

Michelle Endresz

From: Heidi Chapman on behalf of Amy Tucker
Sent: Tuesday, August 15, 2023 11:36 AM
To: Amy Tucker
Cc: Christopher D. Miller; Heidi Chapman
Subject: CMO BLAST: Changes to High Dose Heparin Infusion Protocol

Importance: High

Sent on behalf of Christopher Miller, PharmD., BCPS...

Issue: There has been a change in heparin anti-Xa level upper limit reporting. This requires a modification to the high dose heparin infusion order set and nursing dose calculator.

Summary of change: Heparin anti-Xa levels previously reported out to a level of 1.4. As such, the existing order set and nursing dose calculator provided dose modification instructions that differed if the level was between 1.0 and 1.4 versus >1.4. Now that levels are only reported up to 1.1, the dose modification instructions have been consolidated so that all levels >1.1 are treated the same. There will no longer be different dose modification instructions if the level is between 1.2 to 1.4 versus greater than 1.4.

This change does not affect the low dose heparin protocol since that protocol uses a level of 1.0 as the highest level for dose modifications.

Screen shots of how the new orders will read are shown below:

High Dose Anti-Xa 0.71-0.80 Instructions (cont.): Next anti-Xa unfractionated heparin level 6 hrs after dose adjustment
High Dose Anti-Xa 0.81-0.99 Maintenance Dose Adjustment (units/hr): -150
High Dose Anti-Xa 0.81-0.99 Bolus Dose (units/kg): 0
High Dose Anti-Xa 0.81-0.99 Additional Instructions: Decrease by 3 mL/hr (150 units/hr)
High Dose Anti-Xa 0.81-0.99 Instructions (cont.): Next anti-Xa unfractionated heparin level 6 hrs after dose adjustment
High Dose Anti-Xa 1.0-1.1 Maintenance Dose Adjustment (units/hr): -200
High Dose Anti-Xa 1.0-1.1 Bolus Dose (units/kg): 0
High Dose Anti-Xa 1.0-1.1 Additional Instructions: Stop infusion for 1 hour (Comment: then decrease by 4 mL/hr (200 units/hr))
High Dose Anti-Xa 1.0-1.1 Instructions (cont.): Next anti-Xa unfractionated heparin level 6 hrs after dose adjustment
High Dose Anti-Xa >1.1 Maintenance Dose Adjustment (units/hr): -300
High Dose Anti-Xa >1.1 Bolus Dose (units/kg): 0
High Dose Anti-Xa >1.1 Additional Instructions: Stop infusion for at least 2 hours and notify HO. Obtain Heparin AntiXa level every 2 hours until level is less than 0.70
High Dose Anti-Xa >1.1 Instructions (cont.): Resume infusion after decreasing the dose by 6 mL/hr (300 units/hr)

heparin in NaCl 0.45 % HIGH DOSE WITH BOLUS infusion 50 units/mL  Dose: 700-3,000 Units/hr : 14-60 mL/hr : Intravenous : Continuous

Additional Instructions:	
High Dose Anti-Xa 0.81-0.99 Instructions (cont.):	Next anti-Xa unfractionated heparin level 6 hrs after dose adjustment
High Dose Anti-Xa 1.0-1.1 Maintenance Dose Adjustment (units/hr):	-200
High Dose Anti-Xa 1.0-1.1 Bolus Dose (units/kg):	0
High Dose Anti-Xa 1.0-1.1 Additional Instructions:	Stop infusion for 1 hour (Comment: then decrease by 4 mL/hr (200 units/hr))
High Dose Anti-Xa 1.0-1.1 Instructions (cont.):	Next anti-Xa unfractionated heparin level 6 hrs after dose adjustment
High Dose Anti-Xa >1.1 Maintenance Dose Adjustment (units/hr):	-300
High Dose Anti-Xa >1.1 Bolus Dose (units/kg):	0
High Dose Anti-Xa >1.1 Additional Instructions:	Stop infusion for at least 2 hours and notify HO. Obtain Heparin AntiXa level every 2 hours until level is less than 0.70
High Dose Anti-Xa >1.1 Instructions (cont.):	Resume infusion after decreasing the dose by 6 mL/hr (300 units/hr)

Best,
Amy

Amy Tucker, MD, MHCM
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