

Mechanical Circulatory Support in Lung Transplantation

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Mechanical circulatory support in lung transplantation: Cardiopulmonary bypass, extracorporeal life support, and *ex-vivo* lung perfusion

Shaylyn C Bennett, Eliza W Beal, Curtis A Dumond, Thomas Preston, Jim Ralston, Amy Pope-Harman, Sylvester Black, Don Hayes Jr, Bryan A Whitson

Abstract

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Lung transplant is the standard of care for patients with end-stage lung disease refractory to medical management. There is currently a critical organ shortage for lung transplantation with only 17% of offered organs being transplanted. Of those patients receiving a lung transplant, up to 25% will develop primary graft dysfunction, which is

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associated with an 8-fold increase in 30-day mortality. There are numerous mechanical

lung assistance modalities that may be employed to help combat these challenges. We

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will discuss the use of mechanical lung assistance during lung transplantation, as a

bridge to transplant, as a treatment for primary graft dysfunction, and finally as a

means to remodel and evaluate organs deemed unsuitable for transplant, thus

increasing the donor pool, improving survival to transplant, and improving overall

patient survival.

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