

Protamine Protocol

Dilute in 100ml of 0.9% NaCl

Stable for at least 10 days at room temperature

Do not give any faster than 50mg per 10 minutes

May cause severe hypotension and bradycardia. Patients who are having cardiovascular symptoms already may need the drug to be administered slower (i.e. 50mg per hour)

Dosing:

Heparin overdose:	
Time since Heparin was given	Dose of Protamine
< 30 minutes	1-1.5mg per 100 units of Heparin given
> 30 minutes	0.5mg per 100 units of Heparin given
> 2 hours	0.25-0.375mg per 100 units of Heparin given

Lovenox overdose:	
Time since Lovenox was given	Dose of protamine
0-8 hours	1mg per mg of Lovenox given
8-12 hours	0.5mg per mg of Lovenox given
> 12 hours	Protamine is probably not required

Dalteparin overdose:
Give 1mg of protamine per 100 anti-Xa units of dalteparin. Infusion may be repeated if aPTT remains prolonged 2-4 hours after giving first dose of protamine.

Adverse reactions: Hypotension, bradycardia, circulatory collapse, bronchospasm, anaphylaxis, pulmonary edema/hypertension.