Table S2. Associations of measurements from medical history, echocardiography, right heart catheter, lung function testing and cardiopulmonary exercise testing with mortality.

Parameter	N	Hazard Ratio (95% Confidence Interval)
Medical history		
Dyslipidemia	178	1.78 (1.04; 3.04)*
Diabetes mellitus	178	0.70 (0.40; 1.23)
Arterial hypertension	178	1.34 (0.80; 2.26)
Atrial fibrillation	178	1.30 (0.71; 2.36)
Chronic heart failure	178	1.68 (0.90; 3.14)
PAOD	178	1.67 (0.60; 4.62)
Renal insufficiency	178	1.49 (0.84; 2.66)
Pulmonary hypertension	178	3.78 (2.29; 6.20)*
Cancer	178	0.64 (0.28; 1.43)
Coronary artery disease	178	1.28 (0.74; 2.22)
COPD/Asthma	178	1.21 (0.66; 2.24)
Venous thromboembolic disease	178	1.13 (0.50; 2.53)
Cerebrovascular disease	178	0.68 (0.24; 1.89)
Charlson index	178	1.02 (0.91; 1.14)
GAP-score	142	1.70 (1.26; 2.30)
Echocardiography		
LVEF (%, reduced vs. normal)	146	1.64 (0.89; 3.01)
TAPSE (mm)	144	0.88 (0.83; 0.93)*
TI	164	1.71 (0.90; 3.26)
Estimated PAPsys (mmHg)	124	1.05 (1.03; 1.07)*
Right heart catheter		
RAP mean (mmHg)	82	1.05 (0.99; 1.12)
PAPmean (mmHg)	84	1.02 (0.99; 1.04)
PAPmean > 20 mmHg & PVR ≥ 3	84	1.57 (0.70; 3.55)
PAWP (mmHg)	84	1.01 (0.95; 1.06)
PVR (WU)	82	1.05 (0.99; 1.11)
CO/Thermo (l)	85	0.86 (0.67; 1.12)
CI (l/min/m²)	85	0.81 (0.49; 1.34)
Lung function testing		
TLC (%pred)	174	0.991 (0.977; 1.004)
reduced, < 80 %	174	1.06 (0.64; 1.76)
VC (% pred.)	173	0.991 (0.978; 1.003)
reduced, < 80 %	173	1.15 (0.70; 1.91)
FVC (% pred.)	174	0.990 (0.978; 1.003)
FEV1 (% pred.)	174	0.985 (0.973; 0.998)*
FEV1/FVC (%)	174	0.989 (0.970; 1.008)
RV (% pred.)	174	0.996 (0.987; 1.004)
RV/TLC (% pred.)	173	0.998 (0.978; 1.018)
DLCO (% pred.)	142	0.978 (0.960; 0.997)*
Patients with value </= 60 % pp	142	1.65 (0.69; 3.94)
KCO (% pred.)	147	0.962 (0.947; 0.977)*
Cardiopulmonary exercise testing		
Max. Performance Watt	178	0.969 (0.958; 0.980)*
Max. Performance (% pred.)	178	0.966 (0.954; 0.978)*
VO_2 peak (ml/min/Kg)	178	0.78 (0.72; 0.84)*
VO_2 peak (% pred.)	178	0.942 (0.925; 0.958)*
VO_2 @ AT (% share on VO_2 peak pred.)	168	0.960 (0.940; 0.980)*

pathological, < 40 %	168	3.05 (1.73; 5.37)*
VO_2/HR max. (ml/beat)	178	0.76 (0.69; 0.84)*
VÉ/VCO_2 slope	178	1.043 (1.028; 1.059)*
pathological, > 34	178	1.77 (1.02; 3.06)*
VÉ/VCO_2 rest	174	1.056 (1.030; 1.081)*
VÉ/VCO_2 @ AT	163	1.064 (1.042; 1.087)*
$petCO_2$ rest (mmHg)	169	0.939 (0.894; 0.987)*
$petCO_2$ @ AT (mmHg)	162	0.920 (0.883; 0.958)*
$AaDO_2$ max (mmHg)	135	1.048 (1.028; 1.069)*
pathological, > 35	135	4.02 (0.92; 17.66)
$PaetCO_2$ rest (mmHg)	144	1.096 (1.046; 1.149)*
$PaetCO_2$ max (mmHg)	129	1.096 (1.050; 1.146)*
pathological, > 6	129	2.81 (1.14; 6.89)*
VÉ/MVV (%)	174	1.004 (0.992; 1.017)
pathological, > 80 %	174	0.82 (0.42; 1.59)
IC max - IC rest (l)	150	1.14 (0.65; 2.00)
pathological, < 0	150	1.10 (0.63; 1.90)
EELV max - EELF rest (l)	148	1.44 (0.68; 3.07)
pathological, > 0	148	1.37 (0.77; 2.44)
BF rest (/min)	178	1.06 (1.03; 1.10)*
BF max (/min)	178	1.01 (0.98; 1.03)
VT rest (l)	178	0.82 (0.34; 1.95)
VT max (l)	178	0.62 (0.36; 1.06)
VÉ max (l/min)	178	0.979 (0.962; 0.996)
HR rest (bpm)	178	0.999 (0.984; 1.013)
HR max (bpm)	178	0.982 (0.971; 0.994)*
SysBP rest (mmHg)	168	1.014 (0.998; 1.030)
SysBP max (mmHg)	175	0.990 (0.981; 0.998)
DiasBP rest (mmHg)	171	1.020 (0.999; 1.041)
DiasBP max (mmHg)	181	1.002 (0.988; 1.016)

Hazard ratios derived from Cox regression adjusted for age, sex and body mass index. *$p < 0.05$. PAOD: peripheral arterial occlusive disease; COPD: chronic obstructive pulmonary disease; LVEF: left vetricuar ejection fraction (%); TAPSE: tricuspid annular plane systolic excursion (mm), TI: tricuspid insufficiency; RAP: right arterial pressure; PAP: pulmonary artery pressure (mmHg); PAWP: pulmonary artery wedge pressure (mmHg); PVR: pulmonal vascular resistance (WU); CO: cardiac output (l); CI: cardiac index (l/min/m^2); TLC: total lung capacity (l); VC: vital capacity (l); FVC: forced vital capacity (l); FEV1: forced expiratory volume in 1 second (l); RV: residual volume (l); DLCO: diffusion capacity (mmol/min/kPa); KCO: global diffusion capacity (mmol/min/kPa/l); VO_2: oxygen uptake (ml); AT: anaerobic threshold; HR: heart rate (bpm); VO_2/HR: oxygen pulse (ml/beat); VÉ/VCO_2: breathing efficacy; $petCO_2$: end tidal carbon dioxide (mmHg); $AaDO_2$: alveolar arterial oxygen difference (mmHg); $PaetCO_2$: gradient between $petCO_2$ and arterial CO_2 levels (mmHg); VÉ/MVV: minute ventilation/maximum voluntary ventilation (%); IC: inspiratory capacity (l); EELV: endexpiratory lung volume (l); BF: breathing frequency (/min); VÉ: minute ventilation (l/min); VT: breathing volume (l); sysBP: systolic blood pressure (mmHg); diasBP: diastolic blood pressure (mmHg).