**Continuous Infusions: Heparin Infusion (Nurse Titration)**

Quick Reference Guide

This QRG is specifically for nurses competent in titrating heparin infusion rates (1C, 3C, 3E & CCU) and perform a Phone/Verbal order.

Follow the steps below to titrate a heparin infusion:

**Begin Bag (Syringe)**

1. Click **MAR** from the **Menu**.
2. Locate the heparin infusion (under **Continuous Infusions**).
3. Click on the pending task icon associated with the heparin infusion.

The **IV Administration** window will open.

4. Enter the nurse witness in the **witnessed by** section:

5. Use the **to search and select the nurse witness’ name**

6. Select the **Site**:

7. Click **Apply**

8. The nurse witness will now enter in their credentials.

9. Click the **to sign**

10. **Refresh** the page to reflect the updated information.

   The results column will now populate with:

   **Begin Bag 50 mL 2.92 mL/hr**
   18 unit/kg/hr. Auth. (Verified)

**Subtherapeutic APTT**

For this example, an APTT of 50 will be used to demonstrate appropriate workflow:

1. Review the patient’s latest APTT result

   There are two ways to do this:

   1. Select **Results** from the menu.
   2. Select **Orders** from the menu then select the **Related Results** navigator band.

2. Once you and the witness have reviewed the latest APTT, return back to the **View** navigator band and locate the **Heparin Infusion PowerPlan**:

   **Heparin IV Infusion DVT or PE - Adult**
   **Heparin IV Infusion Order (Initiated)**

3. Select the appropriate phase (based on the APTT)

   **APTT less then 55 (Planned)**

4. Read all information provided with the witness present.

5. There are several orders available below if required:

6. Begin by modifying the existing heparin infusion order based on the information provided, by selecting the **IV Infusion Order** phase:

   **Heparin IV Infusion Order (Initiated)**

7. Locate the heparin infusion order, right click then select **modify**.

8. Select the **Continuous Details** tab.

9. Modify the **Normalized Rate** as per the **PowerPlan**:

   **23 unit/kg/hr**

10. Select the **Details** tab.

11. Document the nurse witnesses name:

    **Nurse Witness:** John Smith RN

Whenever entering in witnesses details, be sure to include their **full first name, last name and designation**.
12. Select the Orders For Signature.
13. Review the modified infusion rate with the witness:
   ![heparin additive 2500 unit(s) [23 unit/kg/hr] ...]
14. Click back into the APTT appropriate phase:
   APTT less than 55 (Planned)
15. To order the re-bolus, select the next to the heparin
   The heparin dosage calculator window will open.
16. Once this calculator has been witnessed and checked select the Apply Dose.
17. Select the heparin bolus order:
   ![heparin]
18. Enter the nurse witnesses details in the relevant field:
   Nurse Witness:
19. Order the next APTT, click the next to the:
   +6 hr Activated Partial Thromboplastin Time (APTT)
20. Check there are ticks in each box:
   ![heparin]
   ![+6 hr Activated Partial Thromboplastin Time (APTT)]
21. The phase will need to be initiated. Click
   ![Initiate]
22. Click the Orders For Signature and Sign
23. Navigate back to the MAR and find the orders.
24. Click in the Pending window to open the administration window.
   ![Pending Not given within 7 days.]
25. Click on the Rate Change.
   A hyperlink for the rate change will display.
26. Click on the hyperlink:
   New Rate: 3.75 mL/hr
27. The witness will put their name in the witnessed by box.
28. Click
29. Witness will put their password in.
30. Click to sign. Refresh the MAR.

Supratherapeutic APTT
For this example, an APTT of 205 will be used to demonstrate appropriate workflow:
1. Review the patient’s latest APTT result:
2. Once you and the witness have reviewed the latest APTT, return back to the navigator band and locate the Heparin Infusion PowerPlan:
   ![Heparin IV Infusion DVT or PE - Adult Heparin IV Infusion Order (Initiated)]
3. Select the appropriate phase based on the APTT:
   APTT greater than 200 (Planned)
4. Read all the information provided with the witness present.
5. There are several orders available below if required:
   ![Heparin infusion WITHHOLD 120 minutes]
   +2 hr Activated Partial Thromboplastin Time (APTT)
6. Begin by modifying the heparin infusion order based on the information provided, by selecting the IV infusion Order phase:
   ![Heparin IV Infusion Order (Initiated)]
7. Locate the heparin infusion order, right click then select modify.
   ![Renew Modify]
   The Ordering Physician window will open.
8. Enter the *Physician name
21. Document the nurse witnesses name:
   Nurse Witness:  John Smith RN

22. Now click  Orders For Signature  and
   
   ![Sign Button]

23. Navigate back to the  MAR  and refresh to find the orders.
   
   ![Heparin Order]

24. Click in the  Pending  window to open the administration window
   
   ![Pending Window]

   The heparin WITHHOLD 120 minute order will show underneath the order for the heparin infusion. There is no administration task to this order. All changes to heparin will be documented against original order.

25. Click on the  Rate Change  
26. A hyperlink for the rate change will display. Click on the hyperlink:
   
   ![New Rate 3.24 mL/hr]

27. The witness will put their name in the witnessed by box.

28. Click  Apply 
29. Witness will put their password in.

30.  to sign. Refresh the  MAR 

### Replicating a Phase Previously Used

For this example, the APTT is still greater than 200.

1. Review the patient’s latest APTT result:
2. Once you and the witness have reviewed the latest APTT, return back to the navigator band and locate the Heparin Infusion PowerPlan.
   
   ![Heparin IV Infusion DVT or PE - Adult]

3. Right click on the phase and select  Replicate.
4. Click **OK** on the *PowerPlan Services* window.

5. A duplicate phase will appear.

6. Repeat instructions as per the appropriate APTT level workflow instructions.