

Name: \_\_\_\_\_

Room #: \_\_\_\_\_

**STAT**

## WEIGHT-BASED HEPARIN

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1. Draw baseline PTT before heparin initiated.

$$\text{PTT ratio} = \frac{\text{PTT Patient (sec)}}{\text{PTT Patient Baseline (sec)}}$$

2. Make calculations using total body weight: \_\_\_\_\_ kg  
(\_\_\_\_\_ Lbs/2.2 \_\_\_\_\_ kg) (Patient must be weighed at this time)

3. Loading dose: 90 units/kg X \_\_\_\_\_ kg = \_\_\_\_\_ units IV

- Dose not to exceed 10,000 units unless specifically ordered.
- Dose to be rounded to nearest 50 units.

4. Initial Maintenance dose: 20 units/kg per hour X \_\_\_\_\_ kg = \_\_\_\_\_ units per hour

If initial dose exceeds 1,500 units per hour, call physician for approval. Dose to be rounded to nearest 100 units per hour. Adjustments to the initial maintenance dose will be made as described below.

5. Dose adjustment

- a. PTT ratio less than 1.3

- Bolus patient with 35 units/kg (dose to be rounded to nearest 50 units)
- Increase infusion rate by 200 units per hour
- Draw next PTT six hours after infusion adjustment

- b. PTT ratio between 1.3 and less than 1.5

- Bolus patient with 25 units/kg (dose to be rounded to nearest 50 units)
- Increase infusion rate by 100 units per hour
- Draw next PTT six hours after infusion adjustment

- c. PTT ratio between 1.5 and less than 1.8

- Bolus patient with 15 units/kg (dose to be rounded to nearest 50 units)
- Increase infusion rate by 100 units per hour
- Draw next PTT six hours after infusion adjustment

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### **WEIGHT-BASED HEPARIN**

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- d. PTT ratio between 1.8 and less than 2
    - Increase infusion rate by 100 units per hour
    - Draw next PTT six hours after infusion adjustment
  
  - e. PTT ratio between 2 and 2.5
    - Continue current infusion rate
    - Draw next PTT with A.M. blood draw (at least four hours after present PTT)
  
  - f. PTT ratio greater than 2.5 and up to 3
    - Decrease infusion rate by 100 units per hour
    - Draw next PTT six hours after infusion adjustment
  
  - g. PTT ratio greater than 3
    - Stop heparin infusion for one hour
    - After one hour, decrease infusion rate by 200 unit per hour
    - Draw next PTT six hours after infusion resumed at the decreased rate
6. Monitoring
- a. First PTT drawn eight hours after heparin initiation. Subsequent PTT draws determined by dosage adjustment.
  - b. Notify physician of bleeding.
  - c. CBC and platelet count every other day while on heparin therapy. Notify physician if platelets are less than 100,000.
  - d. Daily PTT while on heparin therapy

Physician Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_