

MEMO

DATE: 10/12/2021

TO: All Managers and Leaders that have Pediatric or Neonatal Patients in their Departments
All clinical educators and all clinical resource staff

FROM: SK SMART Pump Program

RE: **Small Volume Infusion Pumps and Parenteral Manual Updates**

The SK SMART Pump Program is pleased to announce that we will be integrating a small volume syringe infusion pump into all areas that care for pediatric or neonatal patients, within the province.

The pump is called a Medfusion 4000 – it has the capacity to safely infuse smaller volumes as with greater accuracy for the child. The Medfusion 4000 include Drug Error Reduction Software (DERS) and will provide a drug library, similar to the large volume PLUM 360 pumps, to help support safer infusion practices in our pediatric population. When the Medfusion 4000 is used properly, medication errors and risk of harm to our patients will be reduced.

Education

Education on the standards and how to operate the Medfusion 4000 SMART Pump is in progress at the Jim Patterson Children's Hospital. Expected roll out date for JPCH is the first week of November, 2021.

Education for Regina departments will occur in October with roll out anticipated mid-November, 2021.

Prince Albert departments will start education in late October or early November, with anticipated roll out of the pumps at the end of November, 2021.

The remainder of the province will have education provided with anticipated roll out dates in early 2022.

Once your department has received the Medfusion 4000 pumps, use of any other small volume syringe pump will not be supported. Departments will be expected to utilize the safety systems embedded in the new pumps to provide safer patient care.

Parenteral Manual Changes

The SK SMART Pump Program is in the process of updating the provincial Parenteral Manual. This manual provides practitioner guidance on safe administration of medications. With the implementation of the Medfusion 4000, the monographs have been updated to reflect pediatric and neonatal information.

Once the new pump is rolled out in your department, the Sask. Kids Pediatric Parenteral Drug Manual will no longer be appropriate. Staff will be required to access and utilize the SK SMART Pump Parenteral Manual for all medication administration. Once the entire province has rolled the new Medfusion 4000 pumps out, the Sask. Kids Pediatric

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Parenteral Drug Manual will be removed from service and there will no longer be separate Adult and Pediatric drug monographs.

The Parenteral Manual updates will not affect adult content. What will be different for non-pediatric departments is the monographs may have additional appendices specific to pediatric and neonatal infusions. These dosing tables are intended to help the bedside practitioner determine appropriate drug concentration based on volume to be infused for each individual patient. The volumes presented on the charts are for guidance ONLY. Once the MedFusion 4000 SMART pump is programmed appropriately, the pump will provide the rate of infusion. The rate of infusion on the pump is the accurate rate to be utilized.

Any requests for updates or changes should continue to come through the [SMART Pump Change Request Form](#) that can be completed by any clinical staff member identifying a need.

Please share this information with all appropriate clinical staff at huddles, meetings, etc.

Updates will be provided and available on the SK SMART Pump home page -

<https://collaboration.web.ehealthsask.ca/sites/smартpump/Pages/Homepage.aspx>

If you have any questions, please do not hesitate to reach out to the SK SMART Pump Program –
SaskSmartPumpRegina@saskhealthauthority.ca



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