

# Case-Based Diagnosis Training

## Patient:

Gender: *Female*

Age: *54 years*

## Clinical history and working diagnosis on the referral:

Squamous cell carcinoma of the larynx who received RT in 2011.

Surgery: laryngectomy and total lymphadenectomy.

## Normal variant:

Crossed renal ectopia with right kidney fusion.

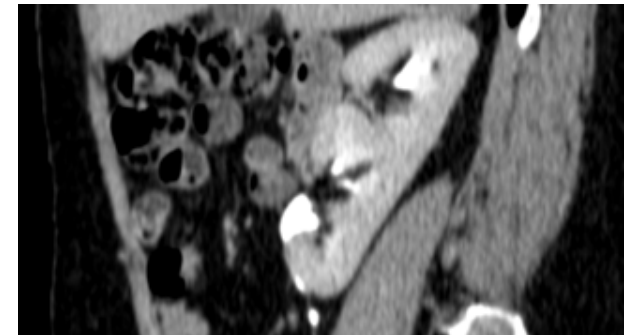
## Submitted by:

M. Sarabia Unibaso

Please add pictures (radiograph, ultrasound, CT or MR images) and schematic drawing of the developmental process *if applicable* by clicking on the symbols within the boxes below:



**Picture 1:** Axial CT showing no kidney at the left renal fossa.



**Picture 2:** Sagittal CT image showing fusion of both kidneys.

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## Additional information

In case you want to submit further pictures, please add these (radiograph, ultrasound, CT or MR images) and schematic drawing of the developmental process *if applicable* by clicking on the symbols within the boxes below:

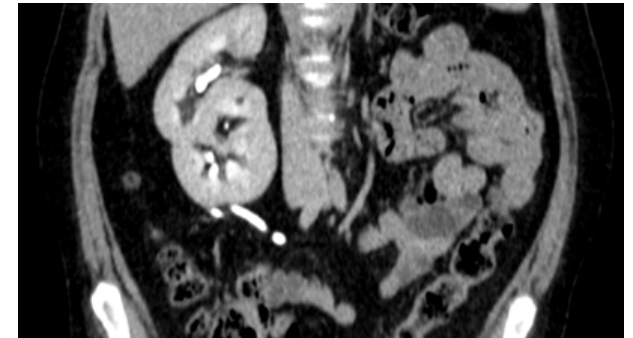
### Underlying step in embryological development:

It results as a consequence of abnormal renal ascent in embryogenesis with fusion of the kidneys within the pelvis.

It is thought to occur in the first trimester, at around 4<sup>th</sup>-8<sup>th</sup> week of fetal life (In a normal situation the kidney reaches its appropriate position at L2 level at the end of the 2<sup>nd</sup> month)

### Potential differential diagnostic entities:

- Renal ectopia
- Kidney in hoarseshoe



**Picture 3:** Coronal CT showing both kidneys fused and both excretory systems.



**Picture 4:** MIP coronal CT image showing the renal ectopia with fusion of the kidney.