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The Staphylococcus aureus cardiac snake

Gijs J. van Steenbergen \cdot Willemijn Tunnissen \cdot Naomi Timmermans \cdot Patrick Houthuizen \cdot Rene van den Broek \cdot Thomas van Brakel

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A 73-year-old male presented to the emergency department with delirium and fever (39.2°C) 1 week after receiving an intra-articular corticosteroid injection in his left glenohumeral joint to treat bursitis. Janeway lesions were noticed. The cardiologist was consulted and performed transthoracic and transoesophageal echocardiography, on which an impressive 8-cm snake-like vegetation was seen on the mitral valve with minor regurgitation (Fig. 1a; see also Video 1 in Electronic Supplementary Material). Blood cultures grew Staphylococcus aureus. Based on the modified Duke criteria (two major criteria and three minor criteria), definite endocarditis was diagnosed [1]. Given the size and mobility of the vegetation, emergent cardiac surgery was performed, in which the vegetation was removed en bloc and the mitral valve was replaced (Fig. 1b; see also Video 2 in Electronic Supplementary Material). The patient died on the 17th postoperative day as a result of uncontrolled infection. Swift diagnosis and treatment in patients

Video online The online version of this article contains two videos. The article and the video are available online (https://doi.org/10.1007/s12471-023-01790-3). The videos can be found in the article back matter as 'Electronic Supplementary Material'.

G. J. van Steenbergen (⋈) · W. Tunnissen · N. Timmermans · T. van Brakel
Department of Cardiothoracic Surgery, Catharina Hospital,
Eindhoven, The Netherlands
gijs.v.steenbergen@catharinaziekenhuis.nl

P. Houthuizen

Department of Cardiology, Catharina Hospital, Eindhoven, The Netherlands

R. van den Broek Department of Anaesthesiology, Catharina Hospital, Eindhoven, The Netherlands with (suspected) *S. aureus* endocarditis is crucial to improve outcomes.

Conflict of interest G.J. van Steenbergen, W. Tunnissen, N. Timmermans, P. Houthuizen, R. van den Broek and T. van Brakel declare that they have no competing interests.

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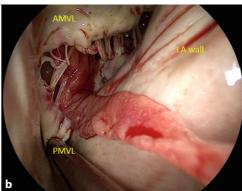


Fig. 1 Image of the vegetation on transoesophageal echocardiography moving freely between the left atrium and left ventricle (a, Video 1). Intraoperative inspection of the mitral valve revealed that the vegetation originated from the subvalvular apparatus of the mitral valve and had damaged seg-

ment P1 of the posterior leaflet (b). The vegetation was removed en bloc (Video 2) and due to the damaged posterior leaflet, the mitral valve was replaced with a biological prosthesis. *AMVL* anterior mitral valve leaflet, *PMVL* posterior mitral valve leaflet, *LA* left atrium

