

NORTH AMERICAN SOCIETY FOR CARDIOVASCULAR IMAGING

39 y/o woman with PMHx of HTN and hemorrhagic
CVA presents to ED with acute chest pain.



A

B

C

D

Multimodality Imaging

(A) PSAX TTE

(B) CCTA

(C) 3D VR CTA

(D) MPR LCA

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Diagnosis: Giant Coronary Artery Aneurysm

- Focal dilation of coronary artery $> 1.5x$ the size of the vessel, seen in 0.3-5% of patients undergoing CAG
- Males more affected, proximal vessels $>$ distal
- RCA most affected 40%, LAD 32%, LM least affected 3.5%
- Saccular or fusiform
- **Giant CAA $>4x$ the size of the vessel or $>20mm$, rare with an incidence of 0.02%**



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Reference: Abou Sherif.S, Ozge Tok O, Taskoylu O, Goktekin O, Kilic I.D “Coronary Artery Aneurysms: A review of the epidemiology, pathophysiology, diagnosis, and treatment”. Front Cardiovasc Med. 2017 May 5;4:24.