

Peer Review

# Review of: "Upgrading Renal Replacement Therapy Machines in the ICU: A Comparative Observational Study of Heparin vs. Regional Citrate Anticoagulation"

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1. The research defines specific objectives to compare the effectiveness between heparin and regional citrate anticoagulation (RCA) treatment modalities in CRRT within ICU environments.
2. The practical benefits for patient care, such as lower intervention rates and enhanced patient mobility, are emphasized within the discussion section. Statistical methods demonstrate significance by anchoring results with credibility.
3. Cost-effectiveness receives special importance in healthcare decision-making processes.
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5. A single-center observational study delivers important findings to support additional research work.
6. The study would gain both impact and generalizability if researchers expanded their analysis to reveal practical applications of results for various ICU environments.
7. The investigation concentrates on CRRT efficiency without presenting findings about long-term patient results, which include survival statistics and renal recovery progress. Additional research needs to complete this knowledge gap.
8. The addition of graphical representations that display key metrics through bar graphs would improve both understanding and viewer engagement with the data.

## **Declarations**

**Potential competing interests:** No potential competing interests to declare.