

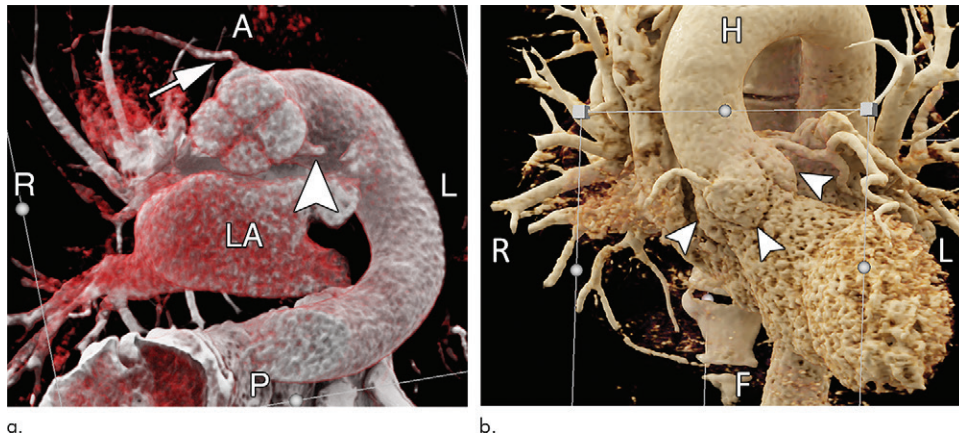
Quadricuspid Aortic Valve: Cinematic Rendering

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Conflicts of interest are listed at the end of this article.

Radiology 2018; 288:658 • <https://doi.org/10.1148/radiol.2018180379> • ©RSNA, 2018



A 43-year-old man with history of hypertension presented to the emergency department with chest pain and dyspnea. Serial troponin tests were negative. Electrocardiography (ECG)-gated CT angiography of the chest was performed per “triple rule-out” protocol. **(a)** Cinematic rendering of axial oblique intravenous contrast material-enhanced CT at the level of the aortic valve shows a quadricuspid aortic valve. The right coronary artery arises from the right coronary cusp (arrow) and the left main artery arises from the left coronary cusp (arrowhead). **(b)** Cinematic rendering of coronal oblique CT shows three cusps (right, left, and supranumery) (arrowheads). The noncoronary cusp is not visualized in this projection. Cinematic rendering is a recently described three-dimensional rendering technique that generates photorealistic images based on a new lighting model. Cinematic rendering improved depth perception and appreciation of the aortic valve leaflets. The patient was discharged home in stable condition and underwent outpatient cardiology evaluation. He did not experience any further episodes of chest pain or dyspnea and was asymptomatic with respect to his quadricuspid aortic valve. A = anterior, P = posterior, R = right, L = left, H = head, F = foot, LA = left atrium.

Disclosures of Conflicts of Interest: L.C.C. disclosed no relevant relationships. E.K.F. Activities related to the present article: disclosed no relevant relationships. Activities not related to the present article: Cofounder, HipGraphics;

Institutional grant support, Siemens Healthcare and GE Healthcare. Other relationships: disclosed no relevant relationships.