

## **PUMPLESS EXTRACORPOREAL LUNG ASSIST (PECLA) IN PATIENTS WITH ACUTE RESPIRATORY DISTRESS SYNDROME AND SEVERE BRAIN INJURY**

BEIN T, SCHERER MN, PHILIPP A, WEBER F, WOERTGEN C  
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### **Objective**

Employ interventional Lung Assist (iLA) to avoid the detrimental effects of hypercapnia on intracranial pressure and cerebral outcome in patients suffering from acute severe brain injury and ARDS.

### **Study Design**

Single group retrospective analysis.

### **Study Population**

5 patients with acute severe brain injury and ARDS.

### **Results**

80% survival with good neurologic function.

20% mortality due to multiorgan failure as a consequence of multi-trauma.

Intracranial pressure was reduced.

No bleeding complications.

### **Commentary**

This is the first attempt at solving the conflict between lung protection and cerebral protection in patients suffering from both acute brain and lung injury.

Relevant for approx. 25-30% of multi-trauma patients.

