Aorto-Pulmonary Window and Anomaly of the Origin of the Left Pulmonary Artery Trunk

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Clinical Image description
This imaging case is about a rare case of Aorto-pulmonary window [1] and anomaly of the origin of the left pulmonary artery trunk, discover on Angio-CT scan in a 29 years old woman.

The Axial view of the Angio CT-scan showed a communication between the ascendant Aorta and the pulmonary artery trunk (Figure 1).

The axials views for comparison show the two branches have their own origin (Figure 2A and 2B) and the pulmonary artery trunk give directly the right trunk. There is no bifurcation between the right and the left pulmonary artery. The right had a modal origin from the right ventricular and conserved the curve direction (2A) but the left, lost its curve appearance and go straight on the posterior (2B).

About this origin, on the volume reconstruction, the left pulmonary artery trunk comes from the right auricular (Figure 3).

References