

**Table S1** Mortality (in-patient/30 day) and survival

Author (Reference)	Mortality	1-year survival	3-year survival	5-year survival	10-year survival	15-year survival	Prognostic factors for Mortality
Mayer (16)	24.4%						N
Hartz (21)	9.5%						N
Gilbert (62)	23.5%						Y
Miller (30)	8.1%						Y
Archibald (52)	9.5%	81.5%					N
Dartevelle (61)	13.2%						N
Hagl (56)	10.0%						N
Puis (60)	7.5%	87.5%					N
Ji (54)	3.3%						N
Macchiarini (57)	3.3%						N
Matsuda (44)	7.8%	90.6%	89.8%				N
Rubens (29)	7.8%	90.9%	84.0%				N
Dyk (69)	6.5%	91.2%					Y
Mikus (51)	5.0%						N
Freed (43)	21.3%		74.6%	72.3%	69.3%		N
Narayana Iyengar (50)	12.2%						N
Gan (28)	4.4%				71.8/94.6%	29.6/91.0%	N
Gu (42)	13.3%						N
van der Plas (45)	10.4%						N
Hosokawa (46)	3.9%						N
Schölzel (65)	12.5%						N
Mayer (71)	4.7%	93.0%					Y
Madani (8)	4.2%			82.0%	75.0%		N
Oh (34)	10.8%						N
Fernandes (15)	0.8%						N
Coronel (23)	18.8%	72.0%	67.0%	67.0%			Y
Yanartas (59)	20.8%						Y
Vanden Eynden (33)	10.0%						N
Leung Wai Sang (37)	7.9%						N
Nierlich (22)	5.7%	91.0%		79.6%	66.5%	56.2%	Y
Escribano-Subías (24)	3.3%	95.1%		86.3%			Y
Delcroix (6)	5.5%	93.0%	89.0%				N
Korsholm (26)	8.4%		84.0%	77.0%	62.0%		N
López Gude (31)	5.6%						N
Sihag (49)	3.7%						N

**Table S1** (continued)

Table S1 (continued)							
Author (Reference)	Mortality	1-year survival	3-year survival	5-year survival	10-year survival	15-year survival	Prognostic factors for Mortality
Kim (64)	8.4%			84.8±1.9%	77.1±2.7%	59.2±5.3%	Y
Miwa (19)	12.0%	88.1%	86.6%	84.1%	80.6%		Y
Yanaka (41)	11.4%						Y
Amsallem (20)	4.0%						N
Tromeur (10)	2.8%	93.1%	92.5%				Y
Raza (63)	24.0%						N
Cruz-Suarez (68)	1.6%						N
Lankeit (39)	13.0%						Y
Chen (53)	11.0%	89.0%	81.0%	50.0%			N
Kelava (35)	6.9%	87.2%					N
Sakurai (25)	7.4%	91.8%	89.2%	89.2%	86.1%		Y
Yan (55)	1.7%						N
Segel (66)	6.8%	93.0%	91.0%	89.0%			N
Siennicka (70)	7.3%						N
Bunclark (9)	3.7%						N
Kallonen (27)	7.0%			80.0%	69.0%	55.0%	N
Fragata (32)	10.5%						N
Kamenskaya (47)	6.3%						Y
Cain (36)	23.5%						Y
Türer Cabbar (58)	6.3%						Y
Ghio (48)	9.4%						N
Miyahara (18)	4.2%						N
Balki (67)	7.1%						N
Hobohm (38)	2.5%						Y
Martinez Santos (40)	3.8%	94.6%	89.7%	82.5%			Y
Deng (17)	7.4%	92.6%	89.6%	87.5%			Y

Y, yes, discuss prognostic factors for mortality; N, no discussion of prognostic factors for mortality.

Table S2 Morbidity						
Author (Reference)	Stroke/ Neurology	Major Bleeding	Post-operative Mechanical Support	Reperfusion Oedema	ICU LoS (Days)	Hospital LoS (Days)
Mayer (16)						
Hartz (21)	4.8%		4.8%		7.5 (IQR 1.1–22)	
Gilbert (62)						
Miller (30)						
Archibald (52)						
Darteville (61)				33.8%		
Hagl (56)				23.3%	5±9	
Puis (60)			7.5%			
Ji (54)						
Macchiarini (57)				0.0%	6.6±8.5	
Matsuda (44)	4.7%			9.0%	4.1±2.4	19.5±10.5
Rubens (29)		4.9%	8.8%			
Dyk (69)			14.4%		5 (0–56)	
Mikus (51)		5.0%	5.0%			
Freed (43)						
Narayana Iyengar (50)			2.4%	19.3%	11.25	
Gan (28)				9.4%		
Gu (42)		6.7%		20.0%	6.1±4.3	
van der Plas (45)						
Hosokawa (46)						
Schölzel (65)		25.0%	56.3%	31.3%	15.6±16.4	29.1±22.2
Mayer (71)	11.2%		3.1%	9.6%		
Madani (8)						
Oh (34)						
Fernandes (15)				23.1%	4	11
Coronel (23)		16.1%		25.8%	8	17
Yanartas (59)						
Vanden Eynden (33)			0.0%	3.3%	8.1±14.4	30.5±12.1
Leung Wai Sang (37)		13.2%		44.7%	5.5	15
Nierlich (22)			2.0%		4.8 (IQR 2.4–7.9)	10.0 (IQR 7.0–17.0)
Escribano-Subías (24)						
Delcroix (6)						
Korsholm (26)	1.7%	9.2%	3.8%	13.5%		
López Gude (31)	TIA 3.8%	5.0%	5.0%	18.8%		
Sihag (49)					4.6±4.7	12.6±9.0

Table S2 (continued)

Table S2 (continued)						
Author (Reference)	Stroke/Neurology	Major Bleeding	Post-operative Mechanical Support	Reperfusion Oedema	ICU LoS (Days)	Hospital LoS (Days)
Kim (64)						
Miwa (19)						
Yanaka (41)						
Amsallem (20)			9.1%			
Tromeur (10)						
Raza (63)				96.0%		
Cruz-Suarez (68)					4 [IQR 3–7]	12 (9–19)
Lankeit (39)						
Chen (53)	15.8%		21.1%	68.4%	8±13	19±26
Kelava (35)			9.3%			
Sakurai (25)			25.4% ECMO, 9.0% IABP		7	45
Yan (55)	0.0%		3.4%	6.9%	6 (IQR 5–7)	
Segel (66)						
Siennicka (70)						
Bunclark (9)			5.5%		4±3	14.5±10
Kallonen (27)						
Fragata (32)		0.0%	0.0%	5.0%	9.2±8.5	21.5±12.9
Kamenskaya (47)	0.6%					15
Cain (36)	2.9%	8.8%	17.6%	29.4%		10.8
Türer Cabbar (58)						
Ghio (48)	1.0%	18.0%	14.0%	3.0%	10.9±13.6	19.0±15.0
Miyahara (18)						
Balki (67)						
Hobohm (38)	1.3%	11.4%	5.1%	9.7%		15 (IQR 13–18)
Martinez Santos (40)						
Deng (17)						

ICU, Intensive Care Unit, LoS, Length of Stay, TIA, Transient Ischaemic Attack, ECMO, Extracorporeal Membrane Oxygenation, IABP, Intra-Aortic Balloon Pump, IQR, Inter-quartile Range.

**Table S3** Haemodynamic and Functional outcomes

Author (Reference)	Mean Pulmonary Artery Pressure		Pulmonary Vascular Resistance		Cardiac Output		Cardiac Index		NYHA/WHO Class III–IV		6 Minute Walk Distance		RPH	Subsequent BPA	Prognostic factors RPH
	Pre-Op	Post-op	Pre-Op	Post-op	Pre-Op	Post-op	Pre-Op	Post-op	Pre-Op	Post-op	Pre-op	Post-op			
Mayer (16)	49±19	23±10	1015±454	198±72			2.0±0.7	2.9±0.5	95.4%	4.6%					N
Hartz (21)									76.2%						N
Gilbert (62)															N
Miller (30)	45.3±10.8	23.6±8.42		243 (IQR 174–338)	5.0±1.21		2.1±0.6	2.8±0.58	84.0%	5.5%		391±111	44.5%		N
Archibald (52)													7.8%		N
Dartevelle (61)	54±13	30.2±11.8	1207±416	519±250	3.8±0.81	5.0±1.3	2.1±0.51	2.8±0.6	97.1%	4.4%					N
Hagl (56)	56±17	26±10	873±248	290±117	4.2±0.8	5.9±1.4	1.8±0.3	2.8±0.4	100.0%	0.0%					N
Puis (60)	50±11	38±10	1246±482	515±294			1.54±0.54	2.63±0.75							N
Ji (54)							1.64 ± 0.47	2.58 ± 0.51	100.0%	4.0%					N
Macchiarini (57)	57±18	25±7	1110±192	279±98			1.7±0.3	2.9±0.4	100.0%	0.0%					N
Matsuda (44)	47.3±10.4	27.5±7.7	780±258	368±120				2.9±0.8					20.0%		N
Rubens (29)	46±9	46±9	1072±448	346±256			2.0±0.6	2.5±0.6			358±102	490±80			N
Dyk (69)	51±13.1	3.7±11.1	860±386.36	337.6±200.6			2.3±0.5	2.75±0.8	86.9%						N
Mikus (51)	48±10		793.5±284	286±143			2.3±0.4		75.0%	0.0%	371.1±108.9	483±114.1			N
Freed (43)	47±14	25±14	800±494	244±253			1.9±0.7	2.5±0.6	87.6%	9.0%	269±123	392±108			N
Narayana Iyengar (50)	40.98±9.29	41.3±7.36	418±95.88	142.45±36.3			1.99±0.20	3.28±0.56	61.0%						N
Gan (28)	81.48±17.2		1512						99.9%						N
Gu (42)	49.3±18.6	26.8±10.5	938.8±464.1	316.8±153.3			2.31±0.69	3.8±1.2	100.0%	0.0%	308±96	527±132			N
van der Plas (45)	43.7±10.9	24.7±7.2	806±387	422±146	5.0±1.3				80.3%	0.0%	440±109	524±83	31.3%		Y
Hosokawa (46)	46.6±10.1	25.1±13.7	1142±454	496±363	3.16±0.99	3.75±0.93					375±102	429±111	39.2%		Y
Schölzel (65)									68.8%						N
Mayer (71)	48		736	248			2.2				362	459	16.7%		Y
Madani (8)															N
Oh (34)	43.5±9.7		602.2±39.0		4.3±1.4		2.6±1.0		62.2%		380.0 (IQR 300.0–491.0)				N
Fernandes (15)									86.1%						N
Coronel (23)	52±13	26±9	1020±537	296±171			1.94±0.56	2.49±0.43	72.0%	0.0%	397±114	473±111	33.0%		N
Yanartas (59)									71.7%						N
Vanden Eynden (33)	46.5±11.6	27.5±17.4	847.5±432.0	358.7±264.9	3.77±0.97	4.3±2.1	2.0±0.51	2.31±1.11	89.7%						N
Leung Wai Sang (37)	49.9±14.2	32.0±7.3	1209.1±722.9				2.1±0.7	3.1±1.0	97.4%	87.5%					N
Nierlich (22)	47 (IQR 42.0–44.0)		600 (IQR 560–1120)		2.6 (IQR 2.2–3.0)				78.1%						N
Escribano-Subías (24)	48.0±12.6		688 (476,1048)		4.2				72.1%		400 (IQR 290, 475)		41.2%		Y
Delcroix (6)	48		728				2,2		81.0%		340				N
Korsholm (26)	48.4±10.7	33.4±8.9	857±398	289			2.1±0.6	3±0.7	92.5%	16.0%	348	448±104	17.5%		N
López Gude (31)									81.9%	6.3%			19.6%		N
Sihag (49)	49	22.7±7	639±373		4.7±1.5				66.4%				8.2%		N

**Table S3** (continued)

Table S3 (continued)																
Author (Reference)	Mean Pulmonary Artery Pressure		Pulmonary Vascular Resistance		Cardiac Output		Cardiac Index		NYHA/WHO Class III–IV		6 Minute Walk Distance		RPH	Subsequent BPA	Prognostic factors RPH	
	Pre-Op	Post-op	Pre-Op	Post-op	Pre-Op	Post-op	Pre-Op	Post-op	Pre-Op	Post-op	Pre-op	Post-op				
Kim (64)	44.8±12.2	23.5±7.1	813.7±454.9	259.7±158				4.9±122.0		89.8%		346.1±127.3		33.3%	N	
Miwa (19)	46.4±10.0		824					2.6±0.7		74.5%		367.2±89.6			8.2%	N
Yanaka (41)										77.3%	13.6%				22.7%	N
Amsallem (20)										74.5%						N
Tromeur (10)	48±11	28±10	773±353	307±221	4.53±1.35	5.50±1.41				83.0%	25.0%	310±159	399±146			Y
Raza (63)																N
Cruz-Suarez (68)	45±13		856 [587-1217]									361±165	463±157			N
Lankeit (39)	48.1 ± 9.5		762 ± 328		4.4 ± 1.3		2.2±0.5			84.0%	16.0%	310±128				N
Chen (53)	51±11		1048		3.0±1.0		1.9±0.6			100.0%	12.0%	326±62	420±63			N
Kelava (35)																N
Sakurai (25)	47	20	832	219			2.28	2.7		96.0%	12.3%				15.6%	N
Yan (55)	49±13	22	724 (IQR 538-1108)	206 (IQR 141-284)						60.3%	98.1%				12.1%	N
Segel (66)	41.3/-11.9	25.2±11.2	521±264		4.7±1.2					74.0%		389±130	480±141			Y
Siennicka (70)	47	25	579	163	3.6	6.1	1.9	3.2								N
Bunclark (9)	45±15	25±13	668.8±474.4	254.4±224			2.17±0.76	2.3±0.68		86.3%		309±170	366±159		35.0%	N
Kallonen (27)	45±11									95.0%						N
Fragata (32)	45.6±13.4		1821.6±575.1				2.02±0.68			94.7%						N
Kamenskaya (47)										18.1%						N
Cain (36)	53.5±2.5		1,093.9±116													N
Türer Cabbar (58)	42.05±15.77		620.83±373.91		4.44±1.23		2.36±0.63									N
Ghio (48)	47±12	28±10	810±443	215±139			2.0±0.7	3.2 ± 0.7								N
Miyahara (18)	45±11	24±8					2.1±0.5	2.8±0.5								N
Balki (67)	48		1240 (160-4760)				2.2 (1.0-4.5)			67.9%	10.7%	338 (IQR 300-377)	437 (IQR 390-513)			N
Hobohm (38)	43 (IQR 34-50)	29 (IQR 26-33)	576 (IQR 400-824)	Median 384	4.5 (IQR 3.6-5.5)		2.3 (IQR 1.9-2.7)			78.5%						N
Martinez Santos (40)	44±10		752±440				2.3±0.5			68.3%		380±119		16.8%	2.0%	N
Deng (17)	52±10		1136±441				2.3±1.0			59.0%		367±102				N

NYHA, New York Heart Association, WHO, World Health Organization, RPH, Residual Pulmonary Hypertension, BPA, Balloon Pulmonary Angioplasty, IQR, Inter-Quartile Range.