

Additional file 1: Supplementary material**Management and Outcomes of Pneumothorax in Adult Patients with Langerhans Cell
Histiocytosis.**

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Table S1. Lung HRCT lesions and pattern at the first episode of pneumothorax in PLCH patients

	Nodulo-cystic pattern	Cystic pattern	Cystic score Median, IQR	Predominant thick-walled cysts	Predominant thin-walled cysts	Predominant cysts >1cm	Presence of subpleural cysts
N=28	22	6	8.0 [IQR, 6-12]	14	14	6	27
Without recurrence N=16	12	4	8.5 [IQR, 6-12]	8	8	5	15
With recurrence N=12	10	2	7.5 [IQR, 7-10]	6	6	1	12

Abbreviation definitions: PLCH, pulmonary Langerhans cell histiocytosis; HRCT, high resolution computed tomography; IQR, interquartile range.

Table S2. Ipsilateral pneumothorax recurrences after surgical procedures performed in PLCH patients during the study period

		Pleurodesis									
		Mechanical		Chemical*		Both		Pleurectomy**		Total	
		n=9		n=23		n=6		n=12		n=50†	
All procedures	Resection [§] yes/no	7 (78%)	2 (22%)	9 (39%)	14 (61%)	3 (50%)	3 (50%)	5 (42%)	7 (58%)	24 (48%)	26 (52%)
	Recurrence, n (%)	2 (29%)	1 (50%)	4 (44%)	9 (64%)	0	0	1 (20%)	4 (57%)	7 (29%)	14 (54%)
	Total recurrences	3 (33%)		13 (56%)		0		5 (42%)		21 (42%)	
		n=5		n=21		n=0		n=8		n=34†	
VATS	Resection (yes/no)	4 (80%)	1 (20%)	8 (38%)	13 (62%)	NA	NA	3 (38%)	5 (62%)	15 (44%)	19 (56%)
	Recurrence, n (%)	2 (50%)	1 (100%)	3 (38%)	8 (62%)	NA	NA	1 (33%)	3 (60%)	6 (40%)	12 (63%)
	Total recurrences	3 (60%)		11 (52%)		NA		4 (50%)		18 (53%)	
		n=4		n=2		n=6		n=4		n=16	
TCT	Resection yes/no	3 (75%)	1 (25%)	1 (50%)	1 (50%)	3 (50%)	3 (50%)	2 (50%)	2 (50%)	9 (56%)	7 (44%)
	Recurrence, n (%)	0	0	1 (100%)	1 (100%)	0	0	0	1 (50%)	1 (11%)	2 (29%)
	Total recurrences	0		2 (100%)		0		1 (25%)		3 (19%) [¶]	

*chemical pleurodesis consisted of iodine or talc.

**apical pleurectomy whatever other associated procedure.

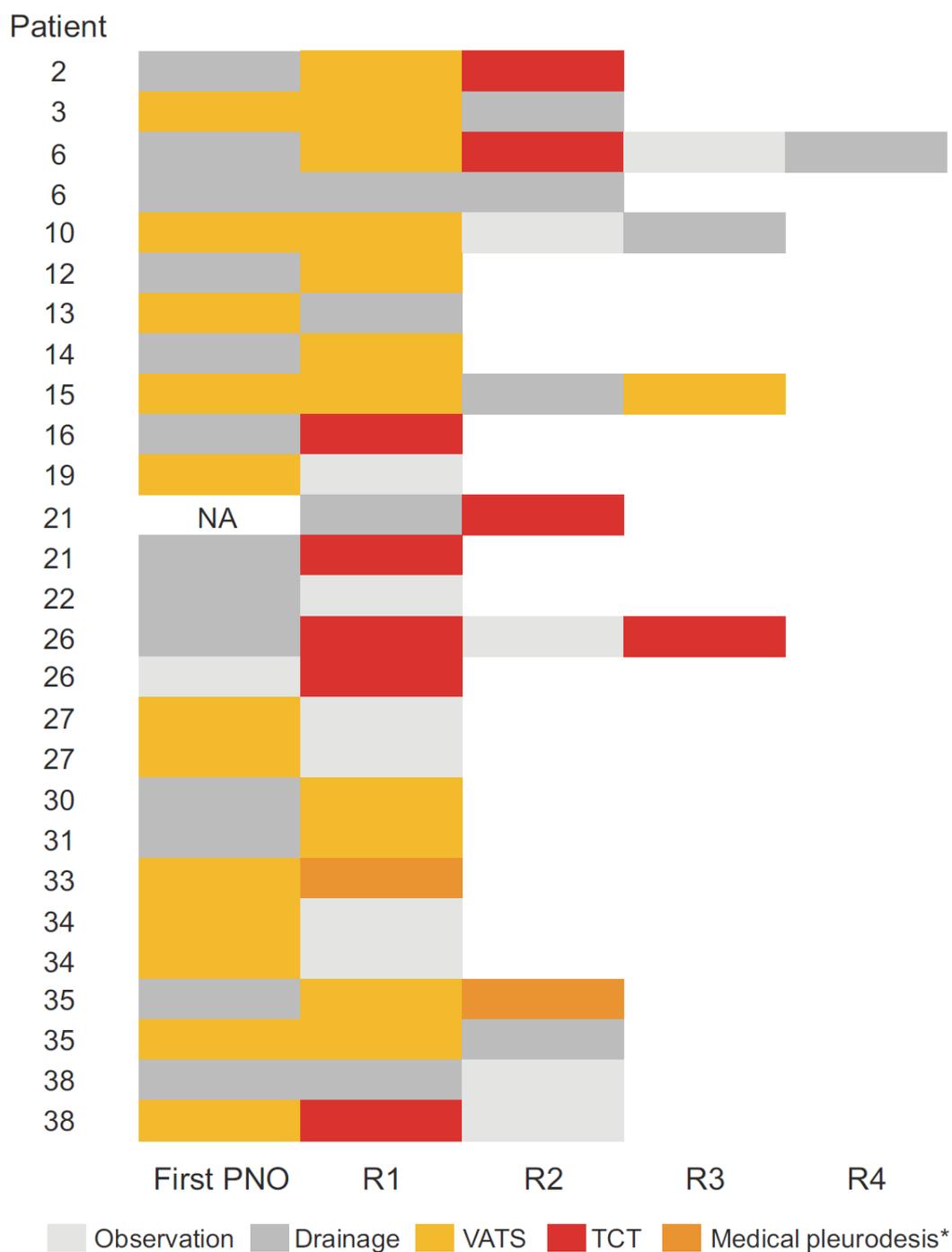
§resection of lung cysts/bullae.

†one patient did not have pleurodesis.

‡p=0.03 compared to VATS.

Abbreviation definitions: PLCH, pulmonary Langerhans cell histiocytosis; VATS, video-assisted thoracoscopy; TCT, thoracotomy.

Figure S1. Sequential treatments of the first pneumothorax and the 44 ipsilateral recurrences observed in 20 PLCH patients who experienced ipsilateral recurrence.



* Medical pleurodesis was performed through the drainage chest tube.

Abbreviations: PLCH, pulmonary Langerhans cell histiocytosis; NA, not available; PNO, pneumothorax; R, recurrence; VATS, video-assisted thoracoscopy; TCT, thoracotomy.