15 - Imaging

OC-080 - (23746) - COMMON AND SPECTACULAR VARIATIONS OF THE RENAL VESSELS

A. Jianu (Romania)[2]; M. Rusu (Romania)[1]

1 - “Carol Davila” University of Medicine and Pharmacy; 2 - “Victor Babeș” University of Medicine and Pharmacy

Adelina Jianu
Timișoara

Mugurel Rusu
Bucharest

There are no conflicts of interest through commercial benefits.
Anatomical descriptions of the renal vessels indicate single renal arteries (RAs) and veins (RVs). Most anatomical studies of the renal vessels counted the renal vessels and studied the renal entry points. It was aimed to document ordinary and extraordinary anatomical variants of the renal vessels.
Two hundred archived angioCT files were documented for the anatomical variations of the renal vessels. Peculiar and rare cases were selected for presentation.
A plethora of anatomical variants were documented. There were variants and anomalies of the RAs, RVs, and kidneys, as well as complex heterogeneous anatomical patterns. Variants of the RAs were documented: multiple, polar (multiple, single, polar pedicles), short (early-branched), precaval, thoracic, and collateralisation. There are reported different variants of the RVs: retroaortic LRV, circumaortic LRV, plexiform LRV, fenestrated LRV, fenestrated RRV, the LRV-hemiazygos connection, the right caval-renal-gonadal venous ring, aberrant drainage of the LRV, and left renal-gonadal venous ring. Malrotated, ptotic and ectopic kidneys, as well as dehiscent renal sinuses, were found. There were also four cases with horseshoe kidneys.
The variational possibilities of the renal vessels are unpredictable. They override the textbook anatomy. Before any surgical intervention on the kidneys, they should be carefully documented. Three-dimensional volume renderings allow a good topographical orientation.

Palavras-chave : kidney, renal artery, renal vein