



Physician Orders ADULT: Neuro Heparin Therapy Protocol Plan

Neuro Heparin Therapy Protocol Phase

Laboratory

- PTT
STAT, T;N, once, Type: Blood
Comments: To be used for Baseline-Heparin VTE Protocol
- CBC w/o Diff
STAT, T;N, once, Type: Blood
Comments: To be used Baseline - Heparin VTE Protocol
- H&H
Routine, T+1;0400, qam, Type: Blood
- Platelet Count
Routine, T+1;0400, qam, Type: Blood

Consults/Notifications/Referrals

- Notify Physician-Continuing
Notify For: if baseline or subsequent platelet counts fall below 100,000/mm³ or if there is a 50% drop from the baseline platelet count.

Medium Intensity Neuro Heparin Therapy

Nursing Communication

- Nursing Communication
Medium Intensity Neuro Heparin Protocol: DC all other forms of Heparin (enoxaparin, dalteparin, fondaparinux). If on full dose anticoagulation-delay Heparin bolus/infusion for 12 hrs after last dose. If on prophylactic Heparin doses, no delay necessary.
- Nursing Communication
Medium Intensity Neuro Heparin Protocol: Place order for aPTT Medium Intensity Neuro Heparin six hours after starting infusion (order as Time Study priority).
- Nursing Communication
Medium Intensity Neuro Heparin Protocol: Titration: place order for additional aPTT Medium Intensity Heparin q6h (Time Study) as indicated.
- Nursing Communication
Medium Intensity Neuro Heparin Protocol: Change order for aPTT Medium Intensity Heparin to qam after Heparin infusion begun and therapeutic range (PTT 60 - 80 seconds for MEDIUM INTENSITY) achieved.
- Nursing Communication
Medium Intensity Neuro Heparin Protocol: If patient has IM injection orders, call MD for clarification (IM injections not recommended while on Heparin; may vaccinate if aPTT Heparin less than 110 seconds).
- Nursing Communication
Medium Intensity Neuro Heparin Protocol: Do not interrupt Heparin Infusion to collect labs or collect from Heparin infusion IV line or distally from Heparin infusion line. Start second IV line access (INT) for blood draws if necessary.

Continuous Infusion

MEDIUM Intensity Neuro Heparin Therapy

- heparin 20,000 units/D5W infusion
20,000 units / 500 mL, IV, NOW, titrate
Comments: Titration: If no bolus dose ordered, disregard comments regarding giving additional bolus and adjust infusion rate only Initiate heparin infusion at 1000 units/hr (25 mL/hr) and then titrate per below to a goal aPTT range of 60 to 80 seconds.
aPTT range: Action:
</= 44.9 sec Give additional 2000 unit bolus, then increase rate by 240 units/hr. (6 mL/hr) and repeat PTT q6 hours
45-59.9 sec Increase rate by 120 units/hr (3mL/hr)and repeat PTT in 6 hrs
60-80 sec Maintain same rate
80.1-100 sec Decrease rate by 120 units/hr (3mL/hr) and repeat PTT in 6 hrs





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> 100 sec *Hold infusion for 1 hour then decrease rate by 240 units/hr (6mL/hr) and continue aPTT q6h after infusion resumed.*

Medications

MEDIUM Intensity Neuro Heparin Therapy

- heparin
2,000 units, Injection, IV Push, once, NOW
Comments: For aPTT goal of 60 - 80 secs ONLY.
- heparin
2,000 units, Injection, IV Push, q6h, PRN Other, specify in Comment, NOW
Comments: PRN for PTT less than or equal to 44.9 secs; For aPTT Goal 60 - 80 sec ONLY.

Laboratory

- aPTT Medium Intensity Neuro Heparin
Time Study, T;N, Type: Blood, Nurse Collect
- aPTT Medium Intensity Neuro Heparin
Time Study, T;N, Type: Blood, Nurse Collect

Low Intensity Neuro Heparin Therapy

Nursing Communication

- Nursing Communication
Low Intensive Neuro Heparin Therapy: DC all other forms of Heparin (enoxaparin, dalteparin, fondaparinux). If on full dose anticoagulation-delay Heparin bolus/infusion for 12 hrs after last dose. If on prophylactic Heparin doses, no delay necessary.
- Nursing Communication
Low Intensive Neuro Heparin Therapy: Place order for aPTT Low Intensity Neuro Heparin six hours after starting infusion (order as Time Study priority).
- Nursing Communication
Low Intensive Neuro Heparin Therapy: Titration: place order for additional aPTT Heparin q6h (Time Study) as indicated.
- Nursing Communication
Low Intensive Neuro Heparin Therapy: Change order for aPTT Low Intensity Neuro Heparin to qam after Heparin infusion begun and therapeutic range (PTT 40-60 seconds for LOW INTENSITY) achieved.
- Nursing Communication
Low Intensive Neuro Heparin Therapy: If patient has IM injection orders, call MD for clarification (IM injections not recommended while on Heparin; may vaccinate if aPTT Heparin less than 110 seconds.
- Nursing Communication
Low Intensive Neuro Heparin Therapy: Do not interrupt Heparin Infusion to collect labs or collect from Heparin infusion IV line or distally from Heparin infusion line. Start second IV line access (INT) for blood draws if necessary.

Continuous Infusion

LOW Intensity Neuro Heparin Therapy

- heparin 20,000 units/D5W infusion
20,000 units / 500 mL, IV, NOW, titrate
Comments: Initiate heparin infusion at 880 units/hr (22 mL/hr) and then titrate per below to a goal aPTT range of 40 to 60 seconds. Do not bolus unless ordered by neurology/neurosurgery/neurocritical care.
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|--------------------|--|
| aPTT range: | Action: |
| <= 24.9 sec | Increase rate by 240 units/hr (6 ml/hr) and repeat PTT q6hrs |
| 25-39.9 sec | Increase rate by 120 units/hr (3mL/hr) and repeat PTT in 6hrs |
| 40-60 sec | Maintain same rate |
| 60.1-75 sec | Decrease rate by 120 units/hr (3mL/hr) and repeat PTT in 6 hrs |
| > 75 sec | Hold infusion for 1 hour then decrease rate by 240 units/hr (6mL/hr) and continue aPTT q6h after infusion resumed. |

Laboratory





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- aPTT Low Intensity Neuro Heparin
Time Study, T;N, Type: Blood, Nurse Collect
- aPTT Low Intensity Neuro Heparin
Time Study, T;N, Type: Blood, Nurse Collect

Date	Time	Physician's Signature	MD Number
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***Report Legend:**

- DEF - This order sentence is the default for the selected order
- GOAL - This component is a goal
- IND - This component is an indicator
- INT - This component is an intervention
- IVS - This component is an IV Set
- NOTE - This component is a note
- Rx - This component is a prescription
- SUB - This component is a sub phase, see separate sheet
- R-Required order

