

Analgesic, Sedative and Antibiotic Pharmacokinetics during Extracorporeal Membrane Oxygenation: Understanding altered pharmacokinetics to improve patient outcomes.

ACTRN12612000559819

Status	RECRUITING
Sponsor	Critical Care Research Group
Enrollment	160 participants

Plain Language Summary

This study is examining how the ECMO machine (a device that takes over the work of the heart and lungs in critically ill patients) and severe illness together affect the way the body processes common medications, including antibiotics, sedatives, and pain relievers. When drug levels are too low, infections may not be treated properly. When they are too high, patients can experience harmful side effects. This research aims to help doctors give the right drug doses to ECMO patients.

You may be eligible if:

- You are between 18 and 89 years old
- You are currently on ECMO for a heart or lung condition
- You require one of the study antibiotics or sedative/pain medications as part of your clinical care

You may NOT be eligible if:

- Valid consent cannot be obtained
- You have a known allergy to the study drug
- You are pregnant
- Your bilirubin level is above 150 (indicating severe liver disease)
- You are having massive ongoing blood loss requiring continuous blood transfusions
- You have had therapeutic plasma exchange in the past 24 hours

Talk to your doctor about whether this trial might be right for you.

Key Eligibility Criteria

Inclusion (3)

- Currently undergoing ECMO for respiratory +/- cardiac dysfunction
- Clinical indication for the antibiotics ceftriaxone, cefepime, meropenem, gentamicin, ciprofloxacin, ticarcillin-clavulanate, piperacillin-tazobactam, vancomycin, linezolid, caspofungin, fluconazole, voriconazole and oseltamivir
- Clinical indication for the sedatives and analgesics morphine, fentanyl, midazolam, dexmedetomidine, propofol or thiopentone

Exclusion (6)

- No valid consent
- Known allergy to study drug
- Pregnancy
- S. Bilirubin >150
- Ongoing massive blood loss and blood product transfusion

... and 1 more (see full listing online)

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12612000559819>

Locations (4 total)

DISCLAIMER: This document is for informational purposes only and does not constitute medical advice. Always consult your healthcare provider before enrolling in any clinical trial. Information may not be up to date — verify details at anzctr.org.au. Generated by ClinicalTrialsFinder.org.

The Prince Charles Hospital - Chermside, Australia
St Vincent's Hospital (Darlinghurst) - Darlinghurst, Australia
The Alfred - Prahran, Australia
... and 1 more locations