



CardiQ Resource Library: Heparin Dosing Nomogram for EP Lab

Heparin/ACT

ACT goal _____

Baseline ACT _____

TIME	HEPARIN DOSE	TOTAL HEPARIN GIVEN

TIME	ACT RESULT

Protamine Dose _____

To calculate dose: Total Heparin given (units) /100 X 0.25 = mg of Protamine to be given

Heparin Dosing Nomogram for EP Lab - Retrograde

Goal ACT 250-300 sec

Baseline ACT	Initial Heparin Bolus
<150 sec	100 units/kg
150-249	70units/kg
250 and >	50units/kg

ACT 150-199 sec
Repeat Heparin Bolus
70units/kg

ACT 200-249 sec
Repeat Heparin Bolus
50units/kg

ACT >249 sec
Repeat Heparin Bolus
25 units/kg every 30-60 minutes to
maintain ACT 250-300 sec.

*Until the ACT has reached therapeutic range, check and ACT 5 minutes after Heparin dose.

- When the ACT has reached the therapeutic range, give the first maintenance dose of Heparin 30 minutes from the previous Heparin dose.
- Check the ACT 10 minutes after the maintenance dose was given.
- Continue to give maintenance doses of Heparin 30 minutes apart and recheck ACT 10 minutes after each Heparin dose.
- If ACT falls outside of the therapeutic range, go back and bolus dosing per the nomogram. Give the appropriate Heparin dose and recheck ACT 5 minutes after bolus dose, repeat until ACT is therapeutic.
- Once the ACT is therapeutic again, continue dosing Heparin every 30 minutes, followed by an ACT check 10 minutes after.

Lbs	Kgs	100 units/kg	70 units/kg	50 units/kg	25 units/kg
< 100	< 45	4000	2800	2000	1000
101-121	46-55	5000	3500	2500	1250
122-144	56-65	6000	4200	3000	1500
145-166	66-75	7000	4900	3500	1750
167-188	76-85	8000	5600	4000	2000
189-210	86-95	9000	6300	4500	2250
211-232	96-105	10,000	7000	5000	2500
233-254	106-115	11,000	7700	5500	2750
255-276	116-125	12,000	8400	6000	3000
277-298	126-135	13,000	9100	6500	3250
299-320	136-145	14,000	9800	7000	3500
>320	>145	15,000	10,500	7500	3750

Heparin Dosing Nomogram for EP Lab - Transeptal

Goal ACT 300-350 sec

Baseline ACT	Initial Heparin Bolus
<150 sec	125 units/kg
150-249	85 units/kg
250 and >	50units/kg

ACT 150-249 sec
Repeat Heparin Bolus
70units/kg

ACT 250-299 sec
Repeat Heparin Bolus
50units/kg

ACT >299 sec
Repeat Heparin Bolus
25 units/kg every 30-60 minutes to
maintain ACT 300-350 sec.

*Until the ACT has reached therapeutic range, check and ACT 5 minutes after Heparin dose.

- When the ACT has reached the therapeutic range, give the first maintenance dose of Heparin 30 minutes from the previous Heparin dose.
- Check the ACT 10 minutes after the maintenance dose was given.
- Continue to give maintenance doses of Heparin 30 minutes apart and recheck ACT 10 minutes after each Heparin dose.
- If ACT falls outside of the therapeutic range, go back and bolus dosing per the nomogram. Give the appropriate Heparin dose and recheck ACT 5 minutes after bolus dose, repeat until ACT is therapeutic.
- Once the ACT is therapeutic again, continue dosing Heparin every 30 minutes, followed by and ACT check 10 minutes after.

Lbs	Kgs	125 units/kg	85 units/kg	70 units/kg	50 units/kg	25 units/kg
< 100	< 45	5000	3400	2800	2000	1000
101-121	46-55	6250	4250	3500	2500	1250
122-144	56-65	7500	5100	4200	3000	1500
145-166	66-75	8750	6000	4900	3500	1750
167-188	76-85	10,000	6800	5600	4000	2000
189-210	86-95	11,250	7650	6300	4500	2250
211-232	96-105	12,500	8500	7000	5000	2500
233-254	106-115	13,750	9350	7700	5500	2750
255-276	116-125	15,000	10,200	8400	6000	3000
277-298	126-135	16,250	11,050	9100	6500	3250
299-320	136-145	17,500	11,900	9800	7000	3500
>320	>145	18,750	12,750	10,500	7500	3750