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Hôpitaux ap

de Marseille hm

FROM DRUG DESIGN TO TREATMENT SUCCESS

WHAT REALLY MATTERS TO PATIENTS?



EAHP thanks the continued support of Corporate Partner Omnicell

THE PEDIATRIC INTENSIVE CARE UNIT

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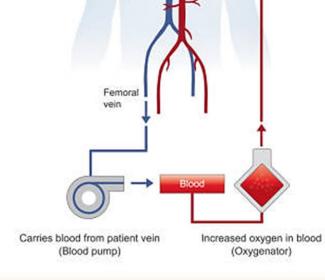


Extracorporeal Membrane Oxygenation (ECMO)

Background and importance

Extracorporeal Membrane Oxygenation (ECMO): last-resort rescue technique that allows the replacement of circulatory and/or respiratory functions.

- Increased volume of distribution
- Impaired renal clearance
- Pharmacokinetic modifications require drugs dosage adaptation
- → Aim and objectives: Compare the drug prescription of patients on ECMO with literature data to propose appropriate dosages



Material and methods

Prospective observational monocentric study 6 months from Mars to august 2018 Patient in PICU on ECMO

Paper prescription analysis et clinical data found by:

- Computerized patient record
- Our daily presence in the department

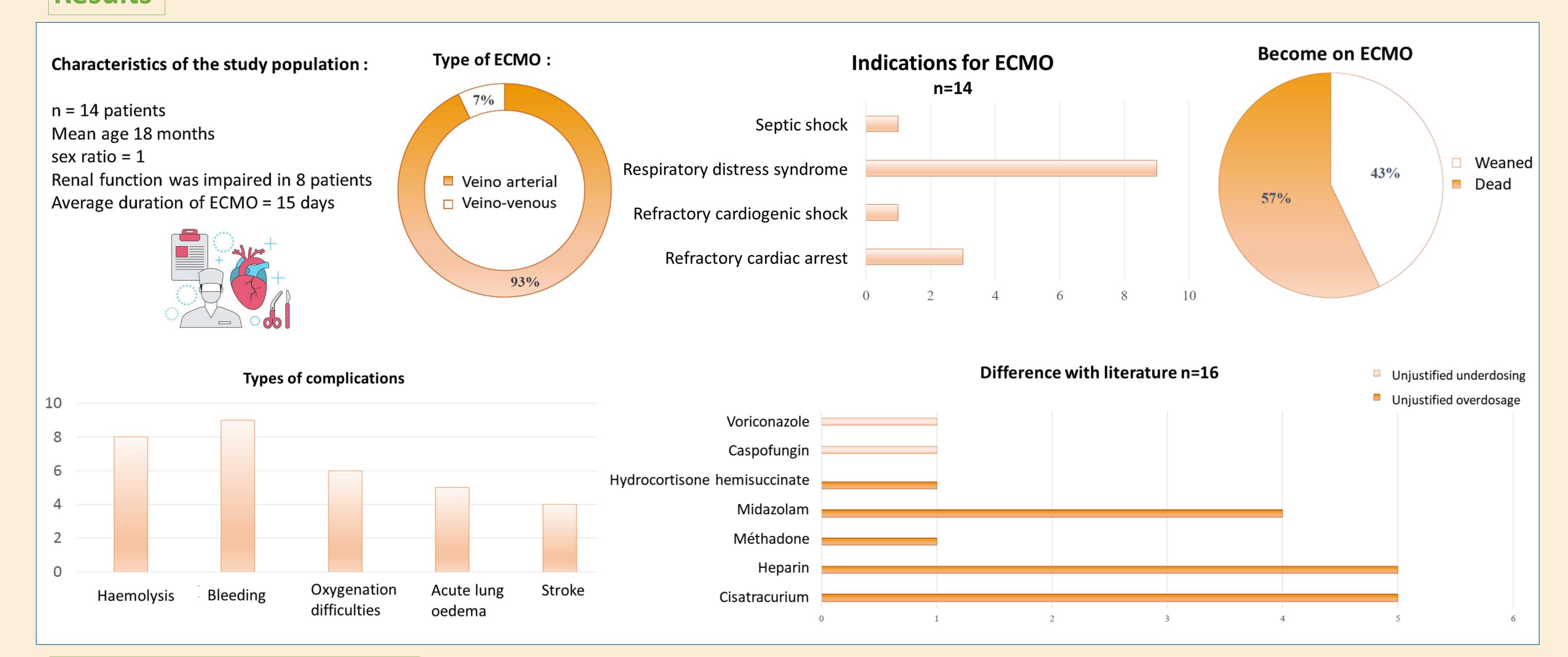
Comparison with the literature to examine the appropriateness of prescribed dosages.

We noted for each patient:

- Clinical data
- **ECMO**:
 - → Type and indication
 - → Duration
 - → Complications

Adequacy of dosages compared to the literature

Results



Conclusion and relevance

The populations studied in the literature remain different from ours, making it difficult to discuss our clinical results. However, following the non-conformities of dosage noted, we propose a table of dosage adaptation under ECMO synthesizing the literature for the studied molecules which is systematically accompanied by instructions to make a therapeutic drug monitoring

