

Supplementary table 1 Demographic, right heart catheter, lung function and CT vessel data

Variables Units	No PH No lung disease (n=15)	No PH Lung disease (n=17) (COPD n=10, ILD n=7)	All PH (n=90)	PH COPD and or emphysema (n=44)	PH ILD (n=46)
Demographics					
Age (years)	63 (11)	65 (10)	66 (13)	66 (12)	66 (14)
Sex (M/F) %	76% F	87% F	44% F	55% F	55% F
WHO functional class (I/II/III/IV) £	I (2) II (8) III (5) IV (0)	I (0) II (6) III (10) IV (1)	I (1) II (7) III (78) IV (14)	I (0) II (3) III (34) IV (7)	I (1) II (4) III (34) IV (7) £
Right heart catheter data					
mRAP (mmHg)	6 (3)	4 (3) #	8 (5)	9 (6) ^	7 (5)
mPAP (mmHg)	17 (2) #	17 (3) #	36 (13)	39 (14) *^	34 (12)*^
PAWP (mmHg)	9 (3) #	8 (4) #	12 (5)	13 (6) *^	11 (4)
Cardiac_output (L/min)	5.24 (1.80)	4.74 (1.67)	4.88 (1.43)	5.03 (1.57)	4.73 (1.28)
Cardiac index (CI) (L/min/m ²)	3.07 (0.93)	2.70 (0.79)	2.67 (0.80)	2.79 (0.85)	2.56 (0.74)
PVR (mmHg)	130 (39) #	181 (104) #	457 (344)	482 (382) *^	434 (307) *^
SaO ₂ (%)	96 (2)	96 (2)	95 (3)	94 (3)	95 (3)
SVO ₂ (%)	73 (5)	69 (4)	68 (9)	67 (10)	68 (7)
ISWT - distance (m)	296 (162) #	280 (177) #	169 (141)	158 (129) *^	181 (151)
Pulmonary Function Tests (PFTs)					
Percent predicted FEV ¹ (%)	90 (13) #	80 (14) #	63 (20)	64 (22) *^	62 (18) *^
Percent predicted FVC (%)	94 (13) \$	86 (20) \$	75 (23)	87 (22) \$	63 (20) *#^
FEV ¹ /FVC ratio	75 (3) #	74 (11) #	67 (15)	57 (14) *\$^	77 (9) #
Percent predicted TLCO (%)	71 (17.5) #	63.3 (27.6) #	32.7 (21.5)	34.7 (22.6) *	30.6 (20.2) *^
CT vessel parameters					
Pulmonary vessels <0.8mm (ml/m ²)	9.4 (3.4) \$	8.7 (2.8)\$	7.4 (3.8)	9.2 (3.5) \$	5.6 (3.1) *#^
Pulmonary vessels <1.2mm (ml/m ²)	19.8 (7.2) \$	18.4 (5.8) \$	15.7 (7.6)	19.6 (7) \$	11.8 (6.1) *#^
Pulmonary vessels <1.6mm (ml/m ²)	30.3 (10.7) \$	28.3 (8.1) \$	24.4 (11.2)	30.4 (10.1) \$	18.6 (9.1) *#^
Lung volume (ml/m ²)	2371 (604) \$	2243 (495) \$	2165 (738)	2618 (625) \$	1720 (557) *#^
Total vessel volume (ml/m ²)	75 (24) \$	69 (15) \$	68 (25)	84 (19) \$	53 (20) *#^

*Significant difference compared to no PH and no lung disease

#Significant difference compared to PH-COPD/emphysema.

\$Significant difference compared to PH-ILDs.

^Significant difference compared to lung disease and no PH

£ 4 cases missing WHO functional class measurements

*WHO=world health organisation, mRAP=mean right atrial pressure, mPAP=mean pulmonary arterial pressure, PAWP=pulmonary artery wedge pressure, PVR=pulmonary vascular resistance, SaO₂=Oxygen saturation, SVO₂=Mixed

venous oxygen saturation, FEV^1 =Forced Expiratory Volume in 1 second, FVC=Forced Vital Capacity, TLCO=transfer capacity of the lung for the uptake of carbon monoxide (CO).