

- Exclusion Criteria -

- Clinical, demographic or other characteristic that precludes dx, tx or follow-up:
 - Systemic sepsis at screening
 - SBP < 90 mmHG for two consecutive readings at least 5 min apart prior to randomization
 - SaO₂ < 90% on FiO₂ > 0.5 for two consecutive readings at least 5 min apart prior to randomization
 - PaO₂/FiO₂ ratio < 150
 - Known pre-existing neurologic disease (ex.TBI, stroke, neurodegenerative disorder with confounding neurologic deficits)
 - Known inability to perform ADLs without assistance prior to injury
 - Known active drug/alcohol dependence that would interfere with physiological response to PbtO₂ tx
 - Non-survivable injury
 - Pregnancy
 - Prisoner or ward of state
 - Bilaterally absent pupillary response in the absence of paralytic medication
 - Contraindication to the placement of intracranial monitors, (ex. uncorrectable coagulopathy)
 - Treatment of brain tissue oxygen values prior to randomization (monitor can be placed prior to randomization, but readings must be masked to clinical team)
 - Planned use of devices which may unblind treating physicians to brain tissue hypoxia
 - Presence of “BOOST Trial Declined” on any medical alert tag/bracelet
- Emergency 24-Hour Study Hotline:***
855-4-BOOST3 (855-426-6783)