

CLINICAL EXPERIENCE WITH THE ILA MEMBRANE VENTILATOR PUMPLESS EXTRACORPOREAL LUNG-ASSIST DEVICE

WALLES T
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Objective

This article reviews the present state of clinical Novalung® device implementation focusing on encountered limitations and conceivable future developments in the field.

Study Design

Review.

Methods

A total of 8 retrospective, clinical studies, enrolling 225 patients altogether, were reviewed and analyzed with respect to success rate (survival %) and complications like thrombus formation, limb ischemia, infection, plasma leakage and bleeding at the cannula-site.

Results

It is noteworthy that 213 patients were reported by the University Hospital of Regensburg (Germany) in seven studies published between 2000 and 2006. The iLA application represents a reliable treatment with survival rate of 56 % and a comparatively low complication rate of 29 %.

Commentary

Extracorporeal CO₂ removal in patients with acute lung failure and ventilator refractory hypercapnia is advancing in clinical practice. For the iLA, the conducted system modifications during the last few years resulted in a continuous improvement of the device.

