IMAGING IN CARDIOLOGY

A rare case of massive papillary fibroelastoma of the right ventricular free wall

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A 51-year-old previously healthy woman was referred to our institution with atypical chest pain. Physical examination and laboratory findings were normal. The electrocardiogram demonstrated sinus rhythm of 70 beats/min with a right bundle branch block. Routine chest X-ray showed calcifications projecting on the heart. Transthoracic echocardiography was hampered by a limited acoustic window. Cardiovascular magnetic resonance revealed a well-demarcated mass in the right ventricle in conjunction with the right ventricular free wall (Fig. 1). Dimensions were 9.5×4.5×4.5 cm. Computed tomography of the thorax demonstrated a densely calcified mass located in the right ventricle but showed no evidence of pulmonary embolism or intrapulmonary masses (Fig. 2a and b). Finally, transvenous biopsy of the tumour led to the histological diagnosis of papillary fibroelastoma (Fig. 2d). To our knowledge, this is the first well-documented case of a large calcified papillary fibroelastoma of the right ventricular free wall [1, 2].

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References

- Gowda RM, Khan IA, Nair CK, et al. Cardiac papillary fibroelastoma: a comprehensive analysis of 725 cases. Am Heart J. 2003;146:404–10.
- Sun JP, Asher CR, Yang XS, et al. Clinical and echocardiographic characteristics of papillary fibroelastomas: a retrospective and prospective study in 162 patients. Circulation. 2001;103:2687–93.

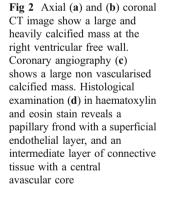


Fig. 1 Cardiovascular magnetic resonance (CMR) demonstrates a large mass in the right ventricle in conjunction with the right ventricular free wall. On cine-imaging, the mass exhibited a somewhat lower signal than the left ventricular myocardium (**a** and **b**). T1 (**c**) and T2 (**d**) weighted imaging demonstrate a heterogeneous signal from the tumour ranging from isointense to almost non-existing signal

