

PROTOCOL DOCUMENT :

PCA (Patient Controlled Analgesia): Patient Care

Site Applicability:

Acute care units at St. Paul's Hospital, Mount Saint Joseph Hospital

Skill Level:

Registered Nurses (RN) who have completed PCA pump education and training and maintain Q2 yearly competency review

Quick Links – General

- 1. Assessment and monitoring parameters
- 2. Sedation assessment using Pasero Opioid Sedation Scale (POSS)
- 3. Managing Side effects

Need to Know:

- Intravenous Patient Controlled Analgesia (PCA) allows a patient to administer a preset intravenous
 (IV) opioid dose via an approved programmed Smartpump and attached PCA module. The patient
 can administer the IV opioid dose by pressing a button on the patient request cord connected to the
 Smartpump PCA module. The pump is programmed to deliver a preset dose of medication at a
 specific frequency.
- All changes in programming (including bolus doses) will be independently checked by a second PCA pump competency assessed RN or other qualified clinician (i.e. anesthesiologist) (See <u>B-00-07-10044</u> Independent Double Check and Double Check of Medication)
- When a patient with a PCA is transferred from a critical care unit (ICU/CSICU/CICU/PACU) to an
 acute care unit, it is the responsibility of the nurse in the critical care unit to change the drug library
 from the critical care library to the adult-general library (pump settings). The nurse on the acute
 care unit is responsible for ensuring the correct pump settings and drug library are selected.
- When a patient is transferred between critical care units, a hand-over report will occur between the 'sending nurse' and the 'receiving nurse' ensuring the appropriate drug library is selected upon transfer and admission to the new unit.

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- Sedation precedes opioid induced respiratory depression. Over sedation, if left untreated, can lead to opioid induced respiratory depression. Patient safety can be enhanced by systematic and thorough sedation assessments, close monitoring and careful management of the PCA pump. It is necessary to include patient and family education to ensure that only the patient presses the PCA control button.
- IV patient controlled analgesia must be ordered by the Acute Pain Service (APS) or by a member of the Department of Anesthesia using a PCA Powerplan in Cerner. Nursing care of the patient with IV PCA is a specialized nursing skill and as such can only be carried out by nurses who are skill checked and qualified to do so.
- The registered nurse will provide and reinforce patient and family education regarding PCA safety. The RN will initiate and manage the IV PCA pump, monitor and document the patient's response to PCA therapy, including but not limited to sedation assessment/scale, pain assessment/scale and side effects. The RN will verify all initial and changes to pump programming, and changes to the infusion system with an independent double check with a second RN.
- Patients receiving PCA therapy will be admitted to areas that are adequately staffed with RNs who have demonstrated PCA infusion pump competency.

Equipment & Supplies

- 1. Alaris® PC CareFusion Pump
- 2. Alaris® Syringe or PCA Pump Module
- 3. Alaris PCA tubing set
- 4. Cerner WOW
- 5. Medication syringe for intravenous infusion

Infusion System Safety

- PCA therapy will only be provided through an approved PCA Smartpump, utilizing the PCA drug library and approved orders.
- The PCA request cord will have a label that states "Patient use only".
- PCA tubing, with no additional ports or access points will be used for all IV PCA therapy.
- PCA tubing will be directly connected to the IV cannula with/without saline lock or directly to the central line port.
- All PCA syringes will be prepared by Pharmacy (or commercially obtained by pharmacy). No additional medications can be added to PCA syringes outside of pharmacy.

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 All initial programming and changes to the pump programming or infusion system will be completed by a competency assessed Registered Nurse and verified by an independent double check completed by another qualified clinician (i.e. Anesthesiologist or Registered Nurse).

- The PCA pump will be locked and access to programming or medication will be secured throughout patient use.
- The PCA keys are to be kept in a secure location such as a lock box or locked drawer.
- All PCA medication wastage should be documented, recorded and witnessed in the ADC (Omnicell), see <u>B-00-07-10061</u> Automated Dispending Cabinets (ADC): Omnicell.

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Assessment and Monitoring

- At the start of each shift the RN will visually check the following:
 - o Cerner PCA PowerPlan e.g. APS/ANES PCA Hydromorphone (initiated)
 - Cerner APS/ANES Multi-Modal Pain Management Powerplan (initiated by ward nurse on admission)
 - Drug and concentration of the PCA syringe
 - o Pump programming
 - Shift total cleared from previous shift
 - o Ensure that a label indicating "patient use only" is attached to the PCA request cord
- Change the PCA tubing Q96 hours and/or more frequently PRN
- Ensure that the following equipment is in working order and readily available:
 - Resuscitation bag and mask
 - Oxygen equipment
 - Suction

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Monitoring Parameters:

ASSESSMENT	FREQUENCY		
Sedation scale	Initiation:		
Respiratory rate, rhythm, and	• Q15 min X 30 min,		
quality	• Q1h X 4h		
Pain assessment	Q2H x for total 24 hours, then Q4H for duration of therapy		
	Post bolus dose:		
Respiratory Rate: Should be	Q15 min X 30 min then PRN		
counted for 30 seconds and if	Post increase in PCA dose OR decrease in lock out interval:		
respiratory rate is less than 12/minute, then it should be	Q1H X 2 hours then PRN		
counted for a full minute.	Change in patient status (increasing sedation):		
	Consider decreasing dose / removing PCA cord		
	 Q30 minutes until Pasero Opioid-Induced Sedation Scale (POSS) score 2 or less 		
	If patient is asleep assess respiratory rate, rhythm, quality prior to waking them		
S O DD O I	Q15 min X 30 min then Q1H X 4H then		
SpO ₂ , BP & pulse	Q4H for duration of therapy		
	• Q4h – 1000h, 1400h, 1800, 2200h, 0200h, 0600h		
	o Press Channel Select on PCA module		
	 Options (blue button, on left side of main infusion pump 		
Pump history:	screen)		
Number of doses	 Patient history 		
attempted (demands)	o Zoom to 24 hours		
Number of doses	o Document:		
delivered	 Number of doses attempted (demands)- cumulative- record exactly as displayed 		
	 Number of doses delivered–cumulative – record exactly as displayed 		
	Q12h- 0600h & 1800h		
	 Press Channel Select on PCA module 		
	o Options		
Class Division bistoms at and of	 Patient history 		
Clear Pump history at end of shift	o Zoom to 24 hours		
J.III.	o Document:		
	■ Total Drug		
	 Total number of doses attempted (demands) 		
	 Total number of doses delivered 		
	o Press Clear History		

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Other Assessments	Maintain IV access for duration of therapy	
	Assess system integrity Q shift	
	 Remind patient and families that only the patient can press 	
	the patient dose request cord button	

Sedation Assessment using Pasero Opioid Sedation Scale (POSS):

- The Pasero Opioid-Induced Sedation Scale (POSS) is the standard scale used for assessing and documenting opioid induced sedation <u>Appendix A</u>
- Patients who are initiated on PCA, have their dose increased, or have their PCA opioid changed (i.e. from morphine to HYDROmorphone) will be woken during the first 24 hours for sedation assessments
- All patients switched from IV PCA to oral opioid analgesics will be woken for sedation assessments during the first 24 hours of oral opioid therapy

Procedure for Sedation Assessment:

- 1. Enter room and approach patient. Note the depth and rate of breathing. Count for a full 30 seconds (if respiratory rate is less than 12/minute, then it should be counted for a full minute)
- 2. Ask a simple question e.g. "What did you have for breakfast?"
- 3. Note how/when the patient wakes up

POSS Scale with Interventions:

1	Patient is awake when you enter or wakes before you speak		
2	Patient wakes when you speak and is able to answer your question		
3	Patient falls asleep mid-sentence or falls asleep while you are talking with them		
	Intervention Required		
	Stop any ongoing opioid infusion or PCA		
	NOTIFY APS team/anesthesiology		
	 Increase monitoring Q30min until patient 2 or less on the POSS 		
4	Patient is somnolent with minimal to no response to verbal and/or physical stimulation		
	Intervention Required		
	Call a Code Blue		
	Administer naloxone as ordered and notify APS team/ anesthesiology STAT		
	Continue to monitor respiratory status and sedation level closely until sedation		
	level is 2 or less on the POSS and respiratory rate is greater than 10/min		
	DO NOT re-start PCA therapy prior to assessment by the APS team/anesthesiology		

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Potential Complications and Side Effects of PCA:

Side Effect	Prevention and-Management	Notes
Nausea and vomiting	 Administer antiemetics as ordered PRN If attempts to control nausea and vomiting are unresolved, contact APS or anesthesia 	Nausea can be as distressing as pain
Pruritus	Administer diphenhydramine as ordered	 Pruritus does not always require treatment Assess your patient for itching and if it is disturbing, initiate treatment
Urinary retention	Manage urinary retention as per <u>B-00-13-10121</u> Urinary Retention: Management for the Prevention of UTI	
Decreased gastric motility (constipation)	 Assess and record bowel movements in Cerner system assessment: Gastrointestinal Assess for flatus and bowel sounds 	 Most common opioid side effect Can progress to severe GI dysfunction including ileus, fecal impaction or obstruction

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Potential Problem	Int	terventions		
Managing Unrelieved Pain	•	Assess PCA / IV tubing and IV site to rule out any mechanical problems such as IV infiltration, dislodgement, disconnection etc.		
	•	Ensure patient has understanding of how PCA works and is using it appropriately		
		Assess sedation using POSS, assess what the possible issue is and provide bolus dose if ordered:		
		 Is it that the patient is sleeping and not using the PCA and then waking in pain? 		
	•	Is it that the dose is too low and seems ineffective? – consider increasing the PCA dose as ordered. Reassess pain, sedation (POSS) and respirations q15 min x 2 post bolus dose. If pain is still not controlled, repeat bolus dose and assessment. If pain still not controlled, call APS/ anesthesiologist.		
	•	Other things to consider:		
		 Is the pain neuropathic in nature (burning, shooting, pins and needles)? 		
		Reassess for analgesic appropriate for neuropathic pain.		
		 Is the patient receiving multimodal analgesia? 		
		Consider adding acetaminophen or a non-steroidal anti- inflammatory drug if appropriate		
		 Did the patient have a laparoscopic procedure and is having gas pain? 		
		 Encourage ambulation, position changes and consider a warm blanket. Is there a cause for increased pain? 		
	•	Assess for bladder distension, ileus (bowel sounds, abdominal distention). If pain continues despite increased analgesia and in consultation with APS, notify surgeon to assess.		

Documentation:

See Appendix B for details regarding documentation

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Pain Management after PCA Discontinued:

- Once patient is ready to have PCA discontinued, follow ANES/Transfer Pain Management Powerplan.
- If pain is not acceptable, contact MRP for assessment and new orders or to re-contact APS.

Patient/Family Education:

- 1. Assess the patient's understanding of how and when to use IV PCA for pain management.
- 2. Provide patient/family with an educational pamphlet from the preadmission clinic or Acute Pain Service/Anesthetist (where appropriate).
- 3. Teach the patient and family about pain control via IV PCA according to their learning needs:
 - Only the patient can press the "patient control analgesia button". Reinforce that this is a main safety feature of the pump
 - Frequency of assessments
 - o Possible side effects and when to notify nurse
 - o Pain assessment scale and realistic comfort goal

Related Documents and Resources:

- 1. B-00-12-10007 Alaris® PC CareFusion Edition Infusion Pump with Guardrails
- 2. <u>Directions for Use: Alaris® System Model 8015</u>
- 3. B-00-07-10061 Automated Dispensing Cabinets (ADC): Omnicell
- B-00-12-10004 Alaris (IVAC) Signature Edition Volumetric Infusion Pump, (7130 and 7230)

References:

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- 9. Fraser Health: CLINICAL PROTOCOL: Adult Intravenous Patient Controlled Analgesia for Surgical/Trauma Patients (date/2016)
- 10. Fraser Health: CLINICAL PROTOCOL: Assessment and Management of Sedation and Respiration During Opioid Therapy for Adult Patients in Acute Care (Non Palliative) (1 October 2013)
- 11. San Diego Patient Safety Task Force. (2014). *Tool kit: Patient controlled analgesia (PCA) guidelines of care; Respiratory Monitoring of Patients outside the ICU.*

Persons/Groups Consulted:

Pharmacy Supervisor, Parenteral Services

APS Anesthesia, SPH

Developed By:

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Appendix A

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Pasero Opioid Induced Sedation Scale

Pasero Opioid-Induced Sedation Scale (POSS)				
Score	Meaning of Score			
S**	Sleep, easy to rouse	Acceptable ; no action necessary; may increase opioid dose if needed		
	Do not document 'S' in the first 24 hours	**NOTE: During the first 24 hours after surgery and/or after initiation of an opioid, an opioid increase, a change in opioid, or a change in route the patient must be woken. Documenting 'S' score is not acceptable during this time period		
1	Awake and alert	Acceptable; no action necessary; may increase opioid dose if needed		
2	Slightly drowsy, easily roused	Acceptable; no action necessary; may increase opioid dose if needed		
3	Frequently drowsy, rousable, drifts off to sleep during conversation	 Unacceptable; remove PCA button if in use, hold next oral dose of opioid and NOTIFY prescriber for adjustment of opioid orders monitor respiratory status and sedation level closely until sedation level is 2 or better and respiratory status is satisfactory consider administering a non-sedating, non-opioid analgesic for pain i.e. acetaminophen or NSAID 		
4	Somnolent, minimal or no response to verbal and physical stimulation (use trapezius muscle squeeze for physical stimulation - do not use sternal rub)	 Unacceptable; Call a code blue stop opioid and administer naloxone as per order oxygen by mask 10 L/min and monitor vital signs IMMEDIATELY page APS/ Prescribing Service physician STAT DO NOT restart opioid therapy, patient will require new orders by APS 		

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Appendix B

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Documentation

1. Sedation Assessment:

Location in Cerner	What to Document	Frequency
Interactive View and I&O	Pasero Opioid Sedation Scale	
Pain Management;		
Sedation Scale;		
Sedation Scale Used		
Pasero Opioid Sedation Scale	1 = Awake and Alert	Initiation:
	2 = Slightly drowsy, easily roused	• Q15 min X 30 min,
	3 = Frequently drowsy, rousable,	• Q1h X 4h
	drifts off to sleep during conversation	 Q2H x for total 24 hours,
	4 = Somnolent	then Q4H and PRN
	S = Sleep, easy to rouse	Post-bolus: Q15 min X 30 min then PRN
		Pump Changes: Q1H X 2 hours then PRN

2. Pain Management – Vital Signs:

Location in Cerner	What to Document	Frequency
Interactive View and I&O	Temperature	• Q15 min X 30 min,
Pain Management;	Pulse	• Q1h X 4h,
Vital Signs	SBP/DBP	then Q4h and PRN
	Respiratory Rate	Initiation:
		• Q15 min X 30 min,
		• Q1h X 4h
		Q2H x for total 24 hours, then Q4H and PRN
		Post-bolus: Q15 min X 30 min then PRN
		Pump Changes: Q1H X 2 hours then PRN
	Oxygen Therapy:	Q15 min X 30 min then Q1H
	Oxygen flow rate	X 4H then
	SpO _{2, /} SpO ₂ site	Q4H and PRN

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3. Pain Assessment:

Location in Cerner	What to Document	Frequency
Interactive View and I&O		• Q15 min X 30 min,
Pain Management;		• Q1h X 4h
Pain Assessment		• Q2H x for total 24 hours,
Pain Present	Pain present	then Q4H and PRN
Resp Rate	Same as VS above	Same as VS above
Location	Location of pain	• Q15 min X 30 min,
Pain Tool Used	Numeric Pain Scale	• Q1h X 4h
 Numeric Pain Scale Numeric Pain Score Acceptable Pain Numeric Numeric Pain Score with Activity Numeric Pain Score at Rest 	0 to 10	Q2H x for total 24 hours, then Q4H and PRN

4. Pain Education:

Location in Cerner	What to Document	Frequency
Interactive View and I&O Pain		
Management; Pain Education		
Pain Management	Verbalizes understanding	Initial set up and PRN
	Demonstrates	
	Needs further teaching	
	Needs practice/supervision	
	Other	

5. PCA Documentation in Pain Modalities:

Location in Cerner	What to Document	Frequency
Interactive View and I&O	Create Dynamic Group:	Initial set up
Pain Management;	i. Intravenous	
Pain Modalities	ii. IV Modality Drug Name	
	(fentanyl, HYDROmorphone,	
	morphine)	
	iii. IV Infusion location	
	iv. IV PCA type: Standard,	
	Tolerant, Opioid Extreme	

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to final and Tour	Dationt Controlled	From the second to the second
Infusion Type	Patient Controlled,	Every assessment and /or change
	Continuous Infusion	
Verification Type	Change new syringe	As applicable
	Change in Caregiver	
	Change in concentration or	
	medication	
	Change in pump programming	
	Initial set up	
IDC Completed		When applicable (i.e. any pump
		programming change, bolus dose,
		syringe change)
Pump Related Activity	Pump change	When applicable
	Pump cleared	
	Pump labelled	
	Pump stopped	
	Removal, other	
Verified Pump Settings With		Every assessment and /or change
Orders		
Adverse Effects		
Patient Controlled Dose		
Patient Controlled Dose Unit		
of Measure		
		When applicable
Continuous Rate		When applicable
Continuous Rate Unit of		
Measure		
Clinical Bolus Given		
Pump Cleared Total		At end of each shift (0600 &
Pump Cleared Total Unit of		1800h)
Measure		
Number of Doses Attempted	(Zoom to 24 hours- Record the	Every 4 hours (1000, 1400, 1800,
Number of Doses Delivered	number exactly as displayed-	2200, 0200, 0600h)
- Hamber of Boses Belivered	cumulative)	, , , , , , , , , , , , , , , , , , , ,

6. Potential Complications:

Location in Cerner	What to Document	Frequency
Interactive View and I&O	Flatus	On assessment and /or change
Gastrointestinal	Bowel sounds	
	Bowel movements	

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Interactive View and I&O Genitourinary	•	Urinary retention	Q6h and PRN
Pain Management; Pain	•	Pruritus	On assessment and /or change
modalities; IV or Subcutaneous	•	Urinary retention	
Infusions; Adverse Effects	•	Nausea and vomiting	

7. Once PCA discontinued, click on PCA dynamic group, right click and inactivate.

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