

Supplementary Table SI. Detailed search strategy for each database

Database	Search String	Records
PubMed/MEDLINE	(((("microaxial flow pump" OR "Impella" OR "percutaneous ventricular assist device" OR "mechanical circulatory support") AND ("cardiogenic shock" OR "acute heart failure")) OR (("Heart-Assist Devices"[MeSH] OR "Pumps"[MeSH]) AND ("Cardiogenic Shock"[MeSH] OR "Heart Failure, Acute"[MeSH]))) AND (randomizedcontrolledtrial[Filter]))	28
Embase	('heart assist device'/exp OR 'impella'/exp OR 'circulatory support'/exp OR 'ventricular assist device'/exp) AND ('cardiogenic shock'/exp OR 'heart failure, acute'/exp OR 'myocardial failure'/exp) AND 'randomized controlled trial topic'/de	736
Cochrane Library	("microaxial flow pump" OR "Impella" OR "percutaneous ventricular assist device") AND (cardiogenic shock OR "acute heart failure")	109