ICU Continuous Infusion Neuromuscular Blockade in Mechanically Ventilated Patients [4121]

o Please use "ICU Continuous Sedation & Analgesia Order Set" for continuous sedation and analgesic medications.

o For use of continuous neuromuscular blockers in therapeutic hypothermia, please use the "Adult Hypothermia Post Cardiac Arrest Order Set" for appropriate dosing and monitoring parameters.

o DVT prophylaxis is recommended for patients on neuromuscular blockade unless clinically contraindicated.

o Maximum recommended duration typically 48 hours. Review of necessity of neuromuscular blockers every 24 hours.

Protocol

General

Nursing

Nursing (Selection Required)

[X] RASS score must be -4 before neuromuscular blockade	Routine, Until discontinued, Starting S
[X] Assess	Routine, Once
	Assess: Critical Care Pain Observation Tool (CPOT) LESS
	than 2 prior to initiation of neuromuscular blockade
[X] Obtain baseline Train of Four (TOF) prior to	Routine, Until discontinued, Starting S
neuromuscular blocking agent initiation (bolus & drip).	Obtain baseline Train of Four (TOF) prior to neuromuscular
Label site and use the same site every time TOF	blocking agent initiation (bolus & drip). Label site and use the
performed.	same site every time TOF performed. Obtain Train of Four
•	(TOF) monitoring every 1 hour to achieve and maintain 2 of 4
	TOF, then obtain a TOF every 4 hours. Use TOF monitoring in
	conjunction with clinical assessment.
[X] Nursing communication	Routine, Until discontinued, Starting S
	BIS Monitoring Goal of 40 to 60 for sedation. Do not hold
	sedation or perform spontaneous awaken trial while patient on
	continuous neuromuscular blocking agent.
[X] Patient position:	Routine, Until discontinued, Starting S
	Position:
	Additional instructions:
	Reposition patient every 2 hours to prevent pressure ulcer.
[X] Nursing communication	Routine, Until discontinued, Starting S
	Change IV line infusion neuromuscular blocker (cisatraciurium
	or vecuronium) prior to extubation to ensure complete
	medication elimination/removal.

Medications

Infusions for Sedation

[] fentanyl (SUBLIMAZE) or hydromorPHONE (DIL	_AUDID)
infusion - HMSJ Only (Single Response) () fentaNYL (SUBLIMAZE) 1500 mcg/30 mL infusion	 intravenous, continuous If LESS than desired sedation effect: administer ordered BOLUS dose IV Once and increase rate by 25 micrograms/hour then reassess sedation in one hour. If DESIRED sedation effect: Continue the same rate. Reassess sedation within 4 hours. If GREATER than desired sedation effect: Decrease rate by 25 micrograms/hour and reassess sedation within one hour. If patient requires GREATER than 200 micrograms/hour fentanyl, contact MD to re-evalute sedation therapy. Maximum recommended dose 300 micrograms/hour.

 hydromorPHONE (DILAUDID) 30 mg/30 mL in sodium chloride 0.9% infusion 	intravenous, continuous If LESS than desired sedation effect: administer ordered BOLUS dose IV
	Once and increase rate by 0.5 milligrams/hour then reassess sedation in
	one hour.
	If DESIRED sedation effect: Continue the same rate. Reassess sedatio within 4 hours.
	If GREATER than desired sedation effect: Decrease rate by 0.5
	milligrams/hour and reassess sedation within one hour.
	If patient requires GREATER than 2 milligrams/hour hydromorphone,
	contact
	MD to re-evaluate sedation therapy.
	Maximum recommended dose 3 milligrams/hour.
fentanyl (SUBLIMAZE) or hydromorPHONE (DIL	
infusion - NOT HMSJ (Single Response)	
() fentaNYL (SUBLIMAZE) 1500 mcg/30 mL	intravenous, continuous
infusion	If LESS than desired sedation effect: administer ordered BOLUS dose IV
	Once and increase rate by 25 micrograms/hour then reassess sedation i
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	hour.
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	If patient requires GREATE R than 200 micrograms/hour fentanyl, conta
	MD
	to re-evalute sedation therapy.
	Maximum recommended dose 300 micrograms/hour.
() hydromorPHONE (DILAUDID) 15 mg/30 mL	intravenous, continuous
infusion	If LESS than desired sedation effect: administer ordered BOLUS dose IV
	Once and increase rate by 0.5 milligrams/hour then reassess sedation in
	one hour.
	If DESIRED sedation effect: Continue the same rate. Reassess sedation
	within 4 hours.
	If GREATER than desired sedation effect: Decrease rate by 0.5
	milligrams/hour and reassess sedation within one hour.
	If patient requires GREATER than 2 milligrams/hour hydromorphone,
	contact
	MD to re-evalute sedation therapy.
	Maximum recommended dose 3 milligrams/hour.
propofol (DIPRIVAN) infusion	
[] propofol (DIPRIVAN) infusion	0-50 mcg/kg/min, intravenous, continuous
	After Initiation, reassess RASS after 30 minutes. Titrate for sedation to
	reach RASS goal. Once patient maintains RASS at goal, assess RASS
	every 4 hours.
	LESS than desired sedation effect: Other
	Specify: INCREASE rate by 5 mcg/kg/min.
	DESIRED sedation effect: Continue the same rate.
	GREATER than desired sedation effect: DECREASE rate 5 mcg/kg/min
	while titrating sedation to meet RASS goal, Reassess RASS every 30
	minutes
	If patient requiring GREATER than: 50 mcg/kg/min, Contact MD to
	I patient requiring GREATER than. So mcg/kg/min, Contact MD to
	re-evaluate sedation therapy
lorazepam (ATIVAN) or midazolam (VERSED) ini	re-evaluate sedation therapy

 intravenous, continuous If LESS than desired sedation effect: administer ordered BOLUS dose IV Once and increase rate by 0.5 milligram/hour then reassess sedation in one hour. If DESIRED sedation effect: Continue the same rate. Reassess sedation within 4 hours. If GREATER than desired sedation effect: Decrease rate by 0.5 milligram/hour and reassess sedation within one hour. If patient requires GREA TER than 5 milligram/hour lorazepam, contact MD to re-evaluate sedation therapy. Maximum recommended dose 10 milligrams/hour.
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HMSTC (Single Response)

() LORAZepam (ATIVAN) 60 mg/30 mL infusion	intravenous, continuous If LESS than desired sedation effect: administer ordered BOLUS dose IV Once and increase rate by 0.5 milligram/hour then reassess sedation in
	one hour. If DESIRED sedation effect: Continue the same rate. Reassess sedatior
	within 4 hours.
	If GREATER than desired sedation effect: Decrease rate by 0.5 milligram/hour and reassess sedation within one hour.
	If patient requires GREATER than 5 milligram/hour lorazepam, contact
	MD
	to re-evaluate sedation therapy.
	Maximum recommended dose 10 micrograms/hour. Indication(s): Sedation
() MIDAZolam (VERSED) 30 mg/30 mL infusion	intravenous, continuous
	If LESS than desired sedation effect: administer ordered BOLUS dose IV Once and increase rate by 0.5 milligram/hour then reassess sedation in
	one hour. If DESIRED sedation effect: Continue the same rate. Reassess sedatior
	within 4 hours.
	If GREATER than desired sedation effect: Decrease rate by 0.5
	milligram/hour and reassess sedation within one hour. If patient requires GREATER than 5 milligram/hour midazolam, contact
	MD
	to re-evaluate sedation therapy.
	Maximum recommended dose 10 milligrams/hour.
	Indication(s): Sedation
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() cisatracurium (NIMbex) IV Bolus and Contin Infusion	uous "Followed by" Linked Panel
Recommended for patients with renal or hep	patic failure.
[] Obtain baseline Train of Four	1 each, Other, once
[] cisatracurium (NIMbex) IV bolus	0.15 mg/kg, intravenous, once, For 1 Doses
[] cisatracurium (NIMbex) infusion	1-10 mcg/kg/min, intravenous, continuous **PROGRAM INFUSION PUMP WITH WEIGHT NOTED IN ORDER MEDICATION DOSED BY IDEAL BODY WEIGHT**
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() vercuronium (NORCURON) Continuous Infu	
Use caution in patients with renal or hepatic	dysfunction
[] Obtain baseline Train of Four	1 each, Other, once
	0.8-1.5 mcg/kg/min, intravenous, continuous
	PROGRAM INFUSION PUMP WITH WEIGHT NOTED IN ORDER MEDICATION DOSED BY IDEAL BODY WEIGHT
	Initiate infusion at 0.8mcg/kg/min. Titrate by 0.1 mcg/kg/min every hour to achieve 2 of 4 Train of Four (TOF). Once at 2 of 4 TOF, repeat TOF in four hours. IF TOF GREATER than 2/4, INCREASE infusion rate by 0.1 mcg/kg/min. Monitor TOF every hour to achieve and maintain 2 of 4 TOF. Once at 2 of 4 TOF, repeat TOF in four hours. IF TOF 2 of 4, CONTINUE the same infusion rate, then repeat TOF in 4 hours. IF TOF LESS than 2 of 4, DECREASE infusion rate by 0.1 mcg/kg/min. Monitor
	TOF every hour to achieve and maintain 2 of 4 TOF. Once at 2 of 4 TOF, repeat TOF in four hours. Max dose 1.5mcg/kg/min.
() vercuronium (NORCURON) IV Bolus and Co Infusion	ontinuous "Followed by" Linked Panel
Use caution in patients with renal or hepatic	dysfunction
[] Obtain baseline Train of Four	1 each, Other, once
[] vecuronium (NORCURON) IV bolus	0.1 mg/kg, intravenous, once, For 1 Doses
[] vecuronium (NORCURON) infusion	0.8-1.5 mcg/kg/min, intravenous, continuous **PROGRAM INFUSION PUMP WITH WEIGHT NOTED IN ORDER MEDICATION DOSED BY IDEAL BODY WEIGHT**
	Initiate infusion at 0.8mcg/kg/min. Titrate by 0.1 mcg/kg/min every hour to achieve 2 of 4 Train of Four (TOF). Once at 2 of 4 TOF, repeat TOF in four hours. IF TOF GREATER than 2/4, INCREASE infusion rate by 0.1 mcg/kg/min. Monitor TOF every hour to achieve and maintain 2 of 4 TOF. Once at 2 of 4 TOF, repeat TOF in four hours. IF TOF 2 of 4, CONTINUE the same infusion rate, then repeat TOF in 4 hours. IF TOF LESS than 2 of 4, DECREASE infusion rate by 0.1 mcg/kg/min. Monitor TOF every hour to achieve and maintain 2 of 4 TOF. Once at 2 of 4 TOF, repeat TOF in four hours. Max dose 1.5mcg/kg/min.
Dphthalmic Lubricant	
X] artificial tears ointment	Both Eyes, every 4 hours Place and close patient's eyelid while on continuous neuromuscular blocking agent.

Labs

Cardiology

Imaging

Other Studies

Respiratory

Rehab

Consults

For Physician Consult orders use sidebar

Additional Orders