

UNIVERISTY HOSPITALS OF DERBY & BURTON NHS FOUNDATION  
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 DRUG MONOGRAPH FOR USE IN RADIOLOGY, RDH

**Alteplase (rt-PA) – For pulse spray thrombolysis  
(Angiojet technique)**

<b>Indications</b>	Pulse spray thrombolysis using the Angiojet
<b>Dose</b>	<p>Bolus dose (Radiologist): Up to 5mg (may be administered after the procedure)</p> <p>Pulsed infusion via Angiojet: As per Angiojet regimen</p>
<b>Preparation</b>	<ol style="list-style-type: none"> <li>1. Dissolve 20mg alteplase in the 20ml diluent (water for injection) provided to give a 1mg/ml solution</li> <li>2. <b>BOLUS:</b> Draw up 5mg in 5ml into a 10ml syringe and label this ready for the bolus.</li> <li>3. <b>INFUSION FOR ANGIOJET</b> Remove 15ml from a 100ml bag of sodium chloride 0.9%. Draw up the remaining 15mg in 15ml alteplase. and add this to the sodium chloride 0.9% bag to give 15mg in 100ml infusion.</li> </ol>
<b>Administration</b>	<p><b>BOLUS:</b> The bolus dose should be administered by the radiologist.</p> <p><b>INFUSION FOR ANGIOJET:</b> Follow Angiojet regimen.</p>
<b>Shelf-life</b>	8 Hours
<b>Additional information</b>	This infusion is for use in X-Ray in accordance with the Angiojet regimen only (alternative dosing and administration applies to other indications e.g. continuous arterial infusion, massive PE, MI and cardiac arrest – See clinical guidelines on intranet or discuss with pharmacy).

<b>Sample Label</b>	<b>DRUGS ADDED TO THIS INFUSION</b>			
	<b>PATIENT</b> <i>A. Patient (A. Number)</i>			<b>WARD</b> <i>x-ray</i>
	<b>DRUG</b> <i>Alteplase in 100ml Sodium Chloride 0.9%</i>	<b>AMOUNT</b> <i>15mg</i>	<b>ADDED BY</b>	<b>CHECKED BY</b>
	<b>DATE ADDED</b> <b>TIME ADDED</b>	<b>EXP.DATE</b> <b>EXP.TIME</b>	<b>BATCH NUMBER</b>	
	<b>DISCONTINUE IF CLOUDINESS OR PRECIPITATE DEVELOPS</b>			

**Documentation Controls**

Development of Guideline:	Pharmacist – Medicines Safety & Clinical Governance
Consultation with:	Consultant Radiologist Critical Care Pharmacist
Approved By:	Interventional Radiology - September 2018  C, D & CS Division - 15/11/2018 Reviewed with no changes - Radiology - Jan 2024
Review Date:	January 2027
Key contact:	Medicines Safety Officer

**\*\*\* End of Monograph \*\*\***