HUP NeuroICU algorithm for the use of $3\%$ NaCl in the management of intracranial hypertension

**ICP $\geq 20$ AND $5\%$ NaCl ineffective (see protocol)**

- **Not eligible for HTS. Call HO.**
- **Contraindications to HTS? (see checklist)**

**Obtain STAT Na$^+$**

- **Is Na$^+$ $< 160$ mEq/L**
  - **Not eligible for HTS. Call HO.**
  - **Yes**
    - **Start Continuous IV infusion $3\%$ NaCl per MD orders.**
      - **Check Na$^+$ every 2 hrs and adjust infusion rate per sliding scale.**

### Serum Na$^+$ | ICP | $3\%$ NaCl Rate
---|---|---
$<140$ | $>20$ | Increase rate by 20ml/hr not to exceed 100ml/hr.
| $<20$ | Continue current rate
| $141-150$ | $>20$ | Increase rate by 10ml/hr not to exceed 100ml/hr.
| $<20$ | Continue current rate
| $151-160$ | $>20$ | Increase rate by 5ml/hr not to exceed 100ml/hr.
| $<20$ | Continue current rate
| $>160$ | | Stop infusion; recheck serum Na$^+$ in 2 hrs. Call MD.

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