

Clinical Practice Guideline for Intracranial HTN

| Tier 1 | Tier 2 | Tier 3 |
|---|---|---|
| Low Risk | Evidence of Intracranial HTN or Cerebral Edema | Impending Herniation |
| <p><u>Treatment Guidelines</u></p> <ul style="list-style-type: none"> Maintain Sodium > 135 with Hypertonic Saline 300mL Bolus. Check serum sodium daily. Avoid hypotension (MAP < 65). Maintain euvolemia. | <p><u>Treatment Guidelines</u></p> <ul style="list-style-type: none"> Maintain Sodium ≥ 140 with 3% NaCl 300mL boluses. Check serum sodium Q 8 hrs. If greater than two boluses of 3% NaCl is required within a 24 hr period <u>and</u> Na < 140, start fludrocortisone 0.1 mg PO daily (rule out SIADH first). Maintain ICP < 20 and CPP > 60 if ICP monitor is present. Permissive Hyponatremia up to 155 is acceptable when using hypertonic saline. If ICP > 20 after above interventions, initiate sedation with fentanyl and propofol (and notify NSG). | <p><u>Treatment Guidelines</u></p> <ul style="list-style-type: none"> Notify NSG, STICU/NSICU attending immediately. Administer 3% NaCl 500mL bolus STAT. Hyperventilate up to 5 minutes. Consider IV mannitol 1g/kg (maximum dose of 100g) if refractory to above measures. <p><u>Goal:</u> Reduce ICP quickly as a bridge toward emergent craniectomy.</p> <p>** 23.4% NaCl is not included in this protocol because it is not immediately available but can be considered as an option in patients with central venous access.</p> |
| <p><u>Acute Neurological Change (non-herniation)</u></p> <ul style="list-style-type: none"> 3% NaCl 300mL Bolus immediately (only if serum Na < 155) Notify Neurology/Neurosurgery and attending for STICU/NSICU Obtain stat CT head | | |
| <p><u>Standard Practices for All Tiers</u></p> <ul style="list-style-type: none"> Maintain Head of Bed > 45° (or reverse Trendelenburg) Target PCO₂ 35 | | |