Images in Cardiology

Giant aneurysm of left main coronary artery

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ABSTRACT

We report a case of giant aneurysm of left main coronary artery in a patient with coronary artery disease (CAD).

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1. Case

A 59 year old hypertensive gentle man presented to us with recent onset effort angina. His coronary angiography revealed a large aneurysm of the left main coronary artery (Fig. 1). The left coronary tree was obscure, as the contrast swirled around in the aneurysm with stasis. CT coronary angiogram confirmed a giant aneurysm of the left main coronary artery measuring 2.1 x 2.4 cm (Fig. 2). Circumflex artery had a significant stenosis after the first obtuse marginal (Fig. 3). The aorta and the pulmonary arteries were normal. The patient is awaiting surgery.

Coronary artery aneurysms (CAA) are uncommon with an incidence of 0.3%–5.3% in the population.1 CAA is defined as a localized dilatation >1.5 times the diameter of adjacent normal coronary segments.2 A CAA that exceeds 2 cm in diameter is termed as a "giant aneurysm".3 Right coronary artery is most frequently involved (40–70%), followed by left anterior descending and circumflex arteries.4 Aneurysms of

Fig. 1 – Giant Left main CAA seen during coronary angiography. The distal coronary bed was obscure.

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left main coronary artery are rarest and are reported in <0.1% of coronary angiograms. Atherosclerosis as in our case, accounts for majority of CAA in adult population (50–80%).

**Conflicts of interest**

All authors have none to declare.

**REFERENCES**