

Supplements

Table S1: Formulas

Variable	Abbreviation (unit)	Formula
Diastolic pulmonary gradient	DPG (mmHg)	$PAD - PAWP$
Right ventricular stroke work index	RVSWI (mmHg.L/m ²)	$(\text{mean PAP} - \text{RAP}) \times (\text{CI} / \text{HR})$
Pulmonary artery pulsatility index	PAPi	$(\text{PAS} - \text{PAD}) / \text{RAP}$
Pulmonary vascular resistance	PVR (Wood unit)	$(\text{mean PAP} - \text{PAWP}) / \text{CO}$
Pulmonary artery compliance	PAC (mL/mmHg)	$[(\text{CO} / \text{HR}) / (\text{PAS} - \text{PAD})] \times 1000$
Pulmonary arterial elastance	Ea (mmHg/mL)	$[\text{PAS} / (\text{CO} / \text{HR})] / 1000$

Table S2: Baseline characteristics of LVAD subjects

		Value (median, IQ)
Time intervals (days)	LVAD-RHC	305 (233-399)
	LVAD-CPET	244 (222-332)
	RHC-CPET	45 (26-116)
LVAD parameters	Speed (rpm)	2622 (2540-2760)
	Pump flow (rest) (L/min)	4.4 (4-5)
	Pump flow (exercise) (L/min)	5.9 (4.9-6.8)
Heart failure history	Non-ischemic	8 (67%)
	Ischemic	4 (33%)
	Duration (months)	12 (6-84)

Table S3: Hemodynamics pre- and post-LVAD insertion (paired comparison)

	Pre-LVAD (n)	Post-LVAD (n)	p
RAP (mmHg)	12.5 (6.5-18) (12)	3 (1.5-6.5) (12)	0.01
Mean PAP (mmHg)	28 (25-40) (12)	16 (14-18) (12)	0.0022
PAWP (mmHg)	19 (17-26) (12)	6 (4-16) (11)	0.0033
CO (L/min)	3.9 (3.4, 4.4) (12)	4.9 (4.5, 5.4) (12)	0.0076
PAPi	2.1 (1.4, 2.9) (12)	4 (2.7, 11.4) (12)	0.02
RVSWI (mmHg.L/m²)	0.4 (0.2, 0.6) (12)	0.3 (0.3, 0.4) (12)	0.3
RAP:PAWP	0.6 (0.3-0.9) (12)	0.5 (0.3-0.8) (11)	0.9
PVR (Wood units)	2.2 (1.7, 4.3) (12)	2.2 (1.2, 2.5) (11)	0.03
PAC (mL/mmHg)	2.4 (1.5, 3) (12)	3.9 (2.9, 4.7) (12)	0.0022
Ea (mmHg/mL)	0.9 (0.7, 1.6) (12)	0.5 (0.4, 0.5) (12)	0.0025

Table S4: Laboratory values of LVAD subjects within two weeks of right heart catheterization

Variable	Median (25th-75th Interquartile range)
BUN (mg/dL)	16 (14-20)
Creatinine (mg/dL)	1 (1-1.6)
Pre-albumin (mg/dL)	23 (21-25)
AST (units/L)	33 (30-50)
ALT (units/L)	41 (24-49)
Total bilirubin (mg/dL)	0.8 (0.4-1.1)