

Table S1 Details of bronchial occlusion of prolonged air leakage using customized endobronchial plugs

Patient number	Age (years)	Sex	Underlying disease of pulmonary	Days of chest drainage	Degree of collapsed lung	Target of bronchial occlusion	Number of bronchial occlusion procedures	Number of plugs	Diameter of the plugs (mm)	Air leaks after bronchial occlusion	Pleurodesis	Removal of the drainage tube	Days of air leak stopped	Recurrence
1	55	M	COPD, OPT	12	15%	RB4, 5	1	2	6, 6	Cessation	No	Success	5	No
2	49	M	COPD, pneumoconiosis	15	20%	LB7, 8, 9, 10	1	3	6, 7, 7	Cessation	No	Success	3	No
3	58	M	COPD, pneumoconiosis, OPT	67	20%	RB5	2	1	7	Cessation	No	Success	1	No
4	81	M	COPD	21	30%	RB1	1	1	4	Reduction	Yes	Success	4	No
5	62	M	COPD	38	50%	LB1+3	2	1	5	No change	No	Failure	–	–
6	67	M	COPD, OPT	25	30%	RB4	2	1	5	Reduction	Yes	Success	21	No
7	39	M	Pneumoconiosis	23	20%	RB5	1	1	6	Cessation	No	Success	5	Yes
8	58	M	COPD	133	30%	LB1+3, 4, 5	1	3	3, 3, 4	Cessation	No	Success	8	No
9	62	M	COPD	44	20%	RB2	1	1	4	Cessation	No	Success	0*	No
10	62	M	Pneumoconiosis	20	20%	RB4	1	1	7	Cessation	No	Success	2	Yes
11	74	M	COPD	52	50%	LB1+3, 2, 4	2	3	6, 7, 7	Cessation	No	Success	3	No
12	65	M	COPD	29	30%	RB6, 7, 8	3	3	7, 6, 7	Cessation	No	Success	0*	No
13	64	M	COPD	22	35%	LB1+3, 4, 5	3	3	4, 6, 6	Cessation	No	Success	10	No
14	79	M	COPD	40	30%	RB8, 9	1	1	10	No change	Yes	Failure	–	–
15	69	M	COPD	21	15%	RB1, 3	1	1	5	Reduction	Yes	Success	6	No
16	72	M	COPD	30	20%	LB1+3, 2, 4	3	3	5, 4, 6	Cessation	No	Success	0*	No
17	60	M	COPD	28	15%	RB1, 3	1	1	5	No change	No	Failure	–	–
18	64	M	COPD, pneumoconiosis	76	30%	RB6	1	1	6	Reduction	Yes	Success	12	No
19	69	M	COPD, bronchiectasis	58	15%	LB1+3, 2	1	3	5, 5, 6	Reduction	Yes	Success	14	No
20	66	M	COPD, OPT	22	85%	LB1+3, 2	1	2	5, 6	Reduction	Yes	Success	1	No
21	56	M	COPD, pneumoconiosis	24	10%	RB1, 2, 3	1	3	4, 5, 5	Cessation	No	Success	7	Yes
22	24	M	BO	22	10%	RB1, 2	2	2	5, 5	Cessation	No	Success	10	No
23	52	M	Pneumoconiosis	47	30%	RB1, 3	1	2	4, 6	Reduction	Yes	Success	6	No

*, air leak stopped immediately after bronchial occlusion. M, male; COPD, chronic obstructive pulmonary disease; OPT, old pulmonary tuberculosis; RB, right bronchus; LB, left bronchus; BO, bronchiolitis obliterans.