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Effects of left ventricular assist device on pulmonary functions and pulmonary hemodynamics: A meta-analysis

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Abstract

BACKGROUND

Given current evidence, the effect of left ventricular assist device (LVAD) implantation on pulmonary function tests remains controversial.

AIM

To better understand the factors contributing to the changes seen on pulmonary function testing and the correlation with pulmonary hemodynamics after LVAD

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Objectives: To determine the **effect** of differing modes of **left ventricular assist device** (LVAD) operation: synchronous, independent (asynchronous or pseudosynchronous) or counter pulsation (antisynchronous), on **left** atrial pressure, **pulmonary** artery pressure, **pulmonary** blood flow and right **ventricular** work load, utilizing a previously published electrical analogy of the systemic and **pulmonary** ...

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Continuous flow **left ventricular assist devices** (CF LVAD) are being implanted with increasing frequency for end-stage heart failure. At the time of LVAD implant, a large proportion of patients have **pulmonary** hypertension, right **ventricular** (RV) dysfunction, and tricuspid regurgitation (TR).