ASAP

JHH ED Heparin workflow

Ordering and administering Heparin in the JHH EDs



1. If clinically indicated, an ED provider will order Heparin for the patient using an Order Set (either the JHH ED Heparin or JHH ED Chest Pain/ACS Order Sets). One of the three targets needs to be selected:



2. A hard stop is built into the infusion order that requires that requires the selection of a **Dose**. The nomogram is built into the order instructions for reference:



▼ heparin 25,	000 units in sodium chloride 0.45 % 250 mL infusion (low dose nomogram) Intravenous, Continuous, Starting Today at 1424	<u>A</u> ccept <u>C</u> ancel
Order Inst.:	LOW Target Initial Infusion Rate: Patient Wt (kg) Initial Infusion Patient Wt (kg) Initia <= 34 kg 400 units/hr 65-74 kg 850 ur 35-44 kg 500 units/hr 75-84 kg 950 ur 45-54 kg 600 units/hr >= 85 kg 1,000 55-64 kg 700 units/hr	al Infusion hits/hr hits/hr units/hr (max)
Reference Links: Oose:	1. Micromedex 400 Units/hr 500 Units/hr 700 Units/hr 850 Units/hr 1.000 Units/hr	600 Units/hr 950 Units/hr
Route: Frequency:	Intravenous Intravenous Continuous Continuous For: C Hours C Days Starting: 7/31/2014 Today Tomorrow At: 1423 Starting: Today 1424 Until Discontinued Scheduled Times: Show Schedule	Show Additional Options
Admin. Inst.: Priority:	Maximum 1.000 units/hr.	

3. Once the orders are signed, a warning message will appear. At this time, it cannot be suppressed. Choose the reason- **Benefit outweighs risk** and click **Override and Accept**:

A Medication Warnings		
Current Warnings Report		
Current Warnings (1 unfiltered, 2 filtered)	Associate	ed Orders
High Duplicate Therapy: he Heparin, Antithrombin Agents Details	parin (porcine) ≥ 50 mL Pr ⇒ Facility Override Reason ▼ □ heparin (porcine) Applied to the part of the pa	5,000 units in sodium chloride 0.45 % Remove emix, Continuous administered. New. orcine) 5,000 unit/mL bolus 60 ose, Once administered. New.
Immediately override all warnings:	Clinician Reviewed Defer to RPh Dose Appropriate	Benefit outweighs risk
	Benefit outweighs risk Inaccurate Warning	
Show filtered warnings (2)		<u>⊘ Override and Accept</u> <u>Cancel</u>

4. Nurses should go through their usual process of acknowledging the orders and administering the bolus and starting the infusion. Note- heparin is a dual sign off med and will require sign off from a second nurse:



User Authentication	
User	Authentication
1	Patient: New,Admit
Dua	I Signoff Second User:
User ID:	
Password:	
	<u>O</u> K <u>C</u> ancel
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5. Following the guidelines set forth in the Nurse Driven Heparin Protocol, a repeat aPTT needs to be ordered at the specified time (6-12-or 18 hours). This can be done from the **Orders** tab of the ED Narrator. Type **aPTT** in the Additional Orders field and select **APTT-Heparin**, **RN Managed**. Be sure to change the Order mode to **Per protocol: no cosign required** and click **Sign Orders**:

Event Log Patient Summary Physical Diagram Orders	
Grder Sets	click to open
Search +Add Advanced	
🗖 ED Lumbar Puncture 🔯	🗖 JHH ED Peds Fever Immunocompromised Host 🛛 👌
🗍 JHH Adult Blood Products Orders and Administration 🗟	
Right click on an Order Set to add to favorites.	✓ Open Order Sets X Clear Selection X Remove Open
☑ Orders	↑ ↓
Select/Release Sign and Held Orders Select Pended Orders	hew Order Clear All Orders
Routing Dx Association	
Order mode: Per protocol: no cosign required Providers	🚀 Sign Orders
Additional Orders	
💠 Search 🔽 Pref List	
APTT-Heparin, RN Managed Once First occurrence Today at 1610	Remove
Routing Dx Association	
Order mode: Per protocol: no cosign required Providers	Sign Orders
Close F9	👚 Previous F7 🐥 Next F8

6. Once resulted, the nurse is able to adjust the rate of the heparin infusion by clicking on the heparin infusion hyperlink in the ED Narrator and changing the **Action** to **Rate/Dose Change**



Action:		
Rate/Dose Change	•	
Due		
New Bag		
Started During Downtime		
Restarted		
Stopped		
Paused		
Rate/Dose Change		
Rate/Dose Verify		is/m
Handoff		

7. The dose should be changed following the printed nomogram. If a warning appears, the nurse should select the Override reason of **Titratable drug** and click **Accept**:

Administration Warning			
8 Dose entered is less than dose ordered			
heparin 25,000 units in sodium ch Entered: 600 Units/hr Ordered: 700 Units/hr Cancel and re-evaluate the dose or Select an override reason.	loride 0.45 % 250 mL infusion (low dose nomogram)		
Override reason:	Titratable drug		
	<u>A</u> ccept <u>C</u> ancel		

Dual signoff will also be required for Dose/Rate changes

8. The order for the rebolus/repeat bolus will also appear on the MAR and the ED Narrator to use when documenting a rebolus or repeat bolus based on the aPTT value and the nomogram:



9. If nurses would like to see all of the Dose/Rate changes that occurred while the patient was in the ED, they can go to the **MAR** activity:



	Thursday July 31, 2014					
Triage	1000	1100	1200	1300	1400	1500
	dextrose 50% in water	D50W) injection 25 g : Dos	e 25 g : Intravenous : Ever	20 min PRN : Low blood su	ıgar, if blood glucose < 60 m	g/dL
88						
ED Narrator						
Code Narrator						
Sedation Narrator	glucagon (GLUCAGEN)	injection 1 mg : Dose 1 mg	: Intramuscular : Once :	Ż		
Trauma Narrator				1317 Due		
Disposition	heparin 25,000 units in	sodium chloride 0.45 % 250) mL infusion (low dose n	iomogram):Dose 700 Uni	ts/hr:7 mL/hr:Intravenous	: Continuous : 🛃
MAR					1426 NewBag	
Manage Orders					1400 Date Cha	
Stroke					600 Units/hr	
Post Mortem						
Case Managem						8

