#### 1 Supplementary Table 1 Diagnostic ability to identify desaturation during the

#### **6MWT in IPF patients**

	AUC	Sensitivity	Specificity	Cut-off value
1STST nadir SpO2	0.92 (0.78-0.97)	83%	100%	89%
FVC % predicted	0.76 (0.61–0.87)	63%	88%	82.7
DLCO % predicted	0.91 (0.80-0.96)	83%	92%	65.6
PaO2 at rest	0.64 (0.46-0.78)	56%	82%	86.5 Torr

PaO2, arterial partial pressure of oxygen; 1STST, 1-min sit-to-stand test; 6MWT, 6-min walk test;

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#### Supplementary Table 2 Diagnostic ability to identify desaturation during the

#### **6MWT in good PS**

	AUC (95% CI)	Sensitivity	Specificity	Cut-off value
1STST nadir SpO2	0.93 (0.83-0.97)	90%	90%	92%
FVC % predicted	0.70 (0.58-0.79)	62%	79%	80.1
DLCO % predicted	0.84 (0.74-0.90)	76%	82%	66.0
PaO2 at rest	0.57 (0.43-0.70)	64%	66%	89.0 Torr

PaO2, arterial partial pressure of oxygen; 1STST, 1-min sit-to-stand test; 6MWT, 6-min walk test;

<sup>4</sup> FVC, forced vital capacity; DLCO, diffusion lung capacity for carbon monoxide; AUC, area under

<sup>5</sup> the curve; CI, confidence interval.

FVC, forced vital capacity; DLCO, diffusion lung capacity for carbon monoxide; AUC, area under the curve; CI, confidence interval.

#### Supplementary Table 3 Diagnostic ability to identify desaturation during the

#### 6MWT in good mMRC

	AUC (95% CI)	Sensitivity	Specificity	Cut-off value
1STST nadir SpO2	0.90 (0.75-0.97)	85%	91%	92%
FVC % predicted	0.68 (0.54-0.80)	58%	82%	80.1
DLCO % predicted	0.86 (0.74-0.92)	69%	89%	61.3
PaO2 at rest	0.62 (0.44-0.78)	60%	83%	86.5 Torr

PaO2, arterial partial pressure of oxygen; 1STST, 1-min sit-to-stand test; 6MWT, 6-min walk test;

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## Supplementary Table 4 Definition of the Japanese severity staging systems for

## Idiopathic interstitial pneumonias

SpO2 < 90% at the end of 6MWT	Stage	
No	I	
Yes	I	
No	II	
Yes	III	
No	III	
Yes	IV	
No	IV	
Yes	IV	
	No Yes No Yes No Yes No Yos	

PaO2, arterial partial pressure of oxygen; SpO2, pulse oxygen saturation; 6MWT, 6-min walk test.

FVC, forced vital capacity; DLCO, diffusion lung capacity for carbon monoxide; AUC, area under

the curve; CI, confidence interval.