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Charting the Uncharted: Diagnostic of Anomalous Right Coronary Artery Originating from the Mid Left Anterior Descending Artery

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ABSTRACT

Background:

Most coronary artery anomalies are present from birth, but they are often only discovered during routine cardiac catheterizations, with a detection rate of 1.3%. One rare variation is when the right coronary artery originates from the left coronary system. This anomaly is typically not a cause for concern, as long as the vessel does not pass between the aorta and pulmonary artery.

Case Illustration:

A male patient of 55 years old was diagnosed with NSTEMI and underwent coronary angiography. Despite multiple attempts, the medical team was unable to cannulate into the right coronary ostium. The left coronary ostium was located normally in the left sinus of Valsalva. Selective left coronary arteriography displayed normal courses of the left main and LAD. During the procedure, a critical stenosis in the LCx and a possible CTO at the RCA ostium were identified. The patient received a stent in the LCx and returned the following month for another angiography, during which he received a stent in the proximal LAD. However, the cine angiography revealed an anomalous RCA originating from the mid-portion of LAD, coursing anteriorly to the pulmonary artery and down to the

right atrioventricular groove. Subsequent CCTA confirmed the RCA's origin from the mid-LAD.

Conclusion:

The report highlights a rare occurrence wherein the RCA, a solitary coronary artery, arises from the middle of the LAD. Through the implementation of CCTA, a non-invasive imaging technique, a thorough analysis of the heart and its intricate vascular system is made possible, thereby facilitating the creation of viable cardiovascular treatments, both surgical and interventional. In a clinical context, this technology proves to be particularly valuable in detecting and assessing coronary anomalies.

Keywords:

Single coronary artery, Anomalous right coronary artery, CT coronary angiography, RCA from LAD

BIOGRAPHY

Pratiwi Indrihapsari is a Cardiovascular Resident of Universitas Brawijaya, Indonesia.



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