

Title: Unexpected mechanism of mitral regurgitation in a patient post ALCAPA repair: added value of three-dimensional echocardiography Authors: Oleksandr Danylenko<sup>1</sup>, Elena Surkova<sup>1</sup>, Roxy Senior<sup>1</sup>, Wei Li<sup>1</sup> Institution: 1 - Royal Brompton and Harefield NHS Foundation Trust, Royal Brompton Hospital, London UK

Oleksandr Danylenko<sup>1</sup>, Elena Surkova<sup>1</sup>, Roxy Senior<sup>1</sup>, and Wei Li<sup>1</sup>

<sup>1</sup>Royal Brompton and Harefield NHS Foundation Trust

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## Abstract

Accurate assessment of aetiology of mitral regurgitation (MR) is one of the key steps in the decision-making process and further clinical management of patients with severe MR. Our clinical case illustrates the added value of three-dimensional echocardiography (3DE) in assessment of mitral valve morphology and identification of an unexpected mechanism of MR which was not previously diagnosed using conventional echocardiography. 3DE helped to choose appropriate management strategy in this patient. We believe our observations may have an important clinical impact, encouraging a wider use of 3DE in patients with complex mechanisms of MR

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