

Category : **Respiratory: mechanical ventilation**

A50 - Long-term survival and health-related quality of life after veno-venous extracorporeal membrane oxygenation therapy in patients with severe acute respiratory distress syndrome

J Rilinger¹; K Krötzsch²; X Bemtgen²; M Jäckel²; V Zotzmann²; D Duerschmied²; C Bode²; DL Staudacher²; T Wengenmayer²

¹Heart Center Freiburg University, Department of Cardiology and Angiology I, Freiburg, Germany, ²Heart Center Freiburg University, Freiburg, Germany

Introduction:

In severe acute respiratory distress syndrome (ARDS) patients veno-venous extracorporeal membrane oxygenation (VV ECMO) support is initiated when conventional measures fail. However, so far there is limited data about long time survival and especially long term quality of life (QoL) in these very sick patients.

Methods:

We report retrospective data of a single-centre registry of patients with severe ARDS requiring VV ECMO support between 10/2010 and 06/2019. Follow up of all patients that survived the index hospitalisation was performed by telephone interview. Survival and QoL (SF-36, St. Georges Respiratory Questionary (SGRQ) and Hospital Anxiety and Depression Scale (HADS)) were assessed.

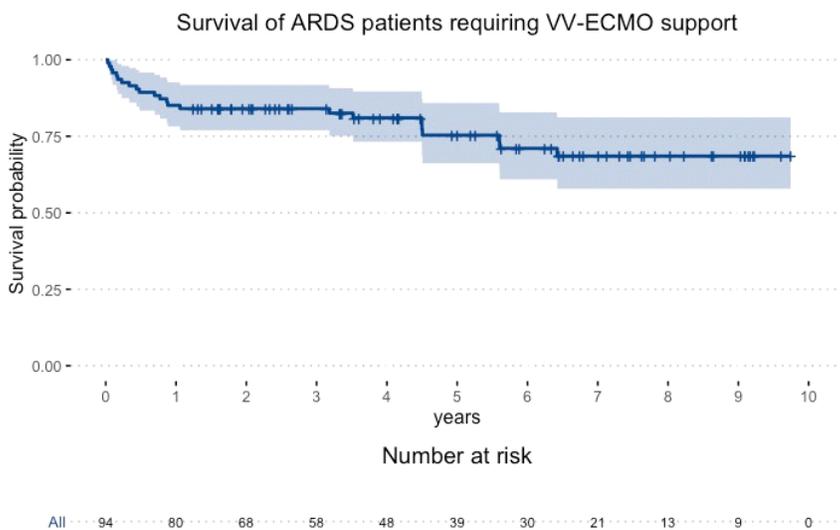
Results:

Of 289 VV ECMO patients, 129 patients (44.6%) survived the index hospitalisation. Follow up (4.3 ± 2.9 years after ECMO therapy) was successful in 94 patients, with 71 (75.5%) patients being still alive. Hospital survivors showed a high 6- and 12-month survival rate (89.4% and 85.1%, respectively, figure 1). QoL interviews were completed for 53 patients. Mean SF-36 score was 70.7, SGRQ score 19.3% and HADS score 7.4.

Conclusion:

This analysis with a long follow up period showed very encouraging long term survival rates of VV ECMO therapy survivors. Moreover, SF-36, SGRQ and HADS showed a low level of remaining physically, respiratory and mentally limitations.

Image :



Kaplan-Meier survival estimation for veno-venous extracorporeal membrane oxygenation therapy survivors