Outcomes of Sepsis Patients using Noninvasive Cardiac Output Monitoring to Guide Fluid Resuscitation

Rosemary Lee  
*Homestead Hospital*, rosemarl@baptisthealth.net

Rosie Sanchez  
*Mariners Hospital*, RosieSa@baptisthealth.net

Laura Berni  
*Mariners Hospital*, LauraB1@baptisthealth.net

Joyce Nealey  
*Homestead Hospital*, JoyceN@baptisthealth.net

Maria Ojeda  
*Homestead Hospital*, mariaoj@baptisthealth.net

Follow this and additional works at: [http://scholarlycommons.baptisthealth.net/se-all-publications](http://scholarlycommons.baptisthealth.net/se-all-publications)  
Part of the [Cardiology Commons](http://scholarlycommons.baptisthealth.net/se-all-publications), and the [Nursing Commons](http://scholarlycommons.baptisthealth.net/se-all-publications)

Citation

Lee, Rosemary; Sanchez, Rosie; Berni, Laura; Nealey, Joyce; and Ojeda, Maria, "Outcomes of Sepsis Patients using Noninvasive Cardiac Output Monitoring to Guide Fluid Resuscitation" (2015). *All Publications*. Paper 592.  
[http://scholarlycommons.baptisthealth.net/se-all-publications/592](http://scholarlycommons.baptisthealth.net/se-all-publications/592)
Do critically ill patients with sepsis, severe sepsis, or septic shock who were exposed to the use of a nurse-driven protocol for NICOM® have improved mortality outcomes when compared to similar patients that were not exposed to NICOM®?

Methods

- IRB: April 16, 2014
- Design: Retrospective, matched case-control study.
- Data collection: Chart review.
- Sample:
  - Matched case control
  - Minimum sample size: 200
  - Variables used to match cases and controls: Age, gender, sepsis severity, race, APACHE score, co-morbidities.

Case definition: Adult ICU patients with sepsis, severe sepsis & septic shock who received NICOM-based fluid resuscitation.

Control definition: Adult ICU patients with sepsis, severe, sepsis & septic shock who received fluid resuscitation without the use of NICOM.

Analysis:

- Descriptive statistics and analytical statistics.
- Group comparison tests (Chi-square, T-test or Mann-Whitney U, etc.)
- Multiple logistic regression to determine predictive value of NICOM® exposure on mortality outcome.

Conclusions

- Study is in the data collection phase.

References


Acknowledgements

- Julie David, ARNP; Magnet Project Director – Financial support for this poster.