A 79-year-old lady was referred with CT scan (Fig. 1) and echocardiography (Fig. 2 and Movie 1) suggestive of left atrial myxoma. She had previously undergone left mastectomy for breast carcinoma.

She underwent excision of LA tumour, right lower lobectomy and post-operative chemotherapy as the histology confirmed right lower pulmonary vein metastatic breast cancer extending into LA.

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Fig. 1. Transverse CT scan showing the tumour originating from the right inferior pulmonary vein (PV) and occupying the whole of the left atrium (T). Note the left sided pleural effusion (E) and associated collapsed left lower lobe.

Fig. 2. Pre-operative trans-thoracic echocardiography (five chamber view) showing the tumour (T) extending from the pulmonary vein (PV) and the left atrium (LA) into the left ventricle (LV) by popping through the mitral valve (MV) with each atrial systole.