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Images in Cardiology: Right Atrial Diverticulum—A Rare Cause of Atrial Fibrillation

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FIG. 1 Right atrial compression from diverticulum.

A 45-year-old male presented with atrial fibrillation and chest pain. A two-dimensional echocardiogram

FIG. 2 Dynamic first phase contrast injection showing early transit in the diverticulum.

(TTE) showed an 8 cm × 10 cm extra cardiac mass compressing the right atrium. Cardiac magnetic resonance imaging (MRI) with dynamic first pass revealed a 10 cm × 9 cm mass arising from the right atrium (Figs. 1, 2).

Right atrial diverticulum is an outpouching arising from the right atrial free wall.¹ Patients present with palpitations, chest discomfort or shortness of breath. Differential diagnosis include congenital enlargement of right atrium and Ebstein's anomaly.¹ Treatment is surgical resection.

Reference

1. Chockalingam A, Alagesan R, Gnanavelu G, Dorairajan S, Subranian T. Right atrial aneurysm in adults: a report of three cases and review of literature. *Echocardiography* 2004;21(7):639–643

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