

Supplementary Table S1. Metadata of the 31 studies included in the systematic review

| Author | Year | Country | Journal | Type | Duration |
|--------------------------|------|---------------|---|------|--------------------------------|
| Aissaoui et al.[1] | 2014 | Germany | American Society for Artificial Internal Organs Journal | RS | January 2000 to May 2011 |
| Anderson et al.[2] | 2018 | US | The Journal of Heart and Lung Transplantation | PM | NR |
| Badu et al.[3] | 2020 | US | American Society for Artificial Internal Organs Journal | RS | April 2017 to February 2019 |
| Bhama et al.[4] | 2018 | US | The Journal of Thoracic and Cardiovascular Surgery | RS | Between 2005 and 2013 |
| Cheung et al.[5] | 2014 | Canada | The Journal of Heart and Lung Transplantation | RM | Between 2005 and 2011 |
| Coromilas et al.[6] | 2019 | US | Journal of Cardiac Failure | RS | March 2007 to April 2018 |
| Deschka et al.[7] | 2016 | Germany | Journal of Cardiothoracic and Vascular Anesthesia | RM | February 2011 to February 2015 |
| Jaidka et al.[8] | 2019 | Canada | Canadian Journal of Cardiology Open | RS | January 2015 to December 2017 |
| Kapur et al.[9] | 2013 | US | JACC: Heart Failure | RM | Between 2007 and 2011 |
| Khani-Hanjani et al.[10] | 2013 | US | American Society for Artificial Internal Organs Journal | RS | October 2009 to September 2011 |
| Khorsandi et al.[11] | 2019 | US | The Annals of Thoracic Surgery | RS | October 2007 to October 2017 |
| Kiernan et al.[12] | 2017 | INTERMACS | Circulation. Heart Failure | RM | June 2006 to March 2014 |
| Kremer et al.[13] | 2020 | Germany | European Society of Cardiology Heart Failure Journal | RS | July 2016 to November 2019 |
| Lazar et al.[14] | 2013 | US | The Annals of Thoracic Surgery | RS | Between 2006 and 2011 |
| Leidenfrost et al.[15] | 2016 | US | European Journal of Cardio-Thoracic Surgery | RS | March 2009 to June 2013 |
| Loforte et al.[16] | 2013 | Italy-Germany | Journal of Artificial Organs | RM | Between 2007 and 2011 |
| Loforte et al.[17] | 2011 | Italy | American Society for Artificial Internal Organs Journal | RS | February 2004 and May 2010 |
| Oliveros et al.[18] | 2021 | US | Journal of Invasive Cardiology | RS | August 2015 to February 2018 |
| Patil et al.[19] | 2015 | UK | The Journal of Thoracic and Cardiovascular Surgery | RS | July 2003 to June 2013 |

| Author | Year | Country | Journal | Type | Duration |
|-------------------------|------|----------|---|------|---------------------------------|
| Qureshi et al.[20] | 2020 | US | Catheterization and Cardiovascular Interventions | RM | June 2016 to April 2018 |
| Ravichandran et al.[21] | 2018 | US | American Society for Artificial Internal Organs Journal | RS | October 2014 to March 2016 |
| Saeed et al.[22] | 2015 | Germany | The Journal of Thoracic and Cardiovascular Surgery | RS | January 2010 to Feb 2014 |
| Saito et al.[23] | 2012 | Japan | The Journal of Heart and Lung Transplantation | RS | January 2001 to December 2010 |
| Salana et al.[24] | 2020 | US | Interactive CardioVascular and Thoracic Surgery | RS | January 2016 to March 2019 |
| Schaefer et al.[25] | 2017 | Germany | American Society for Artificial Internal Organs Journal | RS | January 2012 to April 2016 |
| Schmack et al.[26] | 2019 | Germany | Journal of Thoracic Disease | RS | October 2015 to September 2017 |
| Schopka et al.[27] | 2012 | Germany | Journal of Artificial Organs | RS | Between 2006 and 2011 |
| Shekiladze et al.[28] | 2020 | US | Catheterization and Cardiovascular Interventions | RS | January 2016 to December 2018 |
| Takeda et al.[29] | 2014 | US | The Journal of Heart and Lung Transplantation | RS | January 2000 to December 2012 |
| Vierecke et al.[30] | 2019 | EUROMACS | European Journal of Cardio-Thoracic Surgery | RM | January 2011 to 21 October 2017 |
| Yoshioka et al.[31] | 2017 | US | Interactive CardioVascular and Thoracic Surgery | RS | January 2009 to December 2014. |

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