

## Ethacrynic Acid Administration Intravenous Route: Competency Assessment Tool

### Purpose:

To ensure Nuclear Medicine technologists (NMT) can demonstrate competency in the required skills for the safe preparation and administration of the medication Ethacrynic Acid (Intravenous) in the clinical setting.

### Instructions:

1. Clinical competency must be validated by a physician (i.e. NM physician, Radiologist) or an approved technologist designate (MRT) to be certified.
2. A physician delegate or approved technologist designate must complete the Competency Assessment Tool.
3. This tool may be used during initial skill development, however, final competency must only be signed off after all skills are met with satisfaction by the assessor.
4. To maintain competency requirements, validation must be completed annually and/or after returning from a period of extended absence.
5. If competency requirements are not met after the first attempt, additional education under the guidance of a mentor should occur prior to re-assessment.
6. If a criteria is not met, please provide feedback in the comments section at the bottom of this document.
7. MRT's should be provided on-going support by way of mentorship, guidance and additional practice opportunities regardless of competency achievement.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Site: \_\_\_\_\_

The MRT (NMT) did:	Yes	No
<b>Prerequisites</b>		
1. Read: <a href="#">Ethacrynic Acid Administration: Intravenous Route</a> and Required Readings		
2. Read: <i>Nuclear Medicine Protocol: Diuretic Renal Scan Ethacrynic Acid</i>		
3. Valid Completion of <a href="#">LHUB Course: LMMI - Nuclear Medicine Technologist Competency for Administration of Medications</a>		
4. Valid <a href="#">DMA Competency Certificate</a>		
<b>Preparation and Administration</b>		
5. Reconstitute 50 mg vial of ethacrynic acid with 50 mL D5W (1 mg/mL)		

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6. Describe procedure, indications, contraindications, potential adverse effects.		
7. Gather correct equipment and supplies: gloves, sterile syringes, needles, D5W, alcohol swabs and syringe pump		
8. Perform hand hygiene		
9. Draw Dosage: <ul style="list-style-type: none"> <li>• 25 mL D5W into 60 mL syringe</li> <li>• 25 mg (25 mL) ethacrynic acid           <ul style="list-style-type: none"> <li>○ Add ethacrynic acid to 60 mL syringe (0.5 mg/mL)</li> </ul> </li> </ul>		
10. Set up Medfusion syringe infusion pump: Infusion Rate option 3) VOLUME/TIME: <ul style="list-style-type: none"> <li>• Enter VOLUME = 50 mL</li> <li>• Enter TIME = 15 Minutes</li> <li>• Infusion Rate 3.33 mL/min</li> </ul>		
11. Document medication administration: <ul style="list-style-type: none"> <li>• Technologist worksheet</li> <li>• EHR</li> </ul>		
<b>Assessor Comments:</b>		
<div> <div> <b>Assessor</b> (Check one): <input type="checkbox"/> MD <input type="checkbox"/> MRT (NMT)   <b>Assessor Name:</b> _____   <b>Assessor Signature:</b> _____   <b>Date:</b> _____            YYYY/MM/DD         </div> <div> <b>Physician to complete this section only</b> if the MRT (NMT) has been deemed competent by the physician and is an approved technical designate to provide training and perform competency assessments on other MRT's (NMT's).   <b>Yes</b> <input type="checkbox"/>   <b>Physician Name:</b> _____   <b>Physicians Signature:</b> _____   <b>Date:</b> _____            YYYY/MM/DD         </div> </div>		

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<b>Approved By:</b>	NM Site Supervisor, RCH	NM Medical Practice Lead, LMMI	Regional Director, Quality & Informatics, LMMI
	21-May-2022	20-Jun-2022	20-Jun-2022
<b>Reviewed By:</b>	Regional Quality Assurance Coordinator, LMMI	NM Physicians, RCH	NM Site Supervisor, BUH
	25-Jul-2022	7-Apr-2023	11-Apr-2023
<b>Owners:</b>	NM Regional Professional Practice Lead		
<b>Revision History:</b>	<b>Version</b>	<b>Date</b>	<b>Description/Key Changes</b>
	1.0	19-May-2023	Initial Release
			Rhonda Hollerbaum, NM RPL

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