

Survey of CAPHC Centres Continuous Infusion Pump

2008

	Children's Hospital of Winnipeg	Janeway Children's Health and Rehabilitation Center	Children's Hospital of Eastern Ontario	Stollery Children's Hospital	CHU Sainte Justine
Do you run continuous infusions via syringe pumps or volumetric pumps?	Yes, syringe pump. PICU uses both. In PICU vasoactive/inotropes are run only via the syringe pump.	Both: Ward - Volumetric only PICU - Both NICU - Syringe only	Both	Both types of pumps.	Yes
Are continuous narcotic infusions run on the ward or in a critical care area, ie: PICU, NICU?	Wards and critical care	Both	Continuous narcotics are run in the critical care area and inpatient wards.	Continuous narcotic infusions are run in ICU settings and on the patient care units.	Yes, on regular wards it is on PCA pumps only, on PICU and NICU it is on PCA pumps or syringe pumps.
Do your infusion pumps have safety software?	Yes	Yes	Yes, guardrails for volumetric pumps. Nothing for syringe pumps.	No, but we will be getting new pumps in the Fall (SmartPumps).	Yes, PCA pumps have safety software.
When running a continuous narcotic infusion, do you administer boluses off the pump? And if yes, what is the rationale?	Yes, convenience (PICU and NICU only). Wards administer narcotic boluses separately as they do not regularly use the safety software on the syringe pumps. If the infusion is running on a volumetric pump, we will bolus separately. The Baxter pump does not have a bolus feature on it when in Guardian software.	Wards - No PICU - Yes, it is easier, but is also volume dependent. NICU - Yes, but again may also be given separately.	Only on a very limited number of syringe pumps in one inpatient care area. Not done in critical care. Rationale: convenience.	Yes. We have pre-print patient care orders that provide instructions for a bolus.	No. The PCA pumps are programmed to allow the patient to administer bolus doses if in pain, this is through the pump.

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When running continuous narcotic infusions, do you bolus narcotics separately from the infusion?	Yes, if there are other infusions running in the same port as the morphine. I.e. inotrope. We would bolus separately to avoid giving an inadvertent bolus of the inotrope.	Wards - if bolus required must be given by physician, and would be given separately from infusion. PICU - Yes - See #4 NICU - Yes, see #4	Yes	No.	No
If narcotics are bolused separately, in critical care areas do you have an extra nurse who draws up drugs/narcotics? If not, how do the nurses manage this?	PICU, we will bolus narcotics separately if it is an adjunct to what is ordered or the bolus is a large volume. Inotropes will run in a dedicated lumen. Nothing requiring bolusing will be infused in the same line as an inotrope.	Our policy requires that 2 nurses independently double check all IV medications: one nurse would draw up the medication and another nurse will independently check the medication. NICU - if given separately, is always given in a medline, not the narcotic infusion line.	We do not have an extra nurse for this. It is the responsibility of the nurse caring for the patient to complete this task or delegate it accordingly.	N/A	When administering narcotics, there is always a double check by 2 different nurses and at each shift change, a double check of the narcotics on the ward by 2 different nurses. Policy provided (in French)
Do you have a policy and procedure for bolusing narcotics off a pump? If yes, could you share the policy and procedure with us?	No, it is drawn up by the bedside nurse. Occasionally the Pharmacist will help out if very busy.	No, we do not have such a policy.	No policy exists.	We don't have any P&P's specifically for bolusing. We do have P&P's for monitoring pts and one that provides direction on the responsibilities of an RN in relation to narcotic infusions.	We have a new policy for the surveillance of the administration of narcotic.
What brand of syringe/volumetric pump do you use for continuous infusions?	Alaris Asena. Volumetric pump is the Baxter Colleague	Syringe - Baxter AS50 with BD syringe and Microbore Tubing. Volumetric - Colleague CXE	Our syringe pumps are Asena and our volumetric pumps are Alaris.	Syringe pumps: ASENSA Volumetric pumps: IVAC (model 7100)	IVAC PCAM in the hospital. Pharmacia pump at home (homecare). Syringe pumps: Alaris, Medfusion

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	Hospital for Sick Children	Shriner's Hospital Montreal	Grey Bruce Health Services	McMaster Children's Hospital NICU, PCCU, Pediatrics	Grand River Hospital
Do you run continuous infusions via syringe pumps or volumetric pumps?	We are in the process of converting from traditional IV pumps to SMART pumps (June 2008). Currently, we use both volumetric and syringe pumps to deliver continuous infusions. When the SMART pumps are implemented, we will use only syringe pumps.	Yes	We have 1 syringe pump for titrating certain meds in ICN (Intensive Care Nursery). Volumetric pumps are used throughout the centre.	NICU - Volumetric pumps and syringe pumps PCCU - Volumetric pumps and syringe pumps Peds - Volumetric pumps	We do use syringe pumps in our Level II NICU for such things as morphine, heparin and dopamine.
Are continuous narcotic infusions run on the ward or in a critical care area, ie: PICU, NICU?	All wards are permitted to run continuous narcotic infusions.	Continuous infusions of narcotics are only given through PCA pumps or syringe pumps for epidurals. They are run on the ward.	On open ward and also in ICN.	Yes	We do continuous narcotic infusions (mainly morphine) on our general pediatric unit as well as in NICU.
Do your infusion pumps have safety software?	As above, we will be implementing in June 2008.	Our infusion pumps have an anti-free flow safety (we need to close the clamp before opening the lever of the pump.)	With add-on component coming in a year . . . not currently.	Yes	Yes they do.
When running a continuous narcotic infusion, do you administer boluses off the pump? And if yes, what is the rationale?	Boluses are administered whether from the pump or as a separate injection - depending on the required dose and area preference.	No	No bolus's run off pump . . .	NICU/Pediatrics - no PCCU - yes bolus off the pump if require an immediate response or are implementing rapid sequence sedation for intubation or if there is no line yet. The rationale to move towards administering bolus off the pump is to utilize the guardrails which is a built in software of our pumps. This standardizes the procedure and enhances patient safety.	No we do not.

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	Hospital for Sick Children	Shriner's Hospital Montreal	Grey Bruce Health Services	McMaster Children's Hospital NICU, PCCU, Pediatrics	Grand River Hospital
When running continuous narcotic infusions, do you bolus narcotics separately from the infusion?	As above, at times we do.	No	Yes, it is separate from infusion . . . in 20mL over 20 minutes.	Yes	Yes
If narcotics are bolused separately, in critical care areas do you have an extra nurse who draws up drugs/narcotics? If not, how do the nurses manage this?	The patient's nurse gets the narcotic from the Narcotic Cupboard, signs for it on the Narcotic Record, checks the dose with another nurse, and administers to the patient.	The nurses do not give boluses of narcotics.	We mix the morphine concentration on the units to provide a per kg dose of actual child weight. Nurses double check the preparation and will be signing as checked/hung.	No extra nurse to draw up drugs. There is a double check by a second nurse/pharmacist or pharmacy assistant. The patient's primary nurse would draw up the narcotic and have a second RN co-sign any wastage.	In both our pediatric unit and our NICU another nurse will draw up the bolus and will then check in with another nurse prior to administration.
Do you have a policy and procedure for bolusing narcotics off a pump? If yes, could you share the policy and procedure with us?	We do not have a policy at this time.	No	None off pump.	No we do not have a policy for bolusing off a pump.	We do not, but are looking into this.
What brand of syringe/volumetric pump do you use for continuous infusions?	We have currently identified Cardinal Health (Alaris pumps) as our preferred vendor and are in contract negotiations at this time.	Volumetric pumps: Sigma 8000+ Syringe pump: Graseby	Volumetric pump = Plum A+ Alaris = syringe pump	Volumetric Pump - Alaris Syringe pump - Alaris	Our syringe pump in NICU is the Aitecs 2015 from Baxter.

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	CHEO	BCCH
Do you run continuous infusions via syringe pumps or volumetric pumps?	Yes	Both
Are continuous narcotic infusions run on the ward or in a critical care area, ie: PICU, NICU?	Yes to PICU	Both
Do your infusion pumps have safety software?	Volumetric pumps do, syringe pumps do not.	Yes
When running a continuous narcotic infusion, do you administer boluses off the pump? And if yes, what is the rationale?	No	Not currently, but we'd like to consider doing so in the future.

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	CHEO	BCCH
When running continuous narcotic infusions, do you bolus narcotics separately from the infusion?	Yes	Yes, in critical care only.
If narcotics are bolused separately, in critical care areas do you have an extra nurse who draws up drugs/narcotics? If not, how do the nurses manage this?	Narcotis is drawn up by the patient's nurse . . . if a fractional dose/wastage is involved, second nurse verifies calculation, dose, drug, patient and signs narcotic record for that wastage.	A separate bolus dose is kept at bedside that is why we want to begin bolusing from the infusion.
Do you have a policy and procedure for bolusing narcotics off a pump? If yes, could you share the policy and procedure with us?	No policy	Not yet
What brand of syringe/volumetric pump do you use for continuous infusions?	Alaris volumetric Asena syringe	Alaris