

# Aspirus Langlade Hospital

## RN - Competency Assessment (Alteplase) Administration Guideline

Name: \_\_\_\_\_ Employee Number: \_\_\_\_\_ Job Class: \_\_\_\_\_

Competency:	Steps of Process:	Completed	Validators Signature & Date
<b>Technical Domain:</b>			
<p>Demonstrates the ability to correctly mix and infuse <b>Alteplase for Code Stroke</b> patients who meet criteria. (Includes return demonstration)</p> <p><b>Reason for Evaluation</b>  <input type="checkbox"/> N = New Procedure/Equipment   X H = High Risk  <input checked="" type="checkbox"/> L = Low Volume   X P = Problem Prone  <input type="checkbox"/> M = Mandatory   <input type="checkbox"/> O = Other</p> <p><b>Age Group</b>  <input type="checkbox"/> N = Neonate   <input type="checkbox"/> C = Child  <input type="checkbox"/> A = Adolescent  <input checked="" type="checkbox"/> AD = Adult  <input checked="" type="checkbox"/> G = Geriatric   <input type="checkbox"/> L = All</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Get Alteplase kit from medication room. Contents include everything required for Alteplase infusion for Code Stroke patient.</li> <li><input type="checkbox"/> Remove cap from water vial</li> <li><input type="checkbox"/> Unwrap spike and maintain sterile condition</li> <li><input type="checkbox"/> Holding the vial of water vial in the upright position, spike the vial</li> <li><input type="checkbox"/> Remove the cap from the powdered Alteplase vial</li> <li><input type="checkbox"/> Hold the water vial firmly in the upright position</li> <li><input type="checkbox"/> With the other hand, hold the Alteplase vial upside down and lower Alteplase vial spike onto the water vial port</li> <li><input type="checkbox"/> With both hands, invert both vials together so the water will be on top and flow into the Alteplase vial</li> <li><input type="checkbox"/> Once all the water is in the Alteplase vial, grasp flanges of spike and decannulate the Alteplase vial</li> <li><input type="checkbox"/> Mix solution gently by rolling the Alteplase between your hands. <b>DO NOT SHAKE. If there are bubbles in the vial, you will need to discard as it takes a long time for the bubbles to dissipate.</b></li> <li><input type="checkbox"/> Puncture Alteplase vial with IV tubing spike and open the vent on the side. Prime tubing with Alteplase.</li> <li><input type="checkbox"/> Utilizing the Alteplase dosing card, and after calculating the patient's weight in kilograms: locate the total Alteplase dose, Discard quantity, bolus dose and infusion dose.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> pass</li> <li><input type="checkbox"/> fail</li> </ul>	

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	<p><b>Example</b></p> <ul style="list-style-type: none"> <li>• Patient weight – 160 lbs (72.7 kg)</li> <li>• Total Dose – 65.4 mg = ml</li> <li>• <b>Discard Quantity – 34.6 ml (includes the 10 ml that will ALWAYS be discarded as the maximum dose is 90 mg)</b></li> <li>• Bolus dose – over 1 minute = 6.5 ml</li> <li>• Infusion Dose = 58.9 kg</li> </ul> <p><input type="checkbox"/> Using a large syringe, access a port in the tubing and remove the discard quantity (in this case = 34.6 ml)</p> <p><input type="checkbox"/> Connect IV tubing to patient’s extension tubing and program pump with above information. <b>When you access Alteplase on the pump, you will need to page down for the stroke dosing and bolus.</b></p> <p><input type="checkbox"/> Once the infusion is complete, discard the Alteplase vial and exchange it for a 0.9 Normal Saline, 50 ml bag (in the Alteplase kit in the medication room) and infuse <b>AT THE SAME RATE AS THE ALTEPLASE</b> for one (1) hour</p> <p><input type="checkbox"/> Vital signs including neuro checks must be completed every 15 minutes during the infusion.</p> <p><b><u>NOTE – If you do not infuse the Alteplase for some reason, please save the drug as the facility is provided a new Alteplase kit at no charge.</u></b></p>		
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Action Plan with Remediation Date and Level of Performance: \_\_\_\_\_

Job Class	Work Area	<input type="checkbox"/> deemed competent	<input type="checkbox"/> not yet deemed competent
Employee Signature	Date	Director, Coordinator or Validator Signature	Date