

Images in clinical medicine



Heart failure in a patient with Ebstein disease

Othmane Benmalle, Hatim Zahidi

Corresponding author: Othmane Benmalle, Department of Cardiology Ibn Rochd University Hospital, Casablanca, Morocco. o.benmalle@gmail.com

Received: 29 Jun 2020 - **Accepted:** 03 Jul 2020 - **Published:** 09 Jul 2020

Keywords: Ebstein disease, tricuspid valve, heart failure

Copyright: Othmane Benmalle et al. PAMJ Clinical Medicine (ISSN: 2707-2797). This is an Open Access article distributed under the terms of the Creative Commons Attribution International 4.0 License (<https://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Cite this article: Othmane Benmalle et al. Heart failure in a patient with Ebstein disease. PAMJ Clinical Medicine. 2020;3(96). 10.11604/pamj-cm.2020.3.96.24662

Available online at: <https://www.clinical-medicine.panafrican-med-journal.com//content/article/3/96/full>

Heart failure in a patient with Ebstein disease

Othmane Benmalle^{1,&}, Hatim Zahidi¹

¹Department of Cardiology Ibn Rochd University Hospital, Casablanca, Morocco

&Corresponding author

Othmane Benmalle, Department of Cardiology Ibn Rochd University Hospital, Casablanca, Morocco

Image in medicine

Ebstein's disease is a rare malformation of the tricuspid valve, accounting for approximately 1% of all cardiac malformations. It is an anomaly of the tricuspid valve where most often the 3 sheets are involved, to varying degrees, preventing the tricuspid valve from working properly. A 32 years old woman was addressed to the hospital for palpitations, chronic dyspnea, edema of the lower limbs, and cyanosis. She has no history, nor known cardiovascular risk factors. The initial somatic examination showed signs of right heart failure with blood pressure at 132/75 mmHg, and heart rate at 130 beat per minute. At cardiac auscultation, we noted a systolic murmur on all the precordium, maximum at the tricuspid focus, without signs of left heart failure. The electrocardiogram revealed a common flutter. The

echography showed an enormous dilation of the right cavities with atrialization of the ventricle by a low insertion of the tricuspid valve towards the right ventricle tip with offset between the mitral and tricuspid valve above 20mm. The Doppler revealed severe tricuspid regurgitation with a pulmonary hypertension estimated at 86 mmHg. After optimal treatment by converting enzyme

inhibitor, digitalics, and diuretics, the patient was referred for tricuspid valve replacement associated to an atrialized plication of the right ventricle. Ebstein's disease is a rare malformation of the tricuspid valve. The risk of sudden death remains high and unpredictable even in operated subjects with post-operative clinical improvement.



Figure 1: apical view showing a huge right atrial dilation with a low insertion of the tricuspid valve