

**Anticoagulant Reversal
Heparin Orders**

- Directions: 1. Indicate choice when options are available by placing a check in the box
 2. Mark through entire line any prechecked item you **do not** wish to order ~~mark through~~

Attending Physician: _____ Diagnosis: _____
 Observation Status Admission for Inpatient Care Admit or transfer to: _____ Unit

ALLERGIES: NKA **ALLERGIC to:** _____

VITAL SIGNS:

- Vital signs now; THEN
- Vital signs every 15 minutes x 3 after initiation of **protamine sulfate**
- Monitor for signs of anaphylaxis to **protamine sulfate**
 Anaphylaxis signs: itching, hives, swelling of face or hands, trouble breathing, throat swelling

MEDICATIONS: (Do **NOT** give more than 50 mg of **protamine** in less than 10 minute interval)

- Discontinue **ANY** form of **heparin** being used (**heparin, enoxaparin, fondaparinux, dalteparin**)
- Reversal of continuous infusion heparin dosing: protamine sulfate 25 mg IV push no faster than 5 mg/minute**
- Reversal of continuous infusion heparin dosing: protamine sulfate 50 mg IV push no faster than 5 mg/minute**

NOTE: Reversal of **LMWH (low molecular weight heparin): protamine** is not currently an FDA recommended agent for reversal of **LMWH (low molecular weight heparin)** such as **enoxaparin (Lovenox), fondaparinux (Arixtra)** and **dalteparin (Fragmin)**. If it is felt that **protamine** would be of benefit, **call a pharmacist for further dosing recommendations.**

- Reversal of intermittent heparin dosing: protamine sulfate _____ mg IV push no faster than 5 mg/minute**

Reversal of Intermittent Heparin dosing: Calculation to Determine Dose of Protamine		
Last Dose of Heparin TIME	Amount of Protamine/100 units of Heparin given last dose	Last Dose of Heparin Amount
If dose of heparin was given less than 30 minutes ago	Give protamine 1mg/100 units of heparin given during last dose	____ (last dose) x 1mg/100 units = ____ mg of protamine
If dose of heparin was given 30 minutes to 1 hour ago	Give protamine 0.5mg/100 units of heparin given during the last dose	____ (last dose) x 0.5mg/100 units = ____ mg of protamine
If dose of heparin was give more than 2 hours ago	Give protamine 0.25 mg/100 units of heparin given during last dose	____ (last dose) x 0.25mg/100 units = ____ mg of protamine

LABORATORY:

- Baseline aPTT prior to **protamine** initiation
- Baseline CBC with Differential prior to **protamine** initiation
- Baseline PT/INR prior to **protamine** initiation
- aPTT every 6 hours after **protamine** initiation
- aPTT every 8 hours after **protamine** initiation
- aPTT every 12 hours after **protamine** initiation
- aPTT daily after **protamine** initiation

ADDITIONAL ORDERS:

Physician _____ Pager: _____ Date: ____ / ____ / ____ Time: _____

Verbal Order Verification Signature _____ Date: ____ / ____ / ____ Time: _____

Patient Identification