



DukeMedicine

Division of Cellular Therapy

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Intravesicular Cidofovir Administration

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ABMT-GEN-026 INTRAVESICULAR CIDOFOVIR ADMINISTRATION

1 PURPOSE

- 1.1 To outline the nursing responsibilities of intravesicular Cidofovir administration.

2 INTRODUCTION

- 2.1 Cidofovir is an acyclic phosphate nucleotide analog antiviral agent that has shown effectiveness when used locally for the treatment of polyoma cystitis in the adult blood and marrow transplant patient.

3 SCOPE AND RESPONSIBILITIES

- 3.1 Interdependent (asterisked items* require an order from a licensed physician or advanced practice provider). RN's who have demonstrated competency in the procedure of catheter insertion and medication administration.

4 DEFINITIONS/ACRONYMS

- 4.1 N/A

5 MATERIALS

- 5.1 Cidofovir in a catheter tipped syringe prepared by the pharmacy.

6 EQUIPMENT

- 6.1 Foley catheter insertion kit
- 6.2 Indwelling urinary drainage catheter and bag
- 6.3 Plastic backed disposable blue pads
- 6.4 Catheter plug
- 6.5 Catheter clamp
- 6.6 Nitrile gloves
- 6.7 Chemotherapy gown
- 6.8 4 x 4 gauze
- 6.9 Mask with face shield

7 SAFETY

- 7.1 Review and verify medication order
- 7.2 Assess medical history for allergies
- 7.3 Assess patient q 15 minutes during Cidofovir instillation

8 PROCEDURE

- 8.1 *Administer pre-medications as ordered.
- 8.2 *Insert specified urinary catheter if one is not already in place and drain urine from bladder.
- 8.3 Place patient in supine position and place plastic backed pads under the pelvis and the connection between the catheter and the drainage bag. Medication may be instilled via the infusion port of a 3 way urinary catheter or the drainage port of a urinary catheter.
- 8.4 **3-way urinary catheter:** clamp the catheter and disconnect the irrigation tubing and plug the irrigation port with a cap maintaining sterility. Clamp the catheter drainage bag. Manually instill the Cidofovir into the irrigation port over 15 minutes monitoring patient for pain, leakage, spasm. If leakage occurs, stop the infusion, reposition the patient and attempt to resume instillation. **One-way urinary catheter:** Clamp the catheter and disconnect the drainage bag maintaining sterility and insert a cap into the drainage bag. Manually instill the Cidofovir into the irrigation port over 15 minutes monitoring patient for pain, leakage, spasm. If leakage occurs, stop the infusion, reposition the patient and attempt to resume instillation.
- 8.5 Clamp the urinary drainage catheter for one hour following instillation of Cidofovir.
- 8.6 After one hour, remove the syringe and reconnect the drainage bag and irrigation tubing appropriately.
- 8.7 Drain the urine into drainage bag.

9 RELATED DOCUMENTS/FORMS

- 9.1 Document procedure in EMR

10 REFERENCES

- 10.1 Bridges B, Donegan S, Badros A. Cidofovir bladder instillation for the treatment of BK hemorrhagic cystitis after allogeneic stem cell transplantation. *American Journal of Hematology* 2006; 81:535-537.
- 10.2 Clinical Pharmacology. Available via Clinical and Medical Reference Program

REVISION HISTORY

Revision No.	Author	Description of Change(s)
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ABMT-GEN-026 Intravesicular Cidofovir Administration

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