

SUSPECTED TRAUMATIC BRAIN INJURY (TBI) ADULT

1. Monitor all patients with continuous Pulse Oximetry.
 - ▶ *Provide supplemental oxygen via nasal canula at 6 L/min flow rate or high flow oxygen by face mask and maintain P.O. > 90%.*
 - If unable to maintain P.O. > 90% with oxygen alone, reposition airway as appropriate (consider c-spine precautions). If P.O. now > 90%, continue monitoring.
 - If P.O. still < 90%, deliver positive pressure ventilation with bag-valve-mask in conjunction with airway adjuncts. If P.O. now > 90%, continue monitoring.
 - If P.O. still < 90%, place a supraglottic airway or endotracheal tube if possible. Continue monitoring.
2. Monitor all patients with continuous End Tidal CO₂.
 - ▶ *Maintain ETCO₂ between 35 and 45 mmHg.*
3. Monitor systolic blood pressure for all patients every 5 minutes.
 - ▶ If blood pressure drops below 100 mmHg, administer 250 mL Normal Saline IV, and continue as a wide open infusion to maintain systolic BP > 100 mmHg.
4. Assess GCS in all patients.
 - ▶ *In patients with a GCS of 8 or less, establish an airway by the most appropriate means available.*
5. Transport to trauma center

SUSPECTED TRAUMATIC BRAIN INJURY (TBI) PEDIATRICS

1. Monitor all patients with continuous Pulse Oximetry.
 - ▶ *Provide supplemental oxygen via nasal canula at 6 L/min flow rate or high flow oxygen by face mask and maintain P.O. > 90%.*
 - If unable to maintain P.O. > 90% with oxygen alone, reposition airway as appropriate (consider c-spine precautions). If P.O. now > 90%, continue monitoring.
 - If P.O. still < 90%, deliver positive pressure ventilation with bag-valve-mask in conjunction with airway adjuncts. If P.O. now > 90%, continue monitoring.
2. Monitor all patients with continuous End Tidal CO₂.
 - ▶ *Maintain ETCO₂ between 35 and 45 mmHg.*
3. Monitor systolic blood pressure for all patients every 5 minutes.

For patients aged 0 – 9 years:

- ▶ *Blood pressure below $70 + (\text{age} \times 2)$ mmHg, administer 20 mL/kg Normal Saline IV/IO, and repeat X 3 as standing order if needed to maintain systolic BP $> 70 + (\text{age} \times 2)$ mmHg.*

For patients aged 10 years and older:

- ▶ *Blood pressure below 90 mmHg, administer 20 mL/kg Normal Saline IV/IO, and repeat X 3 as standing order if needed to maintain systolic BP > 90 mmHg.*
4. Assess GCS in all patients. For patients age ≤ 2 years, use P-GCS.
 5. Transport to Level 1 or Level 2 pediatric trauma center if possible.

DRAFT