

# ADULT INTRAVENOUS HEPARIN TREATMENT CHART

## GUIDANCE FOR USE

1. Perform a Full Blood Count and coagulation screen (refer to Pathology Handbook) and document these baseline results before prescribing heparin.

|   |                                   |                     |                |
|---|-----------------------------------|---------------------|----------------|
| DRUG (APPROVED NAME)<br><i>Heparin Infusion</i> |                                   |                     | 08:00          |
| DOSE<br><i>See IV Heparin Treatment Chart</i>   | ROUTE                             | DIRECTIONS          | 12:00          |
| START DATE<br><i>01/06/08</i>                   | SIGNATURE<br><i>A. Prescriber</i> | BLEEP<br><i>999</i> | 18:00<br>22:00 |
| PHARMACY USE                                    |                                   |                     |                |

2. Heparin must also be prescribed in the Regular Drugs section of the Trust Inpatient Prescription Chart, referring to this chart for prescription specifics.

3. All Heparin Infusions must be prepared using Heparin Sodium (unfractionated Heparin) 1000 units/ml ampoules.
4. An initial IV loading dose of 5000 units should be prescribed and given over 5 minutes (by completing the preprinted prescription overleaf).
5. The continuation infusion should also be prescribed overleaf, dose and rate determined by reference to the table below (based on 18 units/kg/hour) and the time at which the initial APTT ratio should be checked should also be defined (6 hours after starting infusion).

| Weight (kg) | Initial rate (ml/hour of 1000 units/ml) |
|-------------|---|
| 41 - 50     | 0.8                                     |
| 51 - 60     | 1.0                                     |
| 61 - 70     | 1.2                                     |
| 71 - 80     | 1.4                                     |
| > 80        | 1.6                                     |

5. Prepare an IV infusion 1000 units/ml i.e. 40,000 units/40mls and commence the infusion at the prescribed rate overleaf.
6. Measure the APTT ratio 6 hours after starting the infusion as above, and then adjust the rate as per the Heparin Infusion Schedule table below, to maintain the patient APTT ratio between 1.5 and 2.5
7. Once the APTT ratio is stable, the ratio can be checked daily. If the rate (dose) is changed in any respect, the ratio must be re-checked 6 hours after any change (or sooner as indicated in the heparin infusion schedule below)

### HEPARIN INFUSION SCHEDULE

| APTT ratio | Infusion Rate Change   |
|------------|--|
| <1.2       | IV bolus 5000 units and increase rate by 0.4ml/hour<br>Repeat APTT after 4 hours |
| 1.2 - 1.4  | Increase rate by 0.2ml/hour  |
| 1.5 - 2.5  | <b>No change</b>   |
| 2.6 - 3.0  | Reduce rate by 0.1ml/hour  |
| 3.1 - 4.0  | Reduce rate by 0.2ml/hour  |
| 4.1 - 5.0  | Reduce rate by 0.3ml/hour  |
| > 5        | Stop for 1 hour and reduce rate by 0.5ml/hour.<br>Repeat APTT after 4 hours      |