

# NHS Lothian

## Adult Heparin Infusion Chart

(for standard bleeding risk)

Consultant		Name of Patient	
Hospital / Ward		CHI Number	
Weight (kg)		DOB	

Medicine (Approved Name)	Final Concentration	Total Dose	Volume	Route	Prescribed / Transcribed By Sign & print name
Heparin	1000 units/ml	40,000 units	40 mls	IV	

\*Please note that in NHS Lothian heparin sodium solution for infusion is available in a ready concentration of 1000units/ml so further dilution is not required. If in doubt, contact pharmacy for advice.

### Initiation of therapy

- Check baseline FBC, INR, APTT, urea, creatinine
- Prescribe loading dose and infusion on the patient Main Prescription Chart.
- Loading dose: 5000 units iv bolus. For patients with a high risk of bleeding eg. elderly >70yrs, creatinine clearance <30ml/min or low body mass index, a loading dose may not be required.
- Immediately start continuous infusion of heparin (1000 units/ml) set at initial rate of 1,200 units (1.2 ml)/hr. If actual body weight over 120kg seek advice from haematologist.
- For patients with a high risk of bleeding, a lower starting rate may be required, such as 1,000 units (1.0ml)/hr.

### Infusion Rate Instructions

	Date	Time	Rate ml/hr	Prescribed/ Adjusted by	Comment / Reason for Change
Initial Rate					
Change 1					
Change 2					
Change 3					
Change 4					
Change 5					
Change 6					

### Dose Adjustment Instructions

#### TARGET APTT RATIO: 2.0 - 3.0

(if there is a high bleeding risk, a revised target ratio may be required: seek advice from Haematology)

APTT ratio	INFUSION ADJUSTMENT:	REPEAT APTT:
>5.0	Stop for 1 hour and decrease rate by 500 units (0.5ml)/hr	2 hours
4.1-5.0	Decrease infusion rate by 300 units (0.3ml)/hr	6 hours
3.1-4.0	Decrease infusion rate by 200 units (0.2ml)/hr	6 hours
2.0-3.0	No change in infusion rate	within 24 hours
1.5-1.9	Increase infusion rate by 100 units (0.1ml)/hr	6 hours
1.2—1.4	Increase infusion rate by 200 units (0.2ml)/hr	6 hours
<1.2	Increase infusion rate by 400 units (0.4ml)/hr	6 hours

### Other Instructions

- Check APTT at 6 hours after the heparin bolus, then adjust rate to achieve therapeutic range of **2.0-3.0** using the **dose adjustment table** above.
- Monitor FBC on alternate days.
- No IM injections, no non-steroidal anti-inflammatory drugs and no arterial punctures while on anticoagulants.
- If platelet count is less than  $100 \times 10^9/L$  or if bleeding is noticed, stop heparin infusion and notify duty doctor immediately.
- If therapeutic range for APTT is not reached within 24 hours, notify duty doctor.
- Do not stop the heparin infusion to check the APTT
- Do not take the APTT sample from the limb with the infusion (or the same line in the case of central lines)
- If the APTT is over 4.0, call duty doctor.

