

**ST. DOMINIC-JACKSON MEMORIAL HOSPITAL
JACKSON, MISSISSIPPI**

Date & Time	Sedation Protocol for Mechanically Ventilated Patients	Page 1 of 4
<p>FOR CONTINUOUSLY MONITORED PATIENTS IN THE ICU SETTING <i>If adjunct restraint is used, the appropriate order form must be completed</i></p>		
<p>Drug Allergies: _____</p> <p><input type="checkbox"/> NKA</p>		
<p><input type="checkbox"/> Consult ICU Pharmacotherapist to assist with initiation and titration of analgo-sedation during mechanical ventilation</p>		
<p><u>Early Mobility:</u></p> <p><input type="checkbox"/> Consult PT/OT to evaluate and treat daily for early mobilization</p> <p>Exclusions for Aggressive Mobilization</p> <ul style="list-style-type: none"> • Significant vasopressor requirement (multiple pressors, or norepinephrine monotherapy > 10 mcg/min) • Mechanical ventilation requirement of FiO₂ > 80% and/or PEEP > 12; or acutely worsening respiratory failure • Use of neuromuscular paralysis • Currently in acute neurological event (CVA, SAH, ICH) • Unstable spine or extremity fractures • Grave prognosis, transitioning to comfort care • Open abdomen, or at risk for wound dehiscence • Actively bleeding • Bed rest order 		
<p><u>Special Instructions:</u></p> <ul style="list-style-type: none"> • These orders are NOT indicated for the following situations: <ul style="list-style-type: none"> ○ Alcohol or benzodiazepine withdrawal ○ Patients with status epilepticus • Do NOT use Richmond Agitation Sedation Scale (RASS) or Critical Care Pain Observation Tool (CPOT) for patients receiving neuromuscular blockade • Consider PAIN medications PRIOR to administration of sedative agents and/or painful procedures • Discontinue Sedation Protocol upon extubation (new orders must be written to continue analgesics and/or sedatives) • Re-evaluate analgesia/sedation goals DAILY • For ALL analgesics and sedatives, intermittent bolus dosing is preferred over continuous infusions 		

DOCTOR'S ORDERS



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Pharmacy Mnemonic: SEDATE2		
Select One Level Only: <input type="checkbox"/> Initial Order <input type="checkbox"/> Change Order (discontinue previous level of sedation)		
<u>Medications: (select ONE level ONLY)</u>		
<input type="checkbox"/> LEVEL 1: ESTABLISH & ACHIEVE LIGHT SEDATION; MANAGE ACUTE PAIN/AGITATION		
<u>Goals:</u> <ul style="list-style-type: none"> • Pain via CPOT: _____ (< 3 recommended) Note: CPOT < 3 in patient with abnormal mentation does NOT rule out presence of pain • Sedation via RASS: _____ (-2 to +1 recommended) • Nurse to perform CAM-ICU every 12 hours for delirium monitoring 		
<input type="checkbox"/> Fentanyl 50 mcg IVP every 5 minutes PRN pain (CPOT > 3; maximum 2 doses per hour) <ul style="list-style-type: none"> • For unrelieved pain after 2 doses, may increase to 100 mcg IVP every 5 minutes PRN pain (maximum 2 doses per hour) <p>OR</p> <input type="checkbox"/> Dilaudid (hydromorphone) 0.5 mg IVP every 15 minutes PRN pain (CPOT > 3; maximum 2 doses per hour) <ul style="list-style-type: none"> • For unrelieved pain after 2 doses, may increase to 1 mg IVP every 15 minutes PRN pain (maximum 2 doses per hour) <p><u>If patient receives four (4) analgesic boluses in one hour, nurse may initiate Fentanyl infusion (if selected below)</u></p> <input type="checkbox"/> Fentanyl 10 microgram/ml infusion _____ (usual starting dose 50 mcg/hr); titrate by 25 mcg/hr every 15 minutes to achieve goal CPOT and RASS. Maximum 400 mcg/hr. <p><u>Nurse may initiate sedative if:</u></p> <ul style="list-style-type: none"> • Patient attains goal pain score but RASS is above goal • RASS is not attained after Fentanyl infusion has been titrated to 100 mcg/hr <input type="checkbox"/> Propofol 10,000 mcg/mL infusion: Initiate at 10 mcg/kg/min. May titrate by 10 mcg/kg/min every 5 minutes to a maximum of 50 mcg/kg/min to achieve goal RASS <ul style="list-style-type: none"> • Consider checking serum CPK and triglycerides periodically during therapy, especially if used > 3 days and at high infusion rates <p>OR</p> <p><i>Patients with significant hemodynamic instability, propofol intolerance, or have received high-dose propofol for > 3 days:</i></p> <input type="checkbox"/> Midazolam 100mg in 100 mL infusion (1:1): Initiate at 1 mg/hr. Titrate by 1 mg/hr every 30 minutes to a maximum of 10 mg/hr to achieve RASS goal <ul style="list-style-type: none"> • Note that benzodiazepine use is associated with delayed awakening, increased delirium, and duration of mechanical ventilation • Use lowest dose possible to attain RASS and switch or discontinue sedative when clinically appropriate <p>Nursing instructions:</p> <ol style="list-style-type: none"> 1. <u>Assess level of pain and sedation via CPOT and RASS every 4 hours and every 30 min PRN after boluses or infusion rate changes</u> 2. <u>Coordinate discontinuation of analgesic and sedative infusions with morning spontaneous breathing trials (SBT)</u> 3. <u>Upon SBT failure, reinitiate analgesic and sedative infusions at 50% of previous rate</u> 		

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	Pharmacy Mnemonic: SEDATE3	
	<input type="checkbox"/> LEVEL 2: Deep sedation is indicated; for example patients on neuromuscular blockade, therapeutic hypothermia, or those whose clinical status requiring deeper level of sedation (refractory hypoxemia, elevated peak airway pressures.)	
	<u>Goals:</u> <ul style="list-style-type: none"> • Pain via CPOT: _____ (< 3 recommended) Note: CPOT < 3 in patient with abnormal mentation does NOT rule out presence of pain • <u>Sedation Goal:</u> <ul style="list-style-type: none"> <input type="checkbox"/> RASS -4 to -5 <input type="checkbox"/> Other (ie. ventilator synchrony, peak airway pressure control, etc.): _____ 	
	<u>Continuous Analgesic:</u> <input type="checkbox"/> Fentanyl 10 microgram/ml infusion _____ (usual starting dose 50 mcg/hr); titrate by 25 mcg/hr every 15 minutes to achieve goal CPOT and RASS. Maximum 500 mcg/hr. <u>Continuous Sedative:</u> <input type="checkbox"/> Propofol 10,000 mcg/mL infusion: Initiate at 10 mcg/kg/min. Titrate up by 10 mcg/kg/min every 5 minutes to goal sedation target. Maximum 50 mcg/kg/min <ul style="list-style-type: none"> • Consider checking serum CPK and triglycerides periodically during therapy, especially if used > 3 days and at high infusion rates <p>OR</p> <i>Contraindication or Intolerance to Propofol:</i> <input type="checkbox"/> Midazolam 100mg in 100 mL NS infusion (1:1): Initiate at 1 mg/hr. Titrate by 1 mg/hr every 30 minutes to a maximum of 10 mg/hr to achieve goal sedation target	



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	Pharmacy Mnemonic: SEDATE4
	<p><u>Other:</u> Patients in whom extubation is anticipated within 24 hours and are at high-risk for failing ventilator weaning due to agitation:</p> <p><input type="checkbox"/> Precedex (dexmedetomidine) 200 mcg in 50 mL NS infusion: Initiate at 0.3 mcg/kg/hr; titrate by 0.2 mcg/kg/hr every 15-30 minutes until RASS of 0 to-1 is attained. Titrate to maximum of 1.5 mcg/kg/hr as needed</p> <ul style="list-style-type: none"> • Hold for HR <60 and MAP < 70 • Reduce analgesic infusions or boluses by 50% during dexmedetomidine therapy • Wean previous sedative infusions by 25% every 30 minutes when dexmedetomidine initiated • May be continued through SBT and weaned after extubation
	<p>Adjunctive Neuroleptic:</p> <p><input type="checkbox"/> Obtain 12-lead EKG x 1</p> <p><input type="checkbox"/> Haldol (haloperidol) 5 mg IV every 30 minutes PRN RASS +2 or greater</p> <ul style="list-style-type: none"> • May increase to 10 mg IV every 30 minutes after 2 consecutive doses • Hold if QTc > 500 msec <p><input type="checkbox"/> Olanzapine 5 mg IM every 4 hours PRN RASS +2 or greater</p> <ul style="list-style-type: none"> • Hold if QTc > 500 msec

_____/_____
Date Time

Physician Signature

DOCTOR'S ORDERS

