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Time is Survival: Sepsis Continuing Education for Neurosurgical Critical Care Nurses

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Background

• Neurosurgical ICU nurses are in the prime position to assess early changes in altered-mental status. including "sepsis-associated encephalopathy", which could lead to early identification of sepsis. Nurses do not currently have a required continuing education for Sepsis nor use a Sepsis Screening Tool or Sepsis Management Bundle to guide their sepsis assessment or care.

Method

- This guality improvement project used the Advancing Research and Clinical practice through Collaboration (ARCC) model based on the evidence-based practice paradigm and process.
- Nurses took an online Sepsis **Continuing Education course** provided by the Sepsis Alliance Institute & pre/post-education surveys on their knowledge, confidence, attitudes, & practices to identify and treat sepsis.

Nurses' knowledge, attitudes, confidence, and practices related to the early identification and management of sepsis are crucial to patients' survival.

Online continuing education on sepsis increases nurses' knowledge and confidence to identify & manage sepsis.

Survey Responses: Significant Differences

Median response based on 5-point Likert scale. Nurses were asked to rate to what extent they agree with each statement. 1 strongly disagree, 2 – disagree, 3 = neither agree nor disagree, 4 = agree, 5 = strongly agree

Pre/Post Education Survey Means



• Increased knowledge of SSC's 1-hour bundle.

Increased confidence in the management of sepsis.

Outcomes

population.

Standardized online training

Hour-1 Bundle Campaign. Initial Resuscitation for Sepsis and Septic Shock Begin rapid administration 0 mL/kg cryst Remeasure lactate if initial lactate evated (> 2 mmol/ Obtain blood cultur before administerin antibiotics.

People

Education and surveys were administered to:

- N=23 Neurosurgical ICU Nurses, pre-education
- N=15 Neurosurgical ICU Nurses, post-education

Implications

- Offer yearly CE on sepsis for nurses.
- CE may empower nurses to advocate for early, life-saving sepsis interventions.
- Advocate for a Sepsis Screening tool and regular assessment of sepsis.
- Develop a nurse delegation protocol to initiate the evidencebased 1-hour SSC Sepsis Bundle.
- Continue to monitor unit-level sepsis data to determine how education influences early identification and survival.

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• Increased self-ratings of sepsis assessment during nurses' shifts. Consistently low self-ratings in the initiation of SSC's 1-hour bundle may be due to a lack of protocol.

Increased self-ratings in discussing sepsis risk & assessment with providers.

many possible confounding variables that lead to altered mental status in this specific patient

Early identification of sepsis in neurosurgical critical care patients is a significant challenge due to the