

UAMS MEDICAL CENTER
ACS SERVICES MANUAL

SUBJECT: SICU Sleep Protection Guidelines

PAGE: 1 of 3

REVIEWED/REVISED: new

EFFECTIVE: 12/15/2022

RECOMMENDATION(S): Dr. N. Bruce, Shannon Wilkerson, RN

APPROVAL: 12/15/2022

CONCURRENCE(S): Trauma Faculty

PURPOSE:

To provide a framework for promoting a sleep-conducive environment for patients in the Surgical ICU during usual sleep hours (2200 to 0400).

EXCLUSIONS:

This protocol is intended to include all SICU patients (including those on mechanical ventilation and sedation), except patients that are:

- Undergoing active resuscitation (i.e. multiple blood products)
- Substantial vasopressor requirement (norepinephrine > 10 mcg/min or multiple vasopressors besides vasopressin)
- Admitted during the planned protected sleep time
- Undergoing procedures during the planned protected sleep time
- Q1 neuro checks (Acute TBI's without stable head CT)
- Open chest
- SICU attending discretion

BACKGROUND:

Sleep is an integral part of health and happiness. In critically ill patients, sleep is often fragmented, if achieved at all. In a study analyzing the polysomnography of ICU patients at a tertiary referral center, the median sleep period was 3 minutes and the majority of sleep achieved was stage 1 or 2 (non-restorative) sleep (1). Poor sleep in the ICU, in addition to being a significant stressor for our patients, is a risk factor for delirium, which in turn is associated with increased length of stay and mortality. The Society of Critical Care Medicine “recommend(s) promoting sleep in adult ICU patients by optimizing patients’ environments, using strategies to control light and noise, clustering patient care activities, and decreasing stimuli at night to protect patients’ sleep cycles” (2). Given this background, we should strive to promote a sleep-hospitable ICU culture and environment for our patients.

MANAGEMENT ALGORITHM:

For all patients qualifying for Sleep Protection protocol, the SICU MD should place a communication order that says “Initiate Nurse-Driven ICU Sleep Protocol”. All patients should qualify for this protocol by default unless included in the above “exclusions”. This should ideally be discussed on daily AM rounds. It is incumbent upon the bedside nurse to promote this for their assigned patients.

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PAGE: 2 of 3

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- During the day, the assigned nurse should:
 - Discuss with treatment team on AM rounds the appropriateness for Sleep Protocol. Any concerns related to sleep from the previous night and delirium screen should be discussed, as well.
 - Discuss with treatment team any vascular or neuro checks that may be spaced out or discontinued, and that the orders reflect that.
 - Discuss with treatment team what pharmacologic therapy for sleep may be appropriate for the patient and ensure it is ordered.
 - Ensure pain is adequately controlled
 - Oral Melatonin 3mg at 2000 should be the first line agent for all patients that can have enteral medications in the ICU. Can increase by 3mg each day as needed to titrate to effect (up to 9mg).
 - Second line agents include:
 - Oral/Tube
 - Trazodone 50mg at 2100. Can increase by 50mg each day as needed (may need doses of 100 to 150 to affect sleep significantly). Can precipitate serotonin syndrome if used concurrently with SSRI's.
 - Quetiapine (Seroquel) 25 to 50mg at 2100. Can increase by 25 mg/day as needed. Monitor for QT prolongation.
 - IV (if can't get enteral medications)
 - Olanzapine (Zyprexa) 5mg at 2100. Can increase by 2.5 mg/day as needed. Monitor for QT prolongation.
 - Obtain the communication order to "Initiate Nurse-Driven ICU Sleep Protocol".
 - Re-time labs and medication administrations to align outside of protected sleep time (2200 to 0400), as possible.
 - Ensure that the window blinds are up and the patient is out of bed (if applicable) during the day shift.

- At night, the assigned nurse should:
 - Remind the assigned Respiratory Therapist that patient has a sleep protocol in place.
 - Re-time ROUTINE labs for outside of the 2200-0400 window, if not already done. STAT or TIMED labs will be drawn during that time frame, though.
 - Remind staff, x-ray, respiratory, and other pertinent staff members to not enter the patient room between 2200-0400. "Daily" x-rays can be performed in the 0400-0600 window.
 - 2300 head-to-toe assessment can be performed prior to protected sleep time.
 - Perform oral care before and after protected sleep time.
 - If the patient has an arterial line, turn off and disconnect the blood pressure cuff during the protected sleep time. Use arterial line for any needed lab draws.
 - Administer sleep pharmacology medications, if appropriate, and ensure pain is adequately controlled.
 - At 2200:

These guidelines were prepared by the UAMS ACS Division. They are intended to serve only as a guideline based on current review of the medical literature and practice. They are neither policies nor protocols. Their use is at the discretion of the managing physician.

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- The TV and lights should be turned off, shades drawn, and doors closed.
 - IV and monitor alarms should be turned on low or silenced.
 - The patient should be offered a sleep mask and earplugs.
 - Hold each other accountable to minimize noise and distractions.
 - Cluster care/ nursing interventions, when possible.
 - Place patient on preferred side for sleep to prevent backside skin breakdown.
- Post “Staff, do NOT enter, sleep protocol in place” sign on patient’s door.

References:

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