

Category : **Respiratory: mechanical ventilation**

A163 - ECMO- MADRID . Implementation of the veno-venous ExtraCorporeal Membrane Oxygenation (ECMO) Retrieval program in the region of Madrid (Spain). Experience of Hospital Universitario 12 de Octubre ECMO referral centre

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Introduction:

The objectives of this study are: first to describe the cases transferred to an ECMO referral centre(Hospital Universitario 12 de Octubre), second to investigate characteristics before ECMO and while the patient was on ECMO, third to analyse the presence or not of complications secondary to transfer and cannulation and finally to analyse the ICU outcome.

Methods:

This is a prospective descriptive study of ECMO retrieval program done from November 1st, 2020 to May 15 th, 2021. We analysed baseline descriptive variables, severity Scores, variables before and during ECMO, prone position on ECMO, complications during cannulation and transfer. Finally ICU survival was examined.

Results:

17 cases were accepted on the ECMO Retrieval program from November 1st, 2020 to May 15th, 2021. 13 (76%) of a total of 17 cases were male. 15 cases were accepted for emergency ECMO cannulation in the hospital of origin and transfer and 2 were accepted for conventional transfer and cannulation was done on the ECMO referral centre. Basic characteristics of the cases were: median age of 48 (IQ 18) and IMC 31.2 (IQR 9.8). The etiology of SDRA was predominantly secondary to Sars-Cov-2(COVID 19) infection, 16 cases of a total of 17 cases (94%). Length of non invasive ventilation and invasive ventilation before ECMO were 7.5 days(10.3 IQR) and 2 days (2.5 IQR) respectively and length of ICU admission before ECMO was 3 days (IQR 5). Severity scores were APACHE 8 (IQR 4), SOFA 4 (IQR 2.5), ELSO 3 (IQR 3). While the cases where on ECMO Prone position was done on 9 cases(53%) . Median days on ECMO were 13 days(IQR 10). Successful weaning from ECMO were achieved on 9 cases(53%). No complications were seen on transfer or cannulation. ICU Survivors were 6(35%).

Conclusion:

This is the first pilot study for ECMO retrieval in the region of Madrid, Spain. Despite high mortality in the context of COVID 19 pandemic , ECMO-MADRID retrieval program assures ECMO availability and it allows to rescue severe ARDS cases in the whole region.