Pericardial cysts are rare benign lesions usually located in the middle mediastinum. They can be asymptomatic or present with atypical chest pain, dyspnea, and persistent cough [1]. We report a rare case of pericardial cyst locating outside the mediastinum making the diagnosis a challenging one.

A 40-year-old woman with a history of asthma and recurrent pneumonias presented with a productive cough, pleuritic chest pain and fever. The patient reported prior episodes of pneumonias that resolved with antibiotics.

Physical exam findings included T 101°F, HR 118/min, BP 121/80 mm Hg, RR 20/min, SpO2 98% on room air and decreased breath sounds in right lower lung zones.

Laboratory results were notable for leukocytosis, negative viral respiratory panel, QuantiFERON gold, and HIV tests.

The patient then underwent VATS procedure which revealed a pericardial cyst which was resected successfully.

The incidence of pericardial cyst is 1 in 100,000 [1]. They are usually located in the right cardiophrenic triangle (75%), and less frequently in the left cardiophrenic triangle (22%) or other parts of the mediastinum [3]. Our case was unique because the pericardial cyst was found in the right major fissure outside the mediastinum. CT and echocardiography are the routine diagnostic modalities [1,2]. However, they are not the definitive diagnostic tests, such as was the case with our patient.

Pericardial cyst is a rare congenital anomaly and is in the differential diagnosis for an uncharacteristic cystic structure where diagnosis is unclear from CT and MRI. VATS should be considered as a diagnostic and therapeutic consideration.

References