A 45-year-old man was referred to our department for acute respiratory distress. Upon arrival, chest x-ray showed an acute pulmonary oedema (figure 1) with a pulmonary tumour. Transthoracic echocardiography revealed a mass obstructing the majority of the left atrium and protruding into the left ventricle (figure 1). Eighteen years ago, the patient had been diagnosed with a grade II chondrosarcoma of the humerus, treated surgically. Three years ago, a local recurrence was again excised. This patient was recently awaiting a possible chemotherapy since the discovery of a pulmonary metastatic recurrence.

After intensive treatment with diuretics and non-invasive ventilation, a thoracic CT scan confirmed recurrence of the chondrosarcoma in the right inferior pulmonary lobe with complete thrombosis of the inferior pulmonary vein and invasion of the left atrium and ventricle (figure 1).

Surgical excision of the chondrosarcoma with pulmonary lobectomy and reconstruction of the left atrium was performed in emergency with success. Microscopic analysis revealed a well-differentiated chondrosarcoma, infiltrating the pulmonary parenchyma (figure 2). Tumour nodules were found in the vascular lumen (figure 2). Afterwards, the patient was treated with a new drug in evaluation for advanced chondrosarcoma, named Hedgehog pathway inhibitor vismodegib (GDC-0449).

The patient recovered well from surgery and was dismissed home 22 days after surgery. One month later, a control CT scan showed no cardiac recurrence of the chondrosarcoma.
CT scan showed no cardiac recurrence of the chondrosarcoma (figure 1) with the patient in functional class New York Heart Association II. This case illustrates the life-saving benefit of extensive surgical excision in a rare case of chondrosarcoma metastasis obstructing the left cardiac chambers.

Competing interests None.

Patient consent Obtained.

Figure 2  Gross examination—pulmonary parenchyma fixed with formalin (A) showing tumoural material (*) within vascular lumen (+) and infiltrating pulmonary parenchyma (†). Arrow indicates secondary bronchus. Histological examination—H&E staining sections (×10 magnification) (B) showing intravascular emboli made of tumoural nodules characteristic of a chondrosarcoma. (‡) indicates blood and (#) vascular wall: pulmonary artery.

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