

A new list of keywords has been introduced: the four equally weighted keyword columns (Area of Interest, Technique, Procedure, Special Focus) each contain a variety of terms relevant to radiology.

- Area of Interest: one selection (required), up to three (optional)
- Technique: up to three (optional)
- Procedure: up to three (optional)
- Special Focus: up to three (optional)

5. Author(s)

A maximum of nine authors can be listed. Only people that contributed to the work should be listed – gift or ghost authorship is strictly discouraged. Note that the system requires contact information (incl. email address) for each author.

Please select the presenter, set the order of authors and check your author block with regard to spelling or special characters.

6. Projection material

In the 'Additional Information' section, it will be required to tick a box stating that you understand that only digital projection material will be allowed.

7. Abstract body

Enter the abstract text by typing or copying and pasting plain text from a prepared document. Keep strictly to the given structure.

8. Summary page

When the abstract submission process is complete, a summary page is displayed. This page includes the abstract control number and full details of your submission. Please review this summary carefully to ensure that it is correct. If it is not, please edit accordingly.

9. Confirmation

Optional: a confirmation of your submission can be emailed to you and to your co-authors.

Please make sure that your abstract is properly structured and proof-read concerning English spelling and grammar. This will certainly improve the quality of your submission and thus influence its scores in a positive way.

You can **edit or delete your abstract** online at any time before September 18, 2010. If you wish to withdraw your abstract after that date you must inform the ESR Office in writing by email.

Please note that **only digital material** will be allowed for **oral presentations**. It can be submitted online prior to ECR 2011 and/or be transferred from the speaker's CD-ROM, DVD, Zip disk or USB device to a central server onsite at least **2 hours prior to the session**. Computers connected to data projectors are provided in each lecture room for the speaker to retrieve the saved data. The material remains the property of the speakers and will not be reused without permission.

It is expected that acceptance of an abstract for presentation at ECR will lead to eventual submission of that work to "European Radiology", the official journal of ESR.

Detailed notifications of acceptance and **guidelines for presentation** will be sent by email at the end of November 2010. An early notification will be available at the beginning of November.

Presenters of accepted scientific papers (no first or second authors) who have paid their ESR membership fee by October 27, 2010, can attend ECR 2011 for a reduced fee of €150.

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