

**Table S1** Final diagnosis of patients with non-malignant histology on thoracoscopy pleural biopsy (n=31)

Patient No.	Histopathological findings from MT	Microbiological diagnosis or additional biopsy performed	Final clinical diagnosis
1	Solitary fibrous tumour	None	Solitary fibrous tumour
2	Atypical mesothelial proliferation	VATS and pleural biopsy	Epithelioid mesothelioma
3	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
4	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
5	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
6	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
7	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
8	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
9	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
10	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
11	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
12	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
13	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
14	Granulomatous inflammation	M. tuberculosis isolated from pleural fluid/tissue	Tuberculous pleuritis
15	Granulomatous inflammation	None	Tuberculous pleuritis
16	Granulomatous inflammation	None	Tuberculous pleuritis
17	Non-specific pleuritis	Mediastinotomy and mediastinal mass biopsy	Diffuse large B cell lymphoma
18	Non-specific pleuritis	VATS and pleural biopsy	Diffuse large B cell lymphoma
19	Non-specific pleuritis	Image-guided biopsy of mediastinal mass	Diffuse large B cell lymphoma
20	Non-specific pleuritis	Transbronchial lung biopsy	Marginal zone lymphoma
21	Non-specific pleuritis	Image-guided lung biopsy	Small cell lung cancer
22	Non-specific pleuritis	None	Heart failure
23	Non-specific pleuritis	None	Cirrhosis and chronic kidney disease
24	Non-specific pleuritis	None	Uremic pleuritis
25	Non-specific pleuritis	None	Parapneumonic
26	Non-specific pleuritis	None	Dasatinib-induced pleural effusion
27	Non-specific pleuritis	None	Dasatinib-induced pleural effusion
28	Non-specific pleuritis	None	Chylothorax from sclerosing mesenteritis
29	Non-specific pleuritis	None	Idiopathic non-specific pleuritis
30	Non-specific pleuritis	None	Idiopathic non-specific pleuritis
31	Non-specific pleuritis	None	Idiopathic non-specific pleuritis

MT, medical thoracoscopy; VATS, video-assisted thoracoscopic surgery.