

#### REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

GENERIC NAME

## heparin



Effective Date: Dec 2011 CLASSIFICATION OTHER NAMES PAGE

Revised Date: Nov 2023

Anticoagulant

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**ADMINISTRATION POLICY:** 

IV Infusion — May be administered by a nurse at Regional sites with 24/7 lab access on site

NOTE: Heparin continuous infusion may be initiated with the direction of a prescriber before the patient is

transferred to a site that can measure aPTT.

IV Bolus — May be administered by a nurse Subcutaneous — May be administered by a nurse CVAD Lock — May be administered by a nurse

*IM Injection* — Not to be administered

RECONSTITUTION/DILUTION/ADMINISTRATION:

**Note:** Heparin is available in multiple concentrations and vial sizes. Use caution when selecting a product.

**Available as:** IV bolus: Use 1000 units/mL

IV continuous: Use pre-mix heparin in D5W (Heparin 25,000 units in 250 mL)

Subcutaneous: Use 5000 units/0.5 mL vial

CVAD Lock: Use 100 units/mL pre-filled syringe

IV Bolus/ Subcut: Administer undiluted

IV Continuous: Pump Library: Note: Use tubing with no access ports

heparin ACS

neparm res				
Drug Library	Rate	Short Name	Care Unit	
Yes	units/h	hepACS	Critical Care & General	
Drug	Diluent	Final Volume (VTBI)	Final Concentration	
25000 units pre-mixed	250 mL pre-mixed	250 mL	100 units/mL	

Clinical Advisory: High Alert

Soft Low Dose Limit: 480 units/h Soft High Dose Limit: 1000 units/h

heparin VTE

neparm vie				
Drug Library	Rate	Short Name	Care Unit	
Yes	units/h	hepVTE	Critical Care & General	
Drug	Diluent	Final Volume (VTBI)	Final Concentration	
25000 units pre-mixed	250 mL pre-mixed	250 mL	100 units/mL	
Clinical Advisory: High Al	ert			

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Soft Low Dose Limit: 700 units/h

Soft High Dose Limit: 2150 units/h



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**DOSAGE:** 

Acute Coronary Syndromes (Acute MI with or without thrombolytic therapy and unstable angina):

**Loading dose:** IV bolus: 60 units/kg

Give undiluted (1000 units/mL) over 1 to 2 minutes

Maximum dose: 4000 units

**Maintenance dose:** Initial infusion rate of 12 units/kg/hour

Maximum rate: Initial infusion not to exceed 1000 units/hour then adjust rate according to heparin

nomogram (PTT values).

**Primary Angioplasty/Percutaneous Coronary Intervention:** 

**IV bolus:** 70 units/kg x 1 dose

Maximum dose: 10 000 units

Thromboembolism/Pulmonary Embolism:

Loading dose: IV bolus: 80 units/kg

Give undiluted (1000 units/mL) over 1 to 2 minutes

**Maximum dose:** 9600 units

Maintenance dose: Initial infusion rate of 18 units/kg/hour

**Maximum rate:** 2150 units/hour. Adjust rate to 1.5 to 2.5 times the PTT

**Thromboembolism Prophylaxis:** 

**Usual:** Subcut: 5000 units every 8 to 12 hours

**Central Venous Access Device Locking (non-hemodialysis):** 

Open-ended, non-valved devices (e.g. Arrow, Hickman, Cooks catheters):

200 units (2 x 100units/mL) per lumen

When the catheter is not in use, locking is required weekly

**Implanted Ports:** 300 units (3 x 100 units/mL)

When the catheter is not in use, locking is required monthly

Maximum rate: IV bolus: Over 1 to 2 minutes

IV continuous: Dose dependant

Maximum concentration: IV bolus: 1000 units

IV continuous: 100 units/mL

STABILITY/COMPATIBILITY:

**Stability of Final Admixture:** 24 hours at room temperature

Compatibility: Compatible with normal saline, D5W and combination dextrose/saline solutions

#### PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

• Bleeding, thrombocytopenia



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### ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

- Monitor CBC, aPTT, platelets
- IF PREMIXED BAG UNAVAILABLE:
  - O Use D5W 250 mL bag
  - o Remove 25 mL of solution and discard
  - o Add 25,000 units heparin (25 mL of 1000 units per mL concentration)
  - o Final concentration 100 units/mL
- *ANTIDOTE*: protamine sulfate