Date of birth:Hospital No:	
1. (C'	
(affix hospital label here)	



GLYCERYL TRINITRATE INTRAVENOUS INFUSION PRESCRIPTION CHART- Derby Site Only Allergies: **PRESCRIPTION** Glyceryl Trinitrate: 1mg/1mL Print name: Prescriber's Signature: Rate (0.5 to 10 mL/hour-recommended 1ml/hour starting dose) Date/time: Please use non-PVC giving set Date Time GTN Batch No. Prepared by Checked by

(By symptoms this chart refers to chest pain or symptoms of acute heart failure)

OBSERVATIONS

MONITORING					ADMINISTRATION RECORD			
Time	ВР	HR	SatO2	Symptoms Y/N	GTN infusion rate	Residual volume	Nurse/checked signature	

Ref No: CG-EMD/2023/007 Review due:Oct 2026

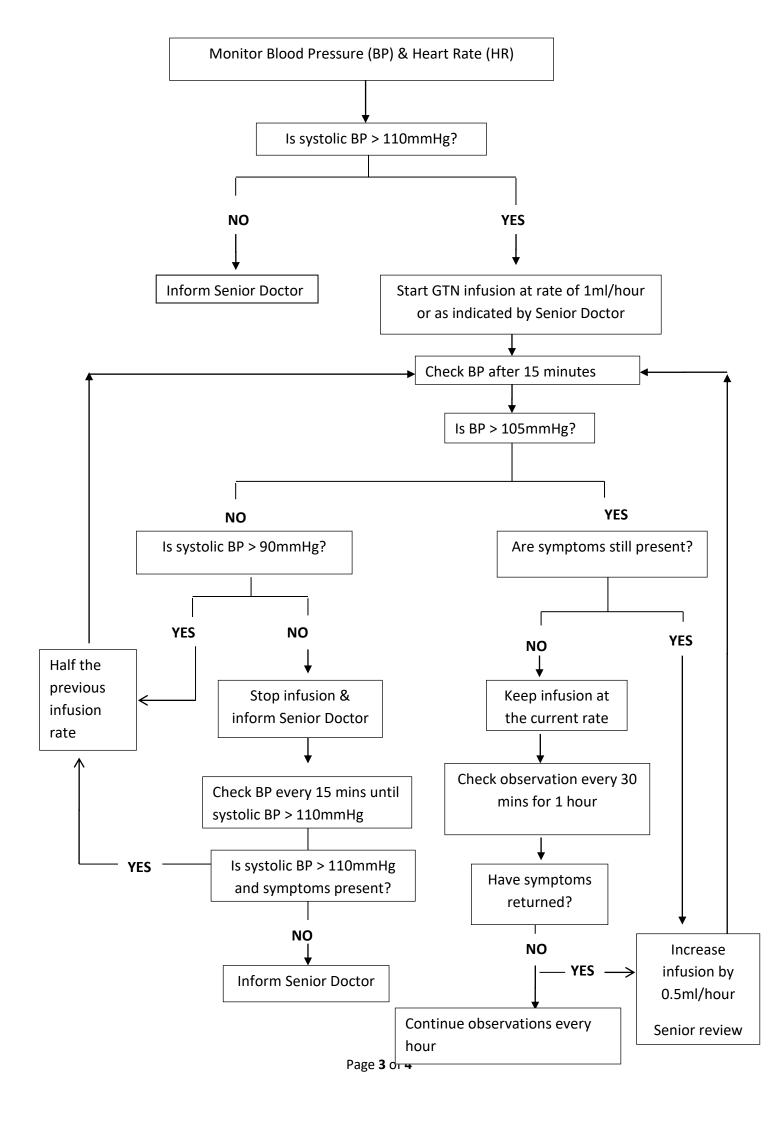
- 1. GTN solution must be administered from a 30 ml syringe using an infusion pump.
- 2. Record baseline observations of blood pressure (BP) and heart rate (HR).
- 3. The initial infusion rate should be set at 1 mL/hour unless otherwise instructed by medical staff.
- **4.** Adjust the infusion rate according to the guidance in the flowchart below to a maximum of 10ml/hour
- **5.** Re-check observations and symptoms 15 minutes after starting the infusion and after each infusion rate change.
- **6.** If infusion rate is not changed, re-check observation and symptoms every 30minutes for the first hour and then every hour.
- 7. If the infusion is reduced or stopped due to a low BP inform medical staff (senior doctor).
- 8. Check the residual (volume remaining in the syringe) at least every hour.
- 9. Inform medical staff if systolic BP falls below 90mmHg.
- **10.** When the infusion is to be discontinued, reduce the rate by 1mL/hour every hour until stopped.

CONTRAINDICATIONS:

- Cardiogenic shock
- Aortic or mitral valve stenosis,
- Hypertrophic obstructive cardiomyopathy
- Severe anemia,
- Severe cerebral haemorrhage
- Head trauma
- Uncorrected hypovolaemia and hypotensive shock
- Constrictive pericarditis
- Pericardial tamponade
- Toxic pulmonary oedema.
- Conditions associated with an increased intracranial pressure
- Hypersensitivity to the active substance, other nitrates or any of the excipients
- Cautious administration in patients using phosphodiesterase inhibitors type 5 (PDE5) (e. g. Sildenafil, Vardenafil, Tadalafil) may amplify the vasodilator effects of Glyceryl Trinitrate resulting in severe hypotension

SIGNS OF SENSISTIVITY TO INFUSION

- Fall in systolic blood pressure ≤ 90 mmHg
- Pallor
- Sweating
- Weak pulse•
- Collapse
- Dizziness
- Nausea



Documentation Control

Development of Guideline:	Alina Paunescu, Emergency Medicine Consultant
Consultation with:	Cardiology (Dr Baron) Pharmacy (Esther Kirk, James Kerr)
Approved By:	ED - August 2023 Pharmacy - August 2023 Medical Division - Oct 2023
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