Arteriovenous and Intercoronary Fistulae Presenting as Heart Failure in an Adult

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A 79-year-old man with prior aortic valve replacement was admitted to our hospital due to exertional angina. Single-photon emission computed tomography revealed ischemia at the territory of the left anterior descending artery (LAD) and the right coronary artery (RCA) (Figures 1 A and B). Coronary arteriography (Figures 1 C and D) and cardiac computed tomographic angiography (Figure 1 E), including volume rendering reconstruction (Figure 1 F), revealed an arteriovenous fistula between the proximal LAD and the pulmonary artery (PA). There was another fistula between the ostium of the RCA and the PA (Figures 1 G and H). This vessel gave origin to a small branch to the middle part of the LAD, before reaching the PA, thus forming a third, intercoronary fistula (Figures C, D and F).

Keywords

Heart Failure; Arteriovenous Fistula; Heart Valve Diseases/surgery.

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Conception and design of the research, Acquisition of data e Writing of the manuscript: Petrou E; Analysis and interpretation of the data: Petrou E, Girasis C; Critical revision of the manuscript for intellectual content: Girasis C.

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Study Association

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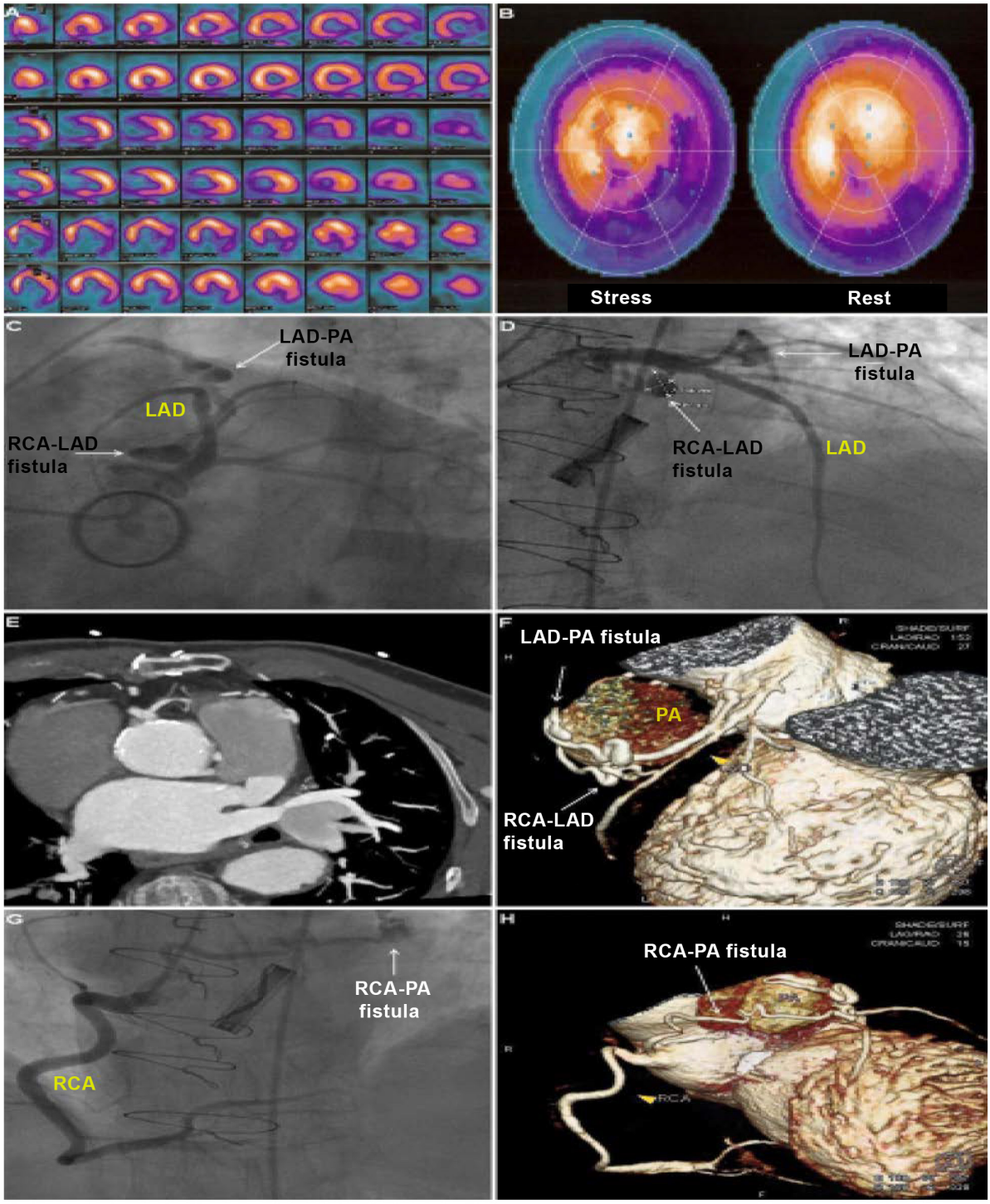
A
B
Stress
Rest
C
LAD-PA
fistula
LAD
RCA-LAD
fistula
D
LAD-PA
fistula
RCA-LAD
fistula
LAD
E
F
LAD-PA fistula
PA
RCA-LAD
fistula
G
RCA-PA
fistula
RCA
H
RCA-PA fistula
RCA