

1 **Supplementary:**

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3 **Detailed Search Strategy**

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5 **Topic 1:** (((("Heart-Assist Devices"[Mesh]) OR (Left ventricular assist device[Title/Abstract]))  
6 OR (LVAD[Title/Abstract])) OR (HeartMate[Title/Abstract]) OR (STS  
7 INTERMACS[Title/Abstract]) OR (INTERMACS[Title/Abstract]) OR (ELSO[Title/Abstract])

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9 **Topic 2\* Add with AND:** ((((((("Atrial Fibrillation"[Mesh]) OR "Risk Factors"[Mesh]) OR  
10 (atrial fibrillation[Title/Abstract])) OR (risk factors[Title/Abstract])) OR  
11 (predictors[Title/Abstract])) OR ("Arrhythmias, Cardiac"[Mesh])) OR  
12 (arrhythmia[Title/Abstract]) OR Comorbidities[Title/Abstract] OR Comorbidity[Title/Abstract])

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14 **Topic 3\*Add with AND:** ((((((((((("Heart-Assist Devices/adverse effects"[Mesh]) OR "Heart  
15 Failure/complications"[Mesh]) OR "Stroke"[Mesh]) OR "Thromboembolism"[Mesh]) OR  
16 "Mortality"[Mesh]) OR "Postoperative Complications"[Mesh] ) OR (bleeding[Title/Abstract]))  
17 OR (mortality[Title/Abstract])) OR (postoperative complication[Title/Abstract])) OR  
18 (thromboembolism[Title/Abstract])) OR (stroke[Title/Abstract])) OR (thromboembolic  
19 event[Title/Abstract]) OR (postoperative atrial fibrillation[Title/Abstract]) OR  
20 (survival[Title/Abstract])

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22 **Topic 4\*Add with AND:** (“Multivariable Model”[Title/Abstract]OR “Multivariate logistic  
23 regression”[Title/Abstract] OR “Multivariable Models”[Title/Abstract] OR “Multivariable risk  
24 model”[Title/Abstract] OR “Multivariable risk models”[Title/Abstract] OR “Multivariate  
25 Analysis” [Mesh]) OR ("Postoperative Complications/epidemiology"[Mesh]) OR ("Atrial  
26 Fibrillation/epidemiology"[Mesh]) OR ("Stroke/epidemiology"[Mesh]) OR (“Cox Proportional  
27 Hazard”[Title/Abstract]) OR (“Multivariate Cox regression”[Title/Abstract])

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29 **Topic 5\*Add with NOT:** (“Infection”[Title/Abstract] OR “Heart Transplant”[Title/Abstract])

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34 **Supplementary Table S1: Included References with respective citation count and journal**  
 35 **impact factor.**

<b>Included Reference</b>	<b>Citation Count</b>	<b>Journal of Publication</b>	<b>Journal Impact Factor at Time of Publication (JCR)</b>
Colombo <i>et al.</i> (2019) <sup>[18]</sup>	60	Circulation	23.603
Cho <i>et al.</i> 2020 <sup>[19]</sup>	7	Journal of Heart and Lung Transplantation	10.247
Chiang <i>et al.</i> 2020 <sup>[20]</sup>	9	Journal of Cardiac Surgery	1.620
Galand <i>et al.</i> 2019 <sup>[21]</sup>	8	JACC- Clinical Electrophysiology	6.375 (2020)
Blumer <i>et al.</i> 2020 <sup>[22]</sup>	2	Journal of Cardiovascular Translational Research	4.132
Tahsili-Fahadan <i>et al.</i> 2018 <sup>[23]</sup>	5	Neurocritical Care	2.892
Parikh <i>et al.</i> 2016 <sup>[24]</sup>	39	Stroke	6.032
Sherazi <i>et al.</i> 2018 <sup>[25]</sup>	2	International Journal of Artificial Organs	1.232
Papathanisious <i>et al.</i> 2019 <sup>[26]</sup>	7	ESC Heart Failure	3.407

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Hickey <i>et al.</i> 2020 <sup>[27]</sup>	2	Journal of Cardiovascular Translational Research	4.132
Deshmukh <i>et al.</i> 2017 <sup>[17]</sup>	23	Journal of American Heart Association	4.450
Brenyo <i>et al.</i> 2012 <sup>[28]</sup>	61	Journal of Cardiovascular Electrophysiology	3.475
Iwasaki <i>et al.</i> 2020 <sup>[29]</sup>	0	Circulation Journal	2.993
Deshmukh <i>et al.</i> 2018 <sup>[30]</sup>	5	ASAIO Journal	2.494
Hickey <i>et al.</i> 2016 <sup>[16]</sup>	26*	JACC- Clinical Electrophysiology	6.375 (2020)
Noll <i>et al.</i> 2019 <sup>[31]</sup>	5	JACC- Clinical Electrophysiology	6.375 (2020)
Gonuguntla <i>et al.</i> 2020 <sup>[32]</sup>	0	American Journal of Cardiovascular Disease	n/a
Imamura <i>et al.</i> 2019 <sup>[33]</sup>	3	Circulation Journal	2.540
Joy <i>et al.</i> 2016 <sup>[34]</sup>	46	American Journal of Cardiology	3.398
Morgan <i>et al.</i> 2016 <sup>[35]</sup>	13	Annals of Thoracic Surgery	3.700
Xuereb <i>et al.</i>	20	Annals of Thoracic	3.700

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2016 <sup>[36]</sup>		Surgery	
Acharya <i>et al.</i>		JACC- Heart Failure	
2017 <sup>[37]</sup>	89		8.202
Hui <i>et al.</i> 2019 <sup>[38]</sup>	4	Anesthesia and Analgesia	4.305
Hawkins <i>et al.</i>		Journal of Thoracic and Cardiovascular Surgery	
2018 <sup>[39]</sup>	11		5.261
Teuteberg <i>et al.</i>		JACC- Heart Failure	
2015 <sup>[40]</sup>	111		7.218
Xia <i>et al.</i> 2016 <sup>[41]</sup>	16	Journal of Heart and Lung Transplantation	7.114
Martins <i>et al.</i>		Heart Rhythm	
2019 <sup>[42]</sup>	7		5.731
Kurihara <i>et al.</i>		ASIAO Journal	
2018 <sup>[43]</sup>	6		2.494
Enriquez <i>et al.</i>		Journal of the American College of Cardiology	
2014 <sup>[14]</sup>	50		16.503
Nassif <i>et al.</i> 2016 <sup>[44]</sup>	60	Circulation-Heart Failure	6.372
Izzy <i>et al.</i> 2018 <sup>[45]</sup>	15	Stroke	6.058
Brisco <i>et al.</i>		Journal of Cardiac Surgery	
2014 <sup>[46]</sup>	27		0.890
Morris <i>et al.</i>		Journal of Heart and Lung Transplantation	
2015 <sup>[47]</sup>	33		7.509

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Dang <i>et al.</i> 2005 <sup>[48]</sup>		Journal of Thoracic and	
	33	Cardiovascular Surgery	3.727
Stulak <i>et al.</i> 2013 <sup>[15]</sup>		Annals of Thoracic	
	58	Surgery	3.631

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36 \*per Google Scholar, not listed on Web of Science.

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