

Electronic supplementary material

ESM 4. Lung functioning and six-minute-walking-exercise

	PF-ILD (n = 49)	nPF-ILD (n = 48)	p ^a	Control (n = 30)	p ^b
Body plethysmography and CO-diffusion-tests					
TLC [L]	4.93 ± 1.87	5.38 ± 1.25	n.s.	6.45 ± 1.34	<0.001
TLC% [%]	78.2 ± 28.7	87.2 ± 15.9	n.s.	103.6 ± 17.2	<0.001
VC [L]	2.46 ± 1.05	3.03 ± 0.90	<0.01	3.78 ± 0.91	<0.001
VC [%]	66.9 ± 23.5	83.3 ± 31.1	<0.01	98.5 ± 16.4	<0.001
RV% [%]	100.7 ± 62.4	108.8 ± 31.5	n.s.	122.3 ± 28.6	n.s.
FEV1 [L/sec]	2.00 ± .80	2.36 ± 0.71	n.s.	3.09 ± 0.73	<0.001
FEV1% [%]	69.3 ± 24.4	75.9 ± 17.7	<0.05	98.7 ± 13.6	<0.001
FEV1/VC [%]	84.4 ± 11.1	80.8 ± 7.3	n.s.	85.4 ± 7.5	n.s.
DLCO/SB% [%]	25.8 ± 15.9	44.0 ± 16.9	<0.001	70.0 ± 13.1	<0.001
DLCO/VA% [%]	39.3 ± 20.5	60.8 ± 19.8	<0.001	77.6 ± 17.3	<0.001
O ₂ -Support (%)	12 (31.6%)	2 (4.4%)	<0.01	0 (0%)	<0.001
O ₂ -Amount/min [L]	0.81 ± 1.44	0.13 ± 0.66	<0.01	0 ± 0	<0.001
Six-minute walk test					
Pre-6MWT examinations					
Pulse rate [1/min]	75 ± 16	82 ± 14	n.s.	71 ± 12	<0.05
Breathing rate [1/min]	20 ± 4	18 ± 3	n.s.	15 ± 3	<0.001
Borg-Scale: Dyspnoea	1.82 ± 1.71	1.45 ± 1.54	n.s.	0.53 ± 0.70	<0.05
Borg-Scale: Exhaustion	2.35 ± 2.26	1.48 ± 1.71	n.s.	1.11 ± 2.11	n.s.
pH	7.448 ± 0.036	7.454 ± 0.035	n.s.	7.449 ± 0.030	n.s.
pCO ₂ [mmHg]	34.225 ± 4.880	33.545 ± 4.165	n.s.	33.358 ± 3.800	n.s.
pO ₂ [mmHg]	70.068 ± 13.401	76.073 ± 11.584	<0.05	79.384 ± 9.576	<0.05
6MWT distance [m]	275 ± 178	434 ± 94	<0.001	506 ± 97	<0.001
Post-6MWT examinations					
Pulse rate [1/min]	92 ± 19	101 ± 17	<0.05	95 ± 20	n.s.
Breathing rate [1/min]	27 ± 8	24 ± 5	n.s.	20 ± 3	<0.001
Borg-Scale: Dyspnoea	4.46 ± 1.60	3.16 ± 2.23	<0.01	1.21 ± 1.13	<0.001
Borg-Scale: Exhaustion	3.85 ± 2.18	2.87 ± 2.29	n.s.	1.42 ± 2.17	<0.01
pH	7.433 ± 0.044	7.430 ± 0.040	n.s.	7.447 ± 0.043	n.s.
pCO ₂ [mmHg]	33.907 ± 5.297	34.963 ± 4.710	n.s.	33.206 ± 3.677	n.s.
pO ₂ [mmHg]	73.270 ± 20.412	76.918 ± 13.318	n.s.	89.628 ± 10.109	<0.01
pO ₂ -deviation pre/post [mmHg]	-0.941 ± 19.583	1.677 ± 9.207	n.s.	10.244 ± 11.067	<0.05

Notes. ^a PF-ILD vs. nPF-ILD; ^b overall intergroup difference. Abbreviations amended with “%” represent percentage of the predicted value. PF-ILD: progressive-fibrosing interstitial lung disease; nPF-ILD: non-progressive-fibrosing interstitial lung disease; TLC: total lung capacity; VC: vital capacity; RV: residual volume; FEV1: forced expiratory volume; FEV1/VC: Tiffeneau index; CO: carbon monoxide; DLCO/SB: CO-diffusion capacity; DLCO/VA: CO-diffusion transfer coefficient; 6MWT: Six-minute walk test; pCO₂: carbon dioxide partial pressure; pO₂: oxygen partial pressure.