

(Patient Identification)

Intravenous Low Intensity Heparin Nomogram: Cardiology and Vascular Interventional Procedures & Ischemic Stroke

CARDIOLOGY & VASCULAR PROCEDURES INCLUDE: Atrial Fibrillation, Acute Myocardial Infarction, Unstable Angina, S/P Pacemaker/AICD Insertion, Acute Thrombosis of Peripheral Arteries and Grafts

- PT, PTT, CBC & other baseline labs per MD/LIP order prior to initiation of therapy. Baseline labs such as PTT should not be used for infusion rate adjustments per nomogram.
- PTT 6 hours after Heparin is instituted, then per nomogram until PTT is in target range
- PTT daily once PTT is in target range (for duration of Heparin infusion)
- CBC every other day while on Heparin

•	Pt body weight: per MD/LIP:	kg (use initia	total body weight	throughout	Heparin	therapy
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RN Signature:	Date:	Time:	

INITIAL BOLUS: Per MD/LIP order. Heparin bolus IV Push x1, followed by initial infusion

Usual Bolus Dose	Maximum Initial Bolus	No Initial Bolus Indications
70 units/kg rounded to the nearest 50 units	5,000 units	A bolus should not be ordered for pacer/AICD insertion, acute thrombosis of arteries and grafts or ischemic stroke. If a bolus is ordered with pacer/AICD, call MD/LIP to verify before administration.

<u>INITIAL INFUSION:</u> Per MD/LIP order. Heparin 25,000 units/500 ml D5W (= 50 units/ml)

Indication	Usual Starting Dose	Maximum Initial Rate	Comments
Ischemic Stroke	10 units/kg/hr	NO maximum initial rate	
Cardiac and	12 units/kg/hr	1,000 units/hr	Once therapy is initiated, subsequent
Vascular		(20mL/hr)	dose may exceed maximum initial rate,
Indications			as needed to reach therapeutic PTT

NOMOGRAM RATE ADJUSTMENT: LOW INTENSITY HEPARIN with Goal PTT: 50-70 secs PRN boluses per nomogram below require an MD/LIP order.

*Round PTT to the nearest whole number (If < 0.5 round down, if ≥ 0.5 round up)

PTT (in secs)*	Bolus Ischemic Stroke	Bolus CV/Vascular	Stop Infusion	Rate of Infusion	Check PTT
≤ 30 secs	0	2000 units	0 min	Increase by 3 units/kg/hr	6 hrs
31 – 39 secs	0	1000 units	0 min	Increase by 2 units/kg/hr	6 hrs
40 – 49 secs	0	0	0 min	Increase by 1 unit/kg/hr	6 hrs
50 – 70 secs (goal)	0	0 0 min No Change		No Change	Next AM
71 – 85 secs	0	0	0 min	Decrease by 1 unit/kg/hr	6 hrs
86 – 100 secs	0	0	0 min	Decrease by 2 units/kg/hr	6 hrs
> 100 secs	0	0	60 min	Decrease by 3 units/kg/hr	6 hrs after restarted

RN to document bolus doses / rate changes in MAK / MAR per Medications: Double Check policy (Nursing Practice Manual).

Formula to calculate Heparin Infusion Rate: Total Units (in IV bag) = Units/hour (per patient's weight above)

Total Volume (ml) X (ml/hour)