PO-007 - (23765) - RARE AND NOVEL JUGULAR AND CAROTID ANATOMICAL VARIANTS IN A CASE WITH LONG STYLOID PROCESSES

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Various anatomical vascular variants are often explicitly documented, but the broader anatomical context is frequently overlooked. This report presents multiple rare and novel cervical vascular anatomical variations observed in a single case.

A case featuring numerous anatomical variants was serendipitously identified during the examination of a set of head and neck CT angiograms. Consequently, it was meticulously documented using the Horos 3.3.6 (Horos Project, Annapolis, MD, USA) software.

Long styloid processes (SPs) were observed bilaterally. The right SP comprised ossified tympano-, stylo-, and ceratohyal segments, while the left SP contained ossified tympano-, stylo-, and hypohyal segments. Bilateral compression of the internal jugular veins (IJVs) at the transverse processes of the atlas was identified as the anatomical basis for the jugular nutcracker syndrome. Bilateral Launay's external carotid veins were traced along the external carotid arteries to the carotid triangles, draining into the IJVs and communicating bilaterally through the prevertebral venous plexus. A bilateral overlap of the mastoid processes and the transverse processes of the atlas was observed. Finally, the right lingual artery exhibited a sinuous course over the greater horn of the hyoid bone, reaching deep to the hyoglossus by perforating it above the greater horn.

When a particular anatomical variant is found, other unexpected ones are not excluded in the same case.

Palavras-chave : carotid artery, jugular vein, temporal bone