Weight Based Heparin Protocol

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The current heparin protocol is being replaced with condition specific protocols that are developed with weight based dosing.

Research has shown that weight based dosing results in a patient becoming therapeutic in a more timely manner which decreased the risk of clot formation and/or expansion.
Nursing Process- Order Entry

• When searching for heparin there will be three protocols and one Set Rate infusion available.

• Protocols are condition specific, if the nurse is entering the PowerPlan, you must ask the provider which protocol they would like for the patient.
• Task for Nurse to Order Lab Test in Future for first PTT will still fire to the PAL.
The ACS (Acute Coronary Syndrome) Protocol has the post catheterization orders.

<table>
<thead>
<tr>
<th>Medications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS</td>
</tr>
<tr>
<td>ACS/Impella - BOLUS and WEIGHT BASED INFUSION</td>
</tr>
<tr>
<td>ACS/Impella - NO BOLUS - WEIGHT BASED INFUSION</td>
</tr>
<tr>
<td>ACS/Impella - TRANSFER/CONTINUE PREVIOUS/CURRENT RATE</td>
</tr>
<tr>
<td>Post Catheterization</td>
</tr>
<tr>
<td>Post Catheterization - NO BOLUS - WEIGHT BASED INFUSION</td>
</tr>
<tr>
<td>Post Catheterization - NO BOLUS - RESUME PRIOR INFUSION RATE</td>
</tr>
</tbody>
</table>

Set Rate Protocol no titration needed.

<table>
<thead>
<tr>
<th>Medications</th>
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<tbody>
<tr>
<td>heparin (Heparin IVPush)</td>
</tr>
<tr>
<td>heparin (Heparin Drip SET RATE)</td>
</tr>
</tbody>
</table>

unit/kg, IVPush, ONCE (ABW) Actual Body Weight should be used for dose calculation. Maximum dose 10,000 units. unit/hr, IV, 500 mL SET RATE - DO NOT TITRATE MAXIMUM rate of 2,300 unit/hr.
Pharmacy Process

- All heparin protocol orders go to pharmacy as a **STAT**.
- Pharmacy will verify the order and enter the following details within the heparin protocol order details:
  1. Current body weight - **needed** for Alaris pump set up
  2. Initial infusion rate - **needed** for Alaris pump set up
  3. Initial dose - will be calculated by the Alaris pump
- Pharmacy will call the nurse with the initial rate.
- Those details are needed to complete the set up for the Alaris pump.
**Hover** over the heparin order details **to discover** the weight and dose. This information is needed for the Alaris pump set up.
Select Heparin Protocol on the Alaris screen.
Select “Yes”
Enter the patient’s weight in kg.
Enter the Rate and the Dose will auto fill in.
PDA Screen Shots- Begin Bag

The Titratable dosing or Actual Body weight will pull in if it has been entered with the admission ht/wt task.

If the Titratable dosing or Actual Body weight is not entered this will be a mandatory field to complete.

1. Enter the Dose unit- unit/kg/hr
2. Enter the Rate
3. Dose will auto calculate
4. Verify the numbers match the order details.
What to do when the PTT is Resulted

- Go to Orders view to see which Heparin Protocol is ordered.

- Click the + Add button.
- Search
- Choose the correct Nursing- Heparin Re-Order Protocol.

- Enter Nurse, Per Protocol/Policy/Existing Order communication.
**Nursing Heparin Re-Order Careset**

Based on the PTT, users **must** place a checkmark in all boxes within that section.

May have to scroll to see the whole screen.
Nursing Heparin Re-Order Careset

- After you have selected the correct PTT orders, complete the Details window.
- Dose in units/kg/hr is **mandatory** to fill in.
- The adjusted/new Dose is entered.
A patient must have **TWO consecutive therapeutic** PTT’s to move to daily PTT’s.

Use the 2\textsuperscript{nd} therapeutic PTT section for the 3\textsuperscript{rd} or subsequent PTT’s.

Use the Results section to see the patient’s PTT’s and verify if they have had **two** therapeutic PTT’s.
Pharmacy Re-Order Verify Process

After nursing has completed the Heparin Re-Order Careset process:

- Orders will come across as STAT pharmacy.
- If a bolus is needed the pharmacist will calculate the dose and send a medication order to the PAL and PDA.
- If a Dose change is needed make the adjustment on the Alaris pump.
- Administer the heparin bolus dose.
This icon means immediate priority (STAT)
Heparin Re-Order Process - Alaris Pump

When adjustments need to be made based on the PTT the **Dose** is changed not the Rate on the Alaris pump.

<table>
<thead>
<tr>
<th>Task</th>
<th>Current Dose</th>
<th>Adjusted Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>aPTT 30 to 40 seconds</td>
<td>20 mL/h</td>
<td>22.8 mL/h</td>
</tr>
<tr>
<td>heparin (Heparin REBOLUS - POST-CATH)</td>
<td>14.29 unit/kg/h</td>
<td>16.29 unit/kg/h</td>
</tr>
<tr>
<td>Visc Task</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TT (Heparin Protocol) (30 - 40 seconds)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notice:**
- Current Dose: 20 mL/h, 14.29 unit/kg/h
- Adjusted Dose: 22.8 mL/h, 16.29 unit/kg/h
Interactive View and Intake & Output

Go to IView to chart your hourly drip rate in the IV drips section, then go to I & O to chart the hourly volumes.
Reference Text- Heparin Protocol

1. Click on the Heparin Protocol.
2. Click the paper icon on the Heparin Protocol Adjustment, within Protocols/Standards.
3. Click to view the Heparin Protocol. You can print or view the protocol.

Each protocol has its own reference text.
1. Click on the Orders tab on the menu.
2. On the View navigator select Protocols/Standards.
3. Heparin Protocol Adjustment Reference Text will be listed.
4. Click on piece of paper to view the reference text.

Click here to view the Heparin Protocol Adjustment - ACS reference text
1. Click on the Clinical EHR icon.
2. Select the Heparin Protocol.
3. Select PowerPoint, quick instructions, or Reference Text.
Thank You