

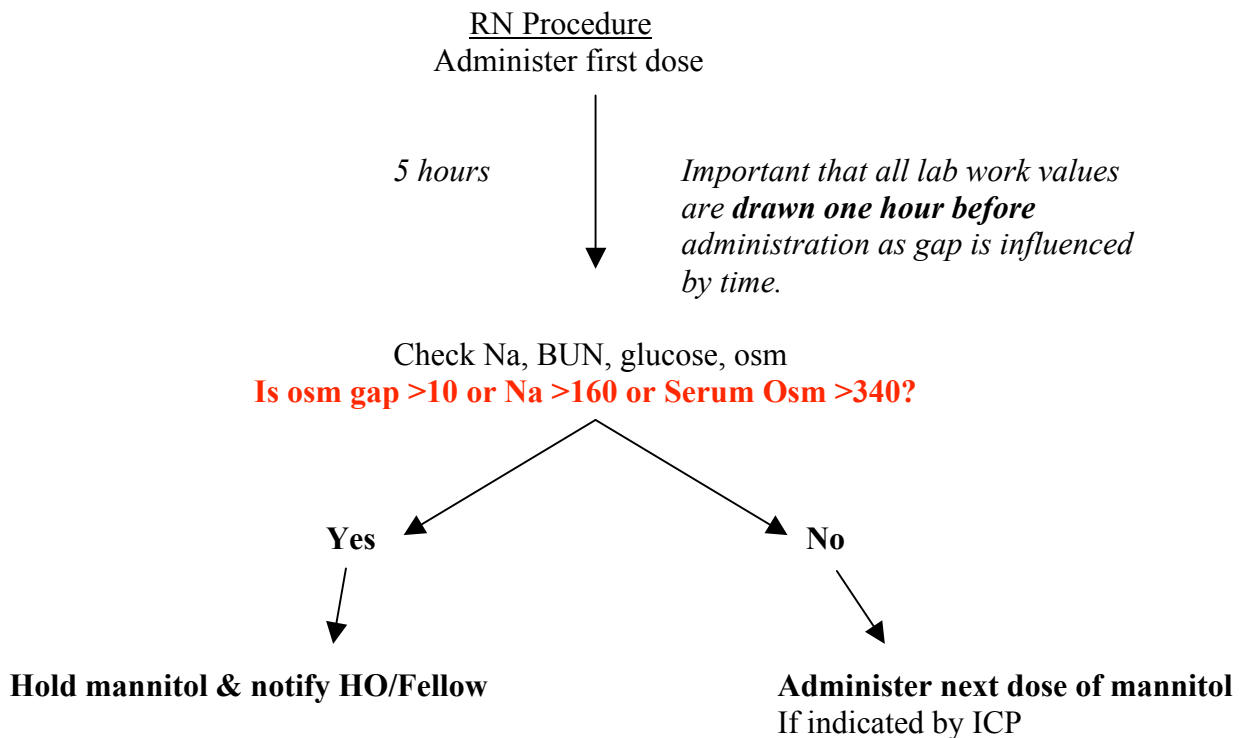
Massachusetts General Hospital

Neuro ICU Mannitol Guideline for Mannitol Rx of Increased ICP

• MD order for patient with ICP monitoring: Mannitol 1g/kg q6 hours p.r.n. ICP \geq XX. Hold for osm gap >10 or Na >160 or osm >340 and call HO/fellow.

• MD order for patient without ICP monitoring : Mannitol 1g/kg. q6 hours. Hold for osm gap >10 or Na >160 or osm >340 and call HO/fellow

- Check Na, BUN, Cr, glu, osm q6 hours.
- Must be drawn one hour prior to any mannitol dosing
- Calculate osm gap with each draw



Important points:

- Osm gap = measured osm - calculated osm.
- Calculated osm = $2(\text{Na}) + \text{BUN}/2.8 + \text{Glu}/18$
- If osm gap is less than zero, this may be due to minor variation in lab values or miscalculation. Mannitol may be given if calculation is correct.
- MD may order 23.4% saline or 3% NaCl in the presence of a gap
- Unexpected gaps may be caused by alcohol or propylene glycol carrier (lorazepam, diazepam, midazolam, pentobarbital or phenobarbital)