

A Rare Case of Papillary Fibroelastoma Involving The Tricuspid Valve. A single Center experience over a period of 22 years (1999-2021)

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Abstract

Background and aim Papillary fibroelastoma (PFE) represents only 16% of the benign cardiac tumor and approximately 15% of these are located on tricuspid valve. Materials and Methods Over a period of 22 years (1999-2021) we observed 75 pts with cardiac tumors at our Center over 9650 pts operated on. Most of them were mixoma but in 10 cases histology showed a PFE. We describe a rare case (1/75 of cardiac tumors) of a tricuspid valve PFE in a 69-year-old patient. Trans-thoracic echocardiography demonstrated a mobile mass (20 x 10 mm), adhering to the atrial side of the septal leaflet of the tricuspid valve. In consideration of the mobility of the mass and the consequent high embolic risk, surgical removal was made. Patient underwent surgery through a median sternotomy on CPBP. A “gelatinous” mass adhering to the tricuspid leaflet was found and completely removed. The postoperative course was uneventful. The pathological evaluation confirmed the diagnosis of PFE. Conclusions PFE of the tricuspid valve is rare entities being in most cases found incidentally. In our experience the incidence of this tumor in this location is 1/10000 cases of cardiac surgery. Although most patients are asymptomatic, surgical treatment is nevertheless recommended in consideration of the high embolic risk.

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	n	%
Males	27	36
Females	48	64
Mean age (years)	63,2 ± 10,3	
Logistic EuroScore	5 ± 2,7	
Myxoma	55	73
Fibroelastoma	10	13
Malignacy	10	13
Mean CPBP time (min)	73 ± 53	
Mean Ao X clamp (min)	35 ± 18	
Complications		
Death (0-30 days)	1/75	1,3
Neurologic	5/75	6,5
Cardiac	3/75	3,9
Respiratory	4/75	5,2
Kidney	2/75	2,6



