

\*Check orders to determine which algorithm to use\*

**REGULAR Intensity (Anti-Xa Goal: 0.3 - 0.7 units/mL)**

ANTI-Xa LEVEL (units/mL)	RE-BOLUS	INFUSION HOLD TIME	CHANGE INFUSION DOSE (units/kg/hr)	NEXT ANTI-Xa LEVEL
< 0.1 Notify provider for 2 consecutive Anti-Xa < 0.3	ONLY if ordered by provider (see prn orders)	None	Increase by 4 units/kg/hr	6 hours
0.1 – 0.19 Notify provider for 2 consecutive Anti-Xa < 0.3	ONLY if ordered by provider (see prn orders)	None	Increase by 3 units/kg/hr	6 hours
0.2 – 0.29 Notify provider for 2 consecutive Anti-Xa < 0.3	ONLY if ordered by provider (see prn orders)	None	Increase by 2 units/kg/hr	6 hours
<b>0.3 – 0.7</b>	<b>None</b>	<b>None</b>	<b>NO CHANGE</b>	<b>6 hours (after 2 consecutive Anti-Xa in range, check Anti-Xa qAM)</b>
0.71 – 0.8	None	None	Decrease by 1 units/kg/hr	6 hours
0.81 – 0.9	None	None	Decrease by 2 units/kg/hr	6 hours
0.91 – 1	None	60 min	Decrease by 3 units/kg/hr	6 hours

**«LOW» Intensity (Anti-Xa Goal: 0.3 - 0.5 units/mL)**

ANTI-Xa LEVEL (units/mL)	RE-BOLUS	INFUSION HOLD TIME	CHANGE INFUSION DOSE (units/kg/hr)	NEXT ANTI-Xa LEVEL
< 0.1 Notify provider for 2 consecutive Anti-Xa < 0.3	ONLY if ordered by provider (see prn orders)	None	Increase by 3 units/kg/hr	6 hours
0.1 – 0.19 Notify provider for 2 consecutive Anti-Xa < 0.3	ONLY if ordered by provider (see prn orders)	None	Increase by 2 units/kg/hr	6 hours
0.2 – 0.29 Notify provider for 2 consecutive Anti-Xa < 0.3	ONLY if ordered by provider (see prn orders)	None	Increase by 1 units/kg/hr	6 hours
<b>0.3 – 0.5</b>	<b>None</b>	<b>None</b>	<b>NO CHANGE</b>	<b>6 hours (after 2 consecutive Anti-Xa in range, check Anti-Xa qAM)</b>
0.51 – 0.6	None	None	Decrease by 1 units/kg/hr	6 hours
0.61 – 0.8	None	30 min	Decrease by 2 units/kg/hr	6 hours
0.81 – 1	None	60 min	Decrease by 3 units/kg/hr	6 hours

**Management of Anti-Xa level > 1 unit/mL**

Anti-Xa Level	CHECK TIMING OF SAMPLE	INSTRUCTIONS
> 1 units/mL <i>(potentially contaminated or improperly timed sample)</i>	If < 6 hours since most recent bolus or rate change	Continue infusion at current rate, and repeat Anti-Xa at the appropriate time.
	If ≥ 6 hours since most recent bolus or rate change	<ol style="list-style-type: none"> <li>TURN OFF HEPARIN INFUSION.</li> <li>Repeat STAT Anti-Xa immediately using peripheral blood draw.</li> <li>If repeat Anti-Xa ≤ 1 units/mL, resume heparin according to heparin algorithm. If repeat Anti-Xa &gt; 1 units/mL, follow steps below</li> </ol>
> 1 units/mL <i>(properly timed, non-contaminated sample)</i>	<ol style="list-style-type: none"> <li>TURN OFF HEPARIN INFUSION, and NOTIFY PROVIDER.</li> <li>Repeat STAT Anti-Xa hourly using peripheral blood draw until Anti-Xa level is ≤ 0.7 units/mL.</li> <li>Then, resume infusion at DECREASED dose that is 4 units/kg/hr lower than previous dose and repeat Anti-Xa in 6 hours.</li> </ol>	

**Restarting heparin after it is turned off for procedure or surgery**

- Confirm with provider that heparin infusion is to be re-started following procedure or surgery
- Confirm with provider the dose and time at which heparin should be re-started (*this should take into account the dose that the patient was receiving prior to procedure or surgery*)
- Confirm with provider the heparin algorithm that the patient should be treated with (goal Anti-Xa 0.1-0.3 units/mL vs 0.3-0.5 units/mL vs 0.3-0.7 units/mL)