

Appendix 1 Search strategy

(pulmonary artery catheterization[MeSH Terms]) AND (pulmonary artery catheter [MeSH Terms]) OR (invasive hemodynamic monitoring[MeSH Terms]) OR (hemodynamic [MeSH Terms]) OR (hemodynamic monitoring[MeSH Terms]) AND (catheterization, swan ganz[MeSH Terms]) AND (shock, cardiogenic[MeSH Terms]) OR (heart failure[MeSH Terms]) OR (Acute decompensated heart failure) AND (cardiogenic shock[MeSH Terms])

Table S1 Baseline characteristics of included studies

Study ID	Age	Sex	MCS rate	Vasopressors and/or inotropes	Mechanical ventilator support	Renal replacement therapy
Ashraf 2020 (14)	Mean age 66 years (overall)	Male 70% (overall)	-	-	-	5.18(PAC) 3.66(No PAC)
Ha 2018 (15)	-	-	-	-	-	-
Vallabhajosyula 2020 (16)	68.3(12.5) (PAC) 70.1 (13.4)(No PAC)	62.3(PAC) 59 (No PAC)	55.8 (PAC) 39.2(No PAC)		61.4 (PAC) 42.1(No PAC)	5.8 (PAC) 2.9 (No PAC)
Oneill 2018 (17)	-	-	-	-	-	-
Sotomi 2014 (18)	66.7 (13.9) (PAC), 68.0 (14.9) (No PAC)	63.3 (PAC), 62.7 (No PAC)	-	21.5 (PAC), 22.3 (No PAC)	7.8(PAC), 8.4 (No PAC)	1.2 (PAC), 1.0 (No PAC)
Rossello 2017 (19)	66 (15.5) (PAC), 71 (12.5) (No PAC)	65 (PAC), 65 (No PAC)	37 (PAC), 22 (No PAC)	98 (PAC), 85 (No PAC)	71 (PAC), 54 (No PAC)	25 (PAC), 13 (No PAC)
Doshi 2018 (20)	65 (PAC), 69 (No PAC)	64.3 (PAC), 59.5 (No PAC)	-	-	-	-
Hernandez 2019 (21)	64 (14.7) (PAC), 68.1 (14.4) (No PAC)	63.8 (PAC), 59.3 (No PAC)	39 (PAC), 25.8 (No PAC)	-	56.9 (PAC), 50.8 (No PAC)	9.8 (PAC), 6.1 (No PAC)
Ranka 2020 (22)	-	-	-	-	-	-
Sionis 2020 (23)	65(12) PAC, 68(11) No PAC	78 (PAC), 72 (No PAC)	68 (PAC), 44 (No PAC)	93 (PAC), 77 (No PAC)	89 (PAC), 47(No PAC)	22 (PAC), 9 (No PAC)
Osman 2021 (24)	64 (55-72) (PAC), 68 (58-78) (No PAC)	66.9 (PAC), 61.4 (No PAC)	44.7 (PAC), 28.8 (No PAC)	-	39.7 (PAC), 49.1 (No PAC)	9.4 (PAC), 9 (No PAC)
Sidhu 2017 (25)	-	-	-	-	-	-

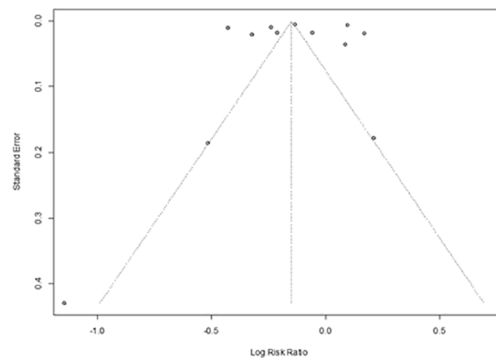


Figure S1 Funnel plot of studies used in meta-analysis.