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Treating Early Sepsis Outside of the ICU Using a Bundle of Interventions

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Treating Early Sepsis Outside of the ICU Using a Bundle of Interventions

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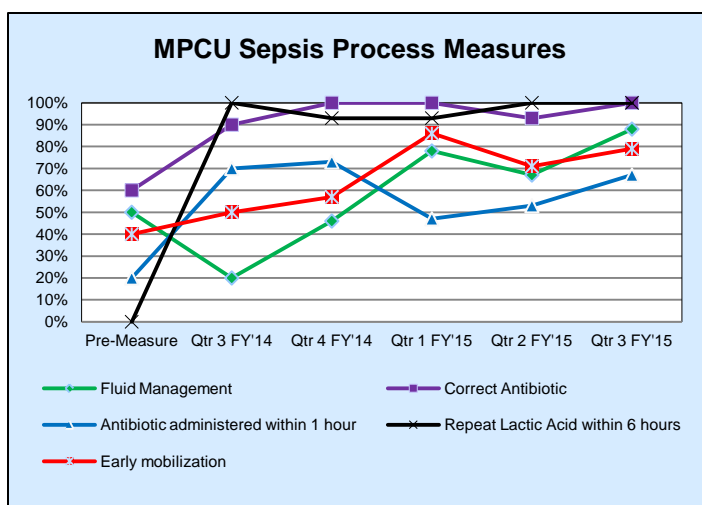
Plan

To decrease cost and length of stay for sepsis patients by standardizing treatment in the progressive care units (PCUs).

Do

- Order Set Development (intervention examples include):
 - 500mL fluid bolus if: HR greater than 100, UOP less than 30mL/hr, or SBP less than 90.
 - Lactic Acid stat and every 3 hours
 - Antibiotic selection based on infection source
 - Transfer to the ICU if HR remains greater than 100 or SBP remains less than 90 despite fluid boluses; increased oxygen requirement; lactic acid not trending down; or new mental status changes
- Staff and Provider Education:
 - Simulation
 - Posters
 - Emails
 - CBT
 - 1:1 coaching and follow up
 - Tip Sheets/Check lists
 - Ongoing follow up

Check



DRG	Avg. LOS FY'14 (7/1/13 - 6/30/14)	Avg. LOS FY'15 (7/1/14 - 2/28/15)	Direct cost per case (7/1/13 - 6/30/14)	Direct cost per case (7/1/14 - 2/28/15)
870 (septicemia or severe sepsis with mechanical vent 96+ hours)	14.60 days	14.09 days (↓ by 0.51 days)	\$42,641	\$42,590 (↓ by \$51)
871 (septicemia or severe sepsis w/o mechanical vent & with multiple co-morbidities)	6.25 days	6.01 days (↓ by .24 days)	\$11,682	\$11,205 (↓ by \$477)
872 (septicemia or severe sepsis w/o mechanical vent & w/o multiple co-morbidities)	4.13 days	4.04 days (↓ by .09 days)	\$5,940	\$5,687 (↓ by \$253)

Outcomes also associated with additional efforts in the ICU

Act

- September 2013
 - Septicemia Task Force identified need for bundled care in the PCUs
 - Formed a PCU Sepsis Team
- January 2014
 - Non-ICU Sepsis order set Go-Live
 - Mandatory MPCU RN and PCA education
 - Provider education
- March 2014
 - Order Set Revisions
 - 1:1 feedback
 - Updated sepsis simulation incorporated into PCU training
 - Mandatory PCA education
- April – October 2014
 - Ongoing monitoring
- November 2014
 - Further order set revisions
 - Spread and education provided to Neuro and Surgical Progressive Care Units
- December 2014 – Current
 - Ongoing monitoring
 - On boarding NPCU and SPCU in process measure evaluation

Team Members

- Jennifer Burris, APRN, CNS
- Dr. Jessie Roske
- Curt DeVos, BSN, RN, CNRN
- Peggy Lange, RT
- Jim Mahowald, PharmD
- Shellie Solinger, BSN, RN-C
- Libby Wenderski, BSN, RN, PCCN