

Hemodialysis: Administration of IV Medications via the Venous Port During Hemodialysis

Site Applicability

PHC Hemodialysis Units

Practice Level

Registered Nurses (RN) and Licensed Practical Nurses (LPN) who have completed the required education and who provide nursing care in a PHC Renal Program Hemodialysis specialty unit.

LPNs working in hemodialysis settings administer solutions, substances and Schedule I, II and III drugs by any route, including intravenous and IV push, as part of routine hemodialysis procedures. BCCNM Scope of Practice, Standards Limits and Conditions, February 2023

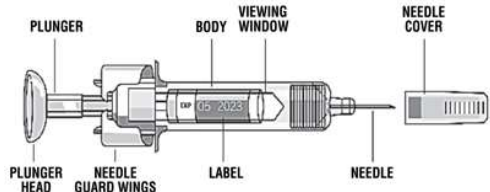
Need to Know

- Body Substance Precautions – [routine practices- infection control](#)
- Occupational Health and Safety – [Blood and Body Fluid Exposures](#) (Sharps and Splash)
- Do not use needles with a diameter greater than 21 gauge (Hospals Hemoline Instruction. See information pamphlet under Specifications)
- Dialyzability of IV medications should always be checked prior to administration
- For preparation and administration of IV medication that are prepared by pharmacy, or prepared on the unit, refer to [B-00-12-10031](#) and the [Parenteral Drug Therapy Manual](#)

Equipment and Supplies

2 x alcohol swabs	Non sterile gloves
1x 3 mL syringe	Sharps bucket
1 x 22 gauge sharp needle, 1 inch length, with safety device	Prepared IV medication
Pre-filled medication syringe with needle guard (manufacturer prepared)	Alaris pump and infusion set
1 x 50 mL Normal Saline bag (for flush)	

Procedure

Steps	Rationale
<p>1. Preparation</p> <p>For either pre-filled or non prefilled syringe, and IV Antibiotics:</p> <ol style="list-style-type: none"> Check Provider order for medication name, dose, time and route Perform hand hygiene Put on non-sterile gloves Prepare medication as directed by PDTM (if not prepared by pharmacy or manufacturer) For single use pre-filled syringe with needle guard: <ol style="list-style-type: none"> Take syringe from refrigerator Check expiry date on syringe, ensure it is not damaged and liquid is clear and not frozen For IV antibiotics: <ol style="list-style-type: none"> Determine drug dialyzability Consider the recommended time frame to infuse the medication completely 	<p>Do not use needles with a diameter greater than 21 gauge (Hospals Hemoline Instruction. See information pamphlet under Specifications)</p>
<p>2. Administration</p> <p>For either prefilled syringe or non prefilled syringe, and IV antibiotics:</p> <ol style="list-style-type: none"> Perform Closed Loop Medication Administration in Cerner by scanning <ol style="list-style-type: none"> Patient's arm band bar code or bar code on photo identification record Medication bar code Address any alerts Clean the venous medication port on the hemodialysis bloodline with an alcohol swab and let it dry 	<p>Identifies correct medication and correct patient following organizational policies and guidelines</p> <p>Prevent transmission of organisms</p>

Page 3 of 5

Patient and Family Education

1. Provide patient with information about each medication and what it is indicated for
2. Instruct patient to report any side effects or adverse reaction to IV medication especially when it is the first dose they have received

Related Documents

1. [B-00-12-10031](#) - Hemodialysis: Administration of IV Iron Preparations during hemodialysis
2. [Parenteral Drug Therapy Manual](#)
3. Occupational Health and Safety – [Blood and Body Fluid Exposures \(Sharps and Splash\)](#)

References

Adult Parenteral Drug Therapy Manual (2023). Accessed at <http://pdtm.vch.ca/>

British Columbia College of Nurses and Midwives. (2023). Scope of practice, standards, limits and conditions. Retrieved March 27, 2023 from <https://www.bccnm.ca>

Intravenous Therapy: Priming and changing a solution. Elsevier Clinical Skills (2022). St. Louis, MO. Elsevier. Retrieved Month Day Year from www.elsevierskills.com

Janssen Canada. (2023). EPREX product monograph. Retrieved April 20, 2023 from [eprex_cpm.pdf \(janssen.com\)](http://eprex_cpm.pdf(janssen.com))

Provincial Health Services Authority: British Columbia Renal. Dialyze IHD: Dialyzability of medications during intermittent hemodialysis. Nursing Poster Presentation and Chart. Retrieved April 20, 2023 from <http://www.bcrenal.ca/resource-gallery/layouts/15/DocIdRedir.aspx?ID=BCPRA-31-462>.

Groups/Persons Consulted:

Renal Clinical Practice Group

Developed/Revised By:

Nurse Educator, Hemodialysis

First Released Date:	04-JUN-2003
Posted Date:	18-MAY-2023
Last Revised:	18-MAY-2023
Last Reviewed:	18-MAY-2023
Approved By: <i>(committee or position)</i>	PHC
	Professional Practice Standards PHC Renal Clinical Practice Group
Owners: <i>(optional)</i>	PHC
	Renal Program