Table S1 Correlation coefficients (R) between extent of lesions ratio, vascular parameters, and lung function

Characteristics	VC%		FVC%		FEV1%		TLC%		DLco%	
	R	P-value	R	P-value	R	P-value	R	P-value	R	P-value
Total lung volume (mL)	0.40	<0.001	0.46	<0.001	0.45	<0.001	0.44	<0.001	0.05	0.613
Total lesion volume ratio (%)	−0.52	<0.001	−0.49	<0.001	−0.46	<0.001	−0.43	<0.001	−0.66	<0.001
Right upper lung lesion volume ratio (%)	−0.50	<0.001	−0.48	<0.001	−0.40	<0.001	−0.46	<0.001	−0.62	<0.001
Right middle lung lesion volume ratio (%)	−0.48	<0.001	−0.46	<0.001	−0.42	<0.001	−0.40	<0.001	−0.59	<0.001
Right lower lung lesion volume ratio (%)	−0.45	<0.001	−0.47	<0.001	−0.45	<0.001	−0.38	<0.001	−0.62	<0.001
Left upper lung lesion volume ratio (%)	−0.26	<0.001	−0.20	<0.001	−0.23	<0.001	−0.18	0.050	−0.56	<0.001
Left middle lunge lesion volume ratio (%)	−0.42	<0.001	−0.37	<0.001	−0.36	<0.001	−0.35	<0.001	−0.52	<0.001
Left lower lung lesion volume ratio (%)	−0.27	<0.001	−0.25	<0.001	−0.26	<0.001	−0.22	0.016	−0.46	<0.001
Pulmonary vascular indexes										
TPVV (mL)	0.34	<0.001	0.39	<0.001	0.38	<0.001	0.41	<0.001	0.32	<0.001
TPVV (%)	0.07	0.476	0.06	0.482	0.04	0.647	0.09	0.334	0.35	<0.001
Number of pulmonary vessel branches	0.23	<0.001	0.29	<0.001	0.28	<0.001	0.32	<0.001	0.3	<0.001
PAV (mL)	0.32	<0.001	0.37	<0.001	0.38	<0.001	0.38	<0.001	0.35	<0.001
PAV (%)	0	0.978	0.02	0.865	0.03	0.757	0	0.998	0.39	<0.001
Number of pulmonary artery branches	0.25	<0.001	0.30	<0.001	0.32	<0.001	0.34	<0.001	0.33	<0.001
PVV (mL)	0.33	<0.001	0.38	<0.001	0.35	<0.001	0.41	<0.001	0.26	<0.001
PVV (%)	0.12	0.183	0.12	0.171	0.10	0.285	0.15	0.103	0.29	<0.001
Number of pulmonary vein branches	0.22	<0.001	0.27	<0.001	0.25	<0.001	0.30	<0.001	0.29	<0.001

VC%, percentage of predicted vital capacity; FVC%, percentage of predicted forced vital capacity; FEV1%, percentage of predicted forced expiratory volume in 1 second; TLC%, percentage of predicted total lung capacity; DLco%, percentage of predicted diffusing lung capacity for carbon monoxide. TPVV, total pulmonary vessel volume; PAV, pulmonary artery volume; PVV, pulmonary vein volume. Correlations with statistical significance are highlighted in bold.

Table S2 Correlation coefficients (R) between changes in extent of lung lesion ratio, vascular parameters, and lung function

Characteristics	VC%		FVC%		FEV1%		TLC%		DLco%	
	R	P-value	R	P-value	R	P-value	R	P-value	R	P-value
Changes in total lung volume (mL)	0.46	<0.001	0.40	<0.001	0.46	<0.001	0.31	<0.001	0.36	0.613
Changes in extent of lung lesion ratio (%)										
Total lesion volume ratio (%)	−0.51	<0.001	−0.54	<0.001	−0.49	<0.001	−0.38	<0.001	−0.57	<0.001
Right upper lung lesion volume ratio (%)	−0.54	<0.001	−0.59	<0.001	−0.62	<0.001	−0.45	<0.001	−0.53	<0.001
Right middle lung lesion volume ratio (%)	−0.46	<0.001	−0.44	<0.001	−0.45	<0.001	−0.34	<0.001	−0.50	<0.001
Right lower lung lesion volume ratio (%)	−0.29	<0.001	−0.32	<0.001	−0.23	<0.001	−0.28	<0.001	−0.37	<0.001
Left upper lung lesion volume ratio (%)	−0.55	<0.001	−0.54	<0.001	−0.50	<0.001	−0.27	<0.001	−0.48	<0.001
Left middle lunge lesion volume ratio (%)	−0.28	<0.001	−0.32	<0.001	−0.28	<0.001	−0.17	0.056	−0.27	<0.001
Left lower lung lesion volume ratio (%)	−0.13	0.159	−0.13	0.169	−0.09	0.321	−0.02	0.862	−0.18	0.046
Changes in pulmonary vascular indexes										
TPVV (mL)	0.74	<0.001	0.61	<0.001	0.64	<0.001	0.43	<0.001	0.53	<0.001
TPVV (%)	0.61	<0.001	0.51	<0.001	0.49	<0.001	0.34	<0.001	0.45	<0.001
Number of pulmonary vessel branches	0.69	<0.001	0.55	<0.001	0.61	<0.001	0.41	<0.001	0.44	<0.001
PAV (mL)	0.67	<0.001	0.57	<0.001	0.58	<0.001	0.40	<0.001	0.50	<0.001
PAV (%)	0.56	<0.001	0.49	<0.001	0.42	<0.001	0.31	<0.001	0.44	<0.001
Number of pulmonary artery branches	0.59	<0.001	0.44	<0.001	0.54	<0.001	0.31	<0.001	0.27	<0.001
PVV (mL)	0.71	<0.001	0.58	<0.001	0.62	<0.001	0.41	<0.001	0.51	<0.001
PVV (%)	0.62	<0.001	0.52	<0.001	0.52	<0.001	0.37	<0.001	0.44	<0.001
Number of pulmonary vein branches	0.66	<0.001	0.56	<0.001	0.61	<0.001	0.41	<0.001	0.45	<0.001

VC%, percentage of predicted vital capacity; FVC%, percentage of predicted forced vital capacity; FEV1%, percentage of predicted forced expiratory volume in 1 second; TLC%, percentage of predicted total lung capacity; DLco%, percentage of predicted diffusing lung capacity for carbon monoxide. TPVV, total pulmonary vessel volume; PAV, pulmonary artery volume; PVV, pulmonary vein volume. Correlations with statistical significance are highlighted in bold.