

Heparin Protocol for Impella Patients [2332]

Nursing

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[X] Weigh patient	STAT, Once For 1 Occurrences Weigh patient if baseline measured weight not in medical record. Notify pharmacist if patient cannot be weighed.
[X] Notify pharmacist (Impella)	Routine, Until discontinued, Starting S, -Notify pharmacist if a physician writes heparin orders. Heparin dose or infusion changes to be made by pharmacist only. -Notify pharmacist if compatibility with other IV drugs or if IV access is a concern. -Notify pharmacist IMMEDIATELY if the patient transfers or has an off unit procedure. -Notify pharmacist IMMEDIATELY if heparin infusion is stopped for any reason. -Notify pharmacist if patient cannot be weighed.
[X] Notify pharmacist and physician (Impella)	Routine, Until discontinued, Starting S, -Notify pharmacist and physician if Platelet count less than 150,000 microliter or a 50% drop from baseline or hematoma, bleeding or suspected bleeding occurs.
[X] Heparin instructions (Impella)	Routine, Until discontinued, Starting S -Document: Hourly purge flow rates, purge heparin concentration, and purge dextrose concentration. -Do not interrupt heparin infusion unless ordered. -Notify pharmacist regarding compatibility with other IV drugs if access is a concern. -Notify pharmacist immediately if heparin infusion is stopped for any reason.

Medications

Impella Device Purge Heparin (Single Response)

Initiation:		
Standard Purge: HEParin 25,000 units/500mL in D5W		
Low aPTT	Therapeutic aPTT	High PTT
ADD Supplemental Non-Purge: HEParin 25,000 unit/500mL	No change continue monitoring	CHANGE to Alternate Purge: HEParin 12,500 units/500mL in D5W
Repeat aPTT Result		
Low aPTT	Therapeutic aPTT	High aPTT
ADD Supplemental Non-Purge: HEParin 25,000 unit/500mL in D5W*		No change continue monitoring
		CHANGE to Alternate Purge: Heparin 12,500 units/500mL D20W

*Consider switching to Standard Purge HEParin 25,000 units/500mL D5W if

- Total heparin dose (Supplemental PLUS Purge) is more than double Alternate Purge: HEParin 12,500 units/500mL D5W dose
 - Example: Supplemental Non-Purge: HEParin 25,000 unit/500mL in D5W at 550 units/hr + Alternate Purge: HEParin 12,500 units/500mL in D5W at 350 units/hr = 900 units/hr
- Dosing has been stable for approximately 24 hours

(X) Standard Purge: HEParin 25,000 unit/500 mL in D5W	Impella, continuous -Rate is automatically adjusted by Impella Device to maintain adequate purge pressure. -Document: Hourly purge flow rates, purge heparin concentration, and purge dextrose concentration. -Do not interrupt heparin infusion unless ordered. -Notify pharmacist immediately if heparin infusion is stopped for any reason.
() ALTERNATE Purge: HEParin 12,500 unit/500 mL in D5W	12,500 Units, Impella, continuous -Rate is automatically adjusted by Impella Device to maintain adequate purge pressure. -Document: Hourly purge flow rates, purge heparin concentration, and purge dextrose concentration. -Do not interrupt heparin infusion unless ordered. -Notify pharmacist immediately if heparin infusion is stopped for any reason.

() ALTERNATE Purge: HEParin 12,500 unit/500 mL in D20W	12,500 Units, Impella, continuous -Rate is automatically adjusted by Impella Device to maintain adequate purge pressure. -Document: Hourly purge flow rates, purge heparin concentration, and purge dextrose concentration. -Do not interrupt heparin infusion unless ordered. -Notify pharmacist immediately if heparin infusion is stopped for any reason.
() Off-Protocol Purge Option (Single Response)	
() Off-Protocol Option - ALTERNATE Purge: HEParin 25,000 unit/500 mL in D20W	25,000 Units, Impella, continuous -Rate is automatically adjusted by Impella Device to maintain adequate purge pressure. -Document: Hourly purge flow rates, purge heparin concentration, and purge dextrose concentration. -Do not interrupt heparin infusion unless ordered. -Notify pharmacist immediately if heparin infusion is stopped for any reason.
() Off-Protocol Option - ALTERNATE Heparin-free purge - dextrose 5% infusion	1 mL/hr, Impella, continuous -Rate is automatically adjusted by Impella Device to maintain adequate purge pressure. -Document: Hourly purge flow rates and purge dextrose concentration. -Do not interrupt infusion unless ordered.

Supplemental Non-Purge Heparin

[] Supplemental Non-Purge: HEParin 25,000 unit/500 mL (50 unit/mL)	intravenous Begin when PTT sub-therapeutic on Impella Device Purge Heparin alone. Heparin Indication: Impella Therapeutic Monitoring Target: PTT - 60 - 80 sec
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Labs

Labs-Initiation

[] Partial thromboplastin time	STAT For 1 Occurrences Draw blood for PTT/ Anti Xa UFH from arm that does not have heparin infusion. If there is no other access than the heparin line, stop the heparin for 10 minutes, flush the line, aspirate 10 mL of blood to waste, obtain sample, and reflush the line after drawing specimen.
[] Prothrombin time with INR	STAT For 1 Occurrences Do not draw blood from the arm that has heparin infusion. Do not draw from heparin flushed lines.
[] CBC hemogram	STAT For 1 Occurrences Do not draw blood from the arm that has heparin infusion. Do not draw from heparin flushed lines.

Labs-Continuing

[X] CBC hemogram	Daily, Starting S+1 For 3 Occurrences Daily while on heparin. Do not draw blood from the arm that has heparin infusion. Do not draw from heparin flushed lines.
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[X] Partial thromboplastin time

Every 4 hours, Starting H+4 Hours For 1 Occurrences
Draw 4 hours after initiation of heparin infusion. Draw blood for PTT/ Anti Xa UFH from arm that does not have heparin infusion. If there is no other access than the heparin line, stop the heparin for 10 minutes, flush the line, aspirate 10 mL of blood to waste, obtain sample, and reflush the line after drawing specimen.

[X] Occult blood, stool

Conditional Frequency, Starting S For 3 Occurrences, Stool guiac stools when there is a hemoglobin decrease of more than 2 gm/dL in a 24 hour period