Journal of Cardiovascular Magnetic Resonance (2006)**9**,1 Copyright © 2006 Taylor & Francis Group, LLC

ISSN: 1097-6647 print / 1532-429X online DOI: 10.1080/10976640601015417



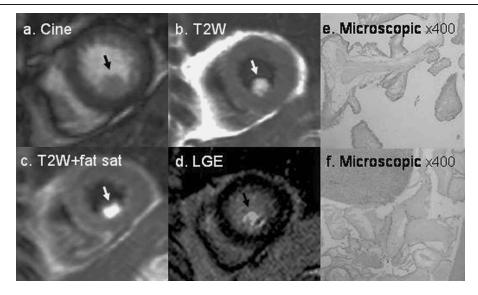
## Cardiac Fibroelastoma: Cardiovascular Magnetic Resonance Characteristics

Diego Perez de Arenaza,<sup>1</sup> Marcelo Pietrani,<sup>2</sup> James C. Moon, <sup>3</sup> Hernan Garcia Rivello,<sup>4</sup> Nicolas Coccaro,<sup>2</sup> Juan Krauss,<sup>1</sup> Arturo Cagide,<sup>1</sup> Ricardo Garcia Monaco<sup>2</sup>

Cardiology Department, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina<sup>1</sup>
Radiology Department, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina<sup>2</sup>
The Heart Hospital, London, UK<sup>3</sup>
Pathology Departments, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina<sup>4</sup>

A 59-year-old female was referred for exclusion of a cardiac source of embolization after a second cerebro-vascular accident (CVA) which had resulted in a right hemiparesis. She was an ex-smoker, had dyslipidemia, and had sustained an ischemic left cerebellar infarct 3 years previously. Cardiovascular examination and ECG were normal, as were routine blood tests. Computed tomography and MRI of the brain confirme the ischemic nature of both CVAs. A transesophageal echocar diogram suggested a hyperechogenic mass in the left ventricle, and cardiovascular magnetic resonance (CMR) was performed. Steady state free precession (SSFP) cine imaging showed a mo-

bile 1 cm mass attached to the inferior wall of the left ventricle that was hypointense compared to the myocardium. The mass was of high signal intensity on T2 weighted sequences, intermediate signal intensity on T1 weighting, but did not suppress with fat saturation. There was strong late enhancement after gadolinium. The CMR appearances suggested the diagnosis of fibro-elastoma which was subsequently confirme at open resection. The CMR tissue characterisation finding described are typical of fibroelastoma The tumor was resected because of the risk of further embolization, allowing confirmatio of the diagnosis.



**Figure 1.** Short axis views showing a) the tumor hypo intense on cine SSFP imaging, b) hyper intense on T2-weighted STIR, not suppressing with fat-saturations, c) and demonstrating late enhancement after gadolinium, d) Histology demonstrating tumor papillae composed of avascular elastin and collagen layers covered by endothelium,<sup>2</sup> e) and f).