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Helder Santos^{1*}, Hugo Miranda¹, Inês Almeida¹, Mariana Santos¹, Joana Chin¹, Lurdes Almeida¹

¹Cardiology Department, Centro Hospitalar Barreiro Montijo E.P.E, Barreiro, Portugal.

Correspondence to: Helder Santos, Cardiology Department, Centro Hospitalar Barreiro Montijo E.P.E, Barreiro, Portugal; E-mail: helder33689@gmail.com Received date: July 21, 2020; Accepted date: July 29, 2020; Published date: August 5, 2020

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Abbreviations:

LA: Left Atrium; LV: left Ventricle; RVOT: Right Ventricular Outflow Tract, BPAV: Bio-Prosthesis Aortic Valve, Ao: Aorta; PA: Pulmonary Artery

Clinical Image

А

A 74 year-old women with medical history of aortic replacement for severe aortic stenosis with a bio-prosthesis six years before and chronical kidney disease. Presented in the cardiology outpatient clinic complaining of dyspnea to minimal exertion, in class II, until them always in class I NYHA. She underwent a (TEE) that revealed a supra-annular bio-prosthesis aortic implantation with severe valve dehiscence between the III and I hours associated with rocking motion (Figure 2). The patient was admitted and referred to cardiac surgery, being submitted to bio-prosthesis replacement.

Transthoracic Echocardiogram (TTE), which showed a moderate

periprosthetic leak, suggesting an anterior prosthetic valve

dehiscence (Figure 1). Progressively increasing shortness

of breath, paroxysmal nocturnal dyspnea, fatigue, being

performed 4 months later a Transesophageal Echocardiogram

Prosthetic valve dehiscence is a rare complication, that can

BPA

Figure 1: Transthoracic echocardiogram; (A) Parasternal long-axis view showing a periprosthetic leak; (B) Apical 5 chambers view demonstrating a moderate periprosthetic leak.

BPAV

(1). Generally, valve dehiscence is associated to infective endocarditis, with local destruction and several complications that conferred a poor prognostic to these patients (2). Non-infectious dehiscence can have different etiologies, since other infections to surgery complications and occur in the first months to several years later. The presence of rocking of the prosthesis is usually associated with 40% dehiscence and severe regurgitation (3). In clinical practice TTE is the exam of choice for the evaluation of cardiac valves, nevertheless in some cases the acoustic shadowing produced by the protheses can underestimated the dehiscence and the protheses dysfunction, should always considered the clinical status.

in 0.1-1.3 % of patients undergoing aortic valve replacement

Disclosure statement:

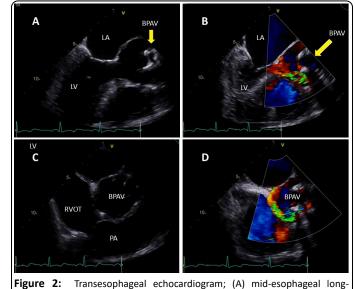
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axis demonstrating a supra-annular bio-prosthesis aortic implantation; (B)

mid-esophageal long-axis showing a supra-annular bio-prosthesis aortic implantation associated to periprosthetic leak; (C) mid-esophageal short-axis

view demonstrating a supra-annular bio-prosthesis aortic implantation; (D)

mid-esophageal short-axis view showing a severe valve dehiscence.

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