

Table S1 Clinical and radiological characteristics of patients in the training and validation datasets

Patient characteristics	Training dataset (n=102)	Validation dataset (n=44)	P value
Demographic data			
Sex (female/male)	15/87	9/35	0.391
Age, years, mean $\pm$ SD	68.9 $\pm$ 9.3	66.7 $\pm$ 9.7	0.225
Radiological factors			
UIP pattern (typical/probable)	84/18	38/6	0.550
AE type (peripheral/multifocal/diffuse)	28/58/16	13/24/7	0.962
mPA/AO ratio (mean $\pm$ SD)	0.849 $\pm$ 0.156	0.847 $\pm$ 0.112	0.923
Other clinical data			
BMI, kg/m ² , mean $\pm$ SD	22.87 $\pm$ 3.58	23.00 $\pm$ 3.98	0.426
Smoking, n (%)	68 (66.67)	28 (63.64)	0.723
Quitting smoking, n (%)	61 (59.80)	21 (47.73)	0.177
Quitting time, mean $\pm$ SD	5.53 $\pm$ 9.26	2.75 $\pm$ 5.24	0.144
Dust exposure history, n (%)	19 (18.63)	7 (15.91)	0.694
Cough, n (%)	99 (97.06)	42 (95.45)	0.638
Expectoration, n (%)	67 (65.69)	21 (47.73)	0.042
Dyspnea, n (%)	86 (84.31)	35 (79.55)	0.483
Velcro rales, n (%)	90 (88.24)	36 (81.82)	0.301
CRP, mg/dL, mean $\pm$ SD	30.67 $\pm$ 42.76	28.25 $\pm$ 40.24	0.521
Antifibrotic drug use, n (%)			0.584
No use	62 (60.78)	31 (70.45)	0.311
Pirfenidone	36 (35.29)	12 (27.27)	
Nintedanib	4 (3.92)	1 (2.27)	
Immunosuppressant use, n (%)			0.311
No use	42 (41.18)	16 (36.36)	
Methandrostenolone	48 (47.06)	24 (54.55)	
Prednisone	12 (11.76)	3 (6.82)	
FVC, % predicted, mean $\pm$ SD	71.64 $\pm$ 17.91	78.85 $\pm$ 23.58	0.286
FEV1, % predicted, mean $\pm$ SD	79.32 $\pm$ 18.01	89.06 $\pm$ 29.68	0.229
FEV1/FVC, %, mean $\pm$ SD	84.15 $\pm$ 10.93	87.11 $\pm$ 7.28	0.393
DLCO, % predicted, mean $\pm$ SD	52.09 $\pm$ 14.08	54.94 $\pm$ 24.39	0.978

UIP, usual interstitial pneumonia; AE, acute exacerbation; mPA, main pulmonary artery; AO, aorta; BMI, body mass index; CRP, C-reactive protein; FVC, forced vital capacity; FEV1, forced expiratory volume in one second; DLCO, diffusion capacity of the lung for carbon monoxide.