
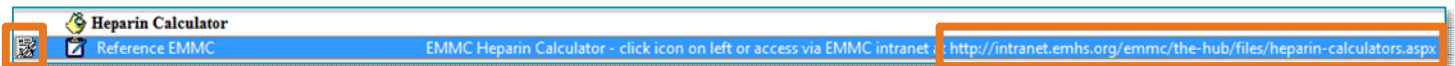


Various PowerPlans containing Heparin infusion orders, Anti-Xa monitoring, and intranet-based Heparin calculators, are available for NL EMMC, NL AR Gould Hospital, and NL Mercy Hospital. This flyer reviews the process for using these PowerPlans and the embedded Heparin calculator hyperlinks.

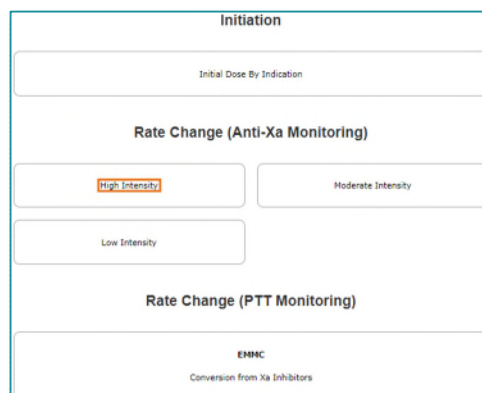
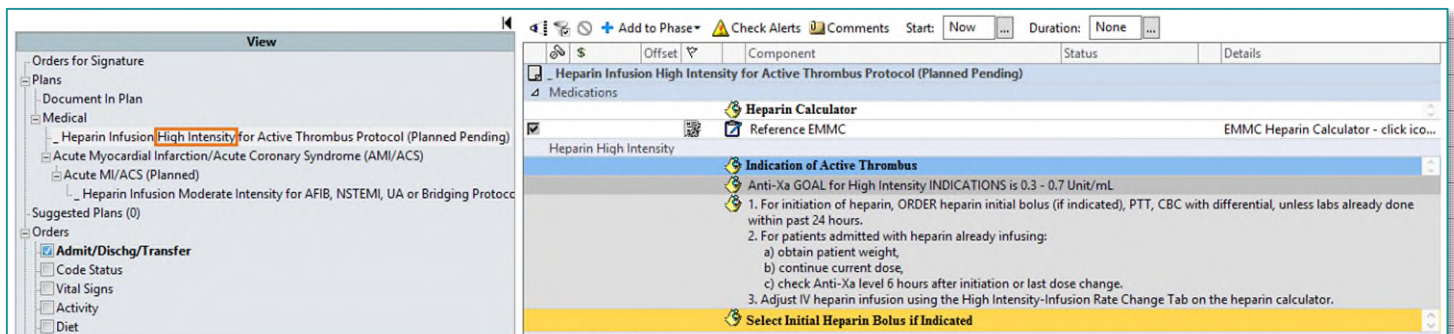
Available Resources within the Heparin PowerPlans

➤ Heparin Calculator


- A unique **Heparin Calculator**, based on the site's Anti-Xa lab values, is available for each organization.
- Click the **Evidence-Based Information**  icon to access an organization's **Heparin Calculator**.
- The web address for your site's heparin calculator is also listed in the **Details** column.



- The PowerPlan name is listed under the Medical section within the **Orders** profile **View** pane.
 - **The name correlates to the Heparin Calculator option you should select.**
 - For example, the High Intensity Heparin Calculator option should be used for the **High Intensity PowerPlan** selected in the screenshot below.



➤ Downtime Table

- Click the **Reference**  icon, located to the right of the **Evidence-Based Information** icon, to access the **Downtime Table**.
- This tool is to be used if and when the organization’s Heparin calculator is not available.

NOTE: Heparin boluses are now rounded to nearest 50 units based on patient weight.

Enter Patient Weight in kg	Enter Current Rate units/kg/hr	Enter Anti-Xa	Bolus	Infusion	Next Anti-Xa
value	enter rate	less than 0.2	25 units/kg (Not to Exceed 2,500 units)	Increase 2 units/kg/hr	6 hours
value	0	less than 0.2	0	**ENTER LAST RATE WHEN PATIENT ON HEPARIN** & Decrease 1 units/kg/hr	3 hours
value	enter rate	0.2 - 0.29	10 units/kg (Not to Exceed 1,000 units)	Increase 1 units/kg/hr	6 hours
				ENTER LAST RATE WHEN PATIENT ON HEPARIN &	

Orders within the Heparin PowerPlans

➤ Anti-Xa Levels

- The **Communication** section allows the Nurse or Pharmacist to order Anti-Xa levels.
- If the nurse has not yet placed the order for Anti-Xa, **the Pharmacist may place the lab orders.**

<input checked="" type="checkbox"/> Provider Communication	Nurse or pharmacist may order Anti-Xa levels as instructed by the heparin calculator
<input checked="" type="checkbox"/> Provider Communication	Nurse may order daily Anti-Xa levels, if needed (in the event that the patient is on heparin greater than 10 days)

➤ Pharmacist to Dose

- **Pharmacy to Dose, Pharmacy to Monitor** is an available option within the Heparin Infusion section.
- This order may be placed by the Pharmacist if not ordered by the Provider.

Select Initial Heparin Bolus if Indicated		
<input type="checkbox"/>	heparin (Heparin initial bolus...)	60 units/kg, Soln, IVP, ONCE, Indication: Heparin Protocol Initial Bolus
<input checked="" type="checkbox"/>	heparin (Heparin 25,000 units/500 mL D5W (Premix))	Tot Vol: 500 mL, Titrate, Soln, IV, Anti-Xa Goal for Moderate Intensity is 0.3 - 0.7 Unit/mL Adjust IV heparin infusion using Moderate Intensity-Infusion Rate Change tab on heparin calculator.
<input type="checkbox"/>	heparin IV - Pharmacy to Dos.	Daily, Reason: Pharmacy to Monitor Only, Comment: Anti-Xa Goal for Moderate Intensity is 0.3 - 0.7 Unit...
<input checked="" type="checkbox"/>	heparin (Heparin (MAX Dose 2,500 Units))	25 units/kg, Soln, IVP, Every 6 Hours, PRN, Heparin Protocol (Anti-Xa), Anti-Xa GOAL for Moderate Inten... Calculate IV heparin bolus using Moderate Intensity-Infusion Rate Change Tab on heparin calculator.

Pharmacy Dosing and Monitoring

➤ Pharmacy to Dose/Monitor Task

- The order **Heparin IV – Pharmacy to Dose/Monitor** fires a task to the Pharmacist.

- Click the task in the **Task List** to open the **IV INFUSIONS Anticoagulation Therapeutic Drug Monitoring & Dosing PowerForm**.

	Date	Med	CrCl	PTT	Anti-Xa Hep	INR	PLT	Action	Dose /Hr	mL/hr	Comment
1	07/20/2022 15:44	Heparin	100		0.3		150	Increased	12 units/kg/hr	50 mL/hr	

- This documentation is accessible to Nurses and Providers via the Forms Browser link.

➤ **Notify Pharmacy when Lab Resulted Order**

- If the PTT or Anti-Xa is pending, the **Notify Pharmacy when Lab Resulted** order should be placed.
- This will generate a task on the Pharmacist Task List when the lab is resulted.

IV INFUSIONS Anticoagulation Therapeutic Drug Monitoring & Dosing

IV Medication Heparin Argatroban Bivalirudin Other: Bridging? Yes No Other:

Indication Atrial fibrillation/flutter Myocardial Infarction Mitral Valve Replacement - Mechanical
 Cardiomyopathy Aortic Valve Replacement - Bioprosthetic VTE - Acute (DVT/PE)
 Cerebrovascular event (stroke/TIA) Aortic Valve Replacement - Mechanical VTE - History (DVT/PE)
 Hypercoagulable disorder Mitral Valve Replacement - Bioprosthetic Other:

Segoe UI B U I S

Patient IV Anticoagulant Note

Pharmacist Therapeutic drug monitoring Pharmacy to dose Other: Time (min)

Renal Function No Scr or CrCl results found Provider

Hemogram No hemoglobin, hematocrit or Platelet results found. Weight Body Mass Index: 29.41 kg/m2 (06/22/22 16:09:00)
Weight: 85 kg (06/22/22 16:09:00)

Coagulation No PTT, PT or INR results found anti-Xa Hep No anti-Xa Hep results found
Total Bilirubin No Total Bilirubin results found

Reversal Reference

IV Anticoagulation TDM/PTD Flowsheet

	Date	Med	CrCl	PTT	Anti-Xa Hep	INR	PLT	Action	Dose /Hr	mL/hr	Comment	Name
1	<Date/Time >	<Alpha>						<Alpha>				
2	<Date/Time >	<Alpha>						<Alpha>				
3	<Date/Time >	<Alpha>						<Alpha>				