Stray RCA

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DESCRIPTION

A 30-year-old man presented to our clinic with coronary artery disease findings. Cardiac CT angiography revealed myocardial bridges on right coronary artery (RCA) and left anterior descending (LAD), and also coursing anomaly in RCA.

RCA progressed in normal position (atrioventricular groove) until output of AM1 (acute marginal artery) branch after ostium. Then, RCA displaced to right laterally (posterior side of the right atrium) and remained that way up to the level crux cordis. From crux cordis, it became normal position and gave branches (volume-rendering image, figure 1 and axial image figure 2).

Myocardial coursing abnormalities have two subgroups according to the classification of Greenberg *et al*¹ in 1989; myocardial bridging and arterial duplication. This anomaly, which we described, is a coursing anomaly but doesn't belong to any of these subgroups and is not previously described. To the best of our knowledge, this is the first

Figure 2 Axial CT image shows the curving right coronary artery and its branches.

description of this kind of anomaly in English literature. We named as stray coronary artery anomaly. Cardiac surgeons should be aware of this kind of coursing anomaly during surgical procedures.

Figure 1 Volume-rendering CT image shows mid-portion of the right coronary artery (RCA) is in behind of the right atrium. Proximal and distal ends of the RCA are in atrioventricular groove as normal.

Learning points

- ▶ To the best of our knowledge, this is the first description of this kind of anomaly in the literature in the English language. We named as stray coronary artery anomaly.
- ▶ -Cardiac surgeons should be aware of this kind of coursing anomaly during surgical procedures.

Competing interests None.

Patient consent Obtained.

Provenance and peer review Not commissioned; externally peer reviewed.

REFERENCE

- 1 Greenberg MA, Fish BG, Spindola-Franco H. Congenital anomalies of the coronary arteries. Classification and significance. *Radiol Clin North Am* 1989;27:1127–46.

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