

**Supplementary Table 1. Background comparison stratified by the inflow cannula angle**

	≤75 degrees (N = 38)	>75 degrees (N = 16)	p value
<i>Device position parameters</i>			
Pump angle relative to spine, degrees	94 (82, 101)	95 (78, 104)	0.86
Pump depth, mm	104 (84, 124)	104 (86, 131)	0.66
Inflow cannula-pump angle, degrees	69 (62, 73)	63 (56, 74)	0.24
Pump-outflow graft angle, degrees	115 (108, 125)	116 (107, 127)	0.23
<i>Variables at set LVAD speed</i>			
LVAD speed, rpm	9285 (8935, 9600)	9600 (9200, 9750)	0.24
LVDD, cm	5.7 (4.9, 6.8)	6.4 (5.7, 7.9)	0.13
Opening of aortic valve	11 (29%)	8 (50%)	0.12
Mitral valve regurgitation, degrees	1 (0, 2)	0 (0, 1)	0.091
CVP, mmHg	8 (4, 12)	11 (5, 16)	0.10
Mean PAP, mmHg	22 (16, 26)	32 (23, 34)	0.001 <sup>†</sup>
CI, L/min/m <sup>2</sup>	2.70 (2.34, 3.20)	2.33 (2.05, 2.70)	0.035 <sup>†</sup>

Abbreviations as in Table 1. \*p <0.05 by Fischer's exact test as appropriate, <sup>†</sup>p <0.05 by Mann-Whitney U test.