



Delirium screen and prevention audit

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Aim

Audit delirium screening of critical care patients using Intensive Care Delirium Screening Checklist (ICDSC) within 24 hours of admission and practices of delirium prevention at 72 hours.

Standards

Guidelines for the Provision of Intensive Care Services (GPICS) 2015¹⁰ Standard and recommendations on section 4.1.3; NICE guidance NCGC 103 from 2010¹³; Pain, Agitation, Delirium³ (PAD) guidelines from 2013. Delirium can be defined as an acute disturbance of the consciousness and cognitive function, fluctuating in nature. ⁶Misunderstood pathophysiology: disease driven process promoted by intrinsic risk factors (unique to each patient) and **Intensive Care Unit (ICU) environment related factors** (modifiable factors). ^{4,7,9} Associated with longer mechanical ventilation, high morbidity and mortality, increased length of stay (LOS) and hospital costs.⁴ ICDSC has moderate sensitivity and good specificity for delirium; Recommended by NICE along with CAM-ICU.

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Background



follow PAD guidelines:

Continue to and NICE

to nt

may arise re currer

Quality ir projects n i m p r o v e practices.

improvement

Discussion

Sedation levels and sedation holidays were not included in this audit however multiple studies have demonstrated the consequences of exposure to prolonged, deep sedation³

Moderate to severe pain are possibly still undertreated; pain levels were not audited on sedated patients. No tool for pain assessment for non-verbal patients was implemented at the time of the audit

Sleep quality was not audited: ICU patients are prone to reduced sleep and sleep fragmentation. Sleep deprivation may cause cognitive dysfunction.^{8,11}

Recommendations

Target sedation and use of Richmond Agitation-Sedation Scale^{3,5}

Adequate assessment with validated scoring systems and management of pain ^{1,3}

Early mobilization and rehabilitation, physical and occupational therapy; reorientation and cognitive stimulation ^{1,2,3,13,14}

Management of illness related risk factors¹³

Pharmacological management should be reserved for high-risk patients¹³.

Almost half of delirium cases were treated pharmacologically. Pharmacological interventions are costly and have shown no significant benefit for delirium prevention; ^{2,12,16} Nonpharmacological interventions may decrease the use of antipsychotics ¹⁵

Bowel management has an important role on the prevention of Delirium– unit's bowel management protocol was not followed in half of the patients' population.

Nevertheless, early rehabilitation and mobilization, reorientation strategies recommended are being achieved.

Sedation and sedation holiday audit;

Quality of sleep audit;

Multicomponent strategies for the management of Delirium reflecting its multidimensional nature-Delirium: care bundle – to incorporate care interventions known to minimize delirium.

Implementation of screening tools is an on-going process – training of new staff and update of senior members: ⁵