

Overview Treatment TBI

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Physiology in a Nutshell

- On the surface: clinically, we draw a line at GCS 8. This corresponds, roughly to state of *significantly impaired consciousness*.
- At this level of severity we often confront problems related to ICP, secondary injury, reduced CBF, local and global mass effect, local and global cerebral edema.
- **Pulse Volume Index** of Intracranial Space approximately **30 ml** (~1-3% brain volume).
- **Warm Ischemia Time** for human brain approximatel
- There bulk factors set the spatial and temporal time scales for evolution and management of TBI (severe).

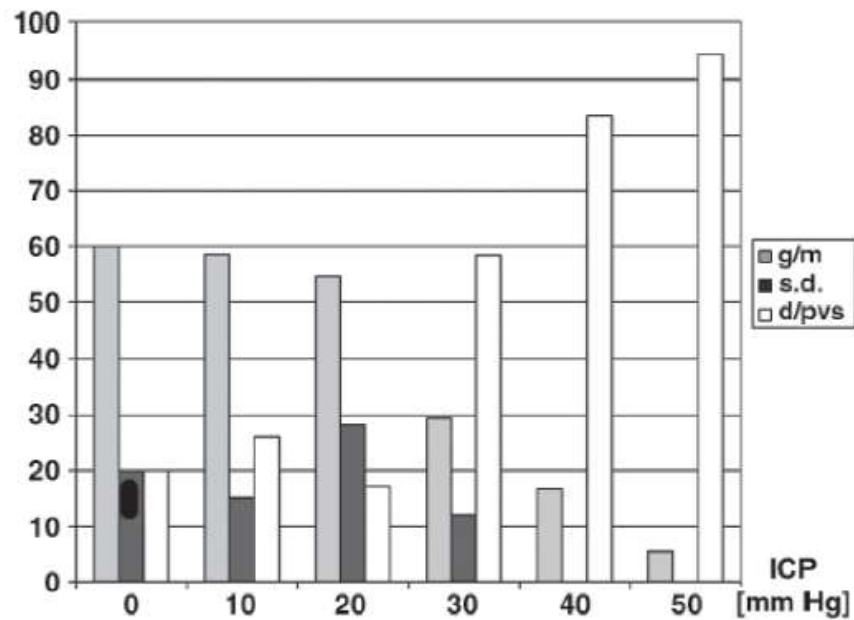


Fig. 1. Mortality and persistent vegetative state (d/pvs) rate, rate of favorable outcome (g/m), and rate of severe disability (s.d.) expressed as a function of ICP.

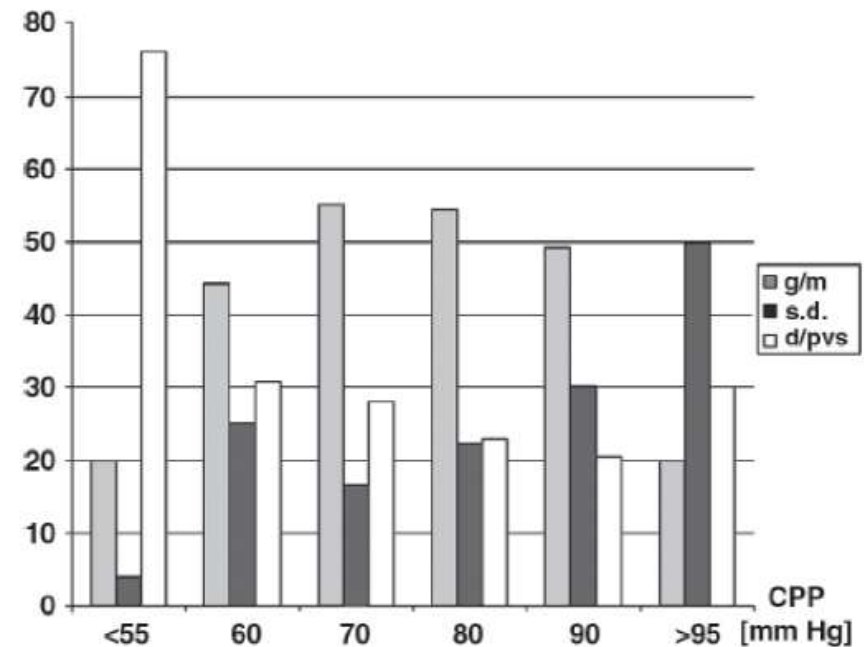
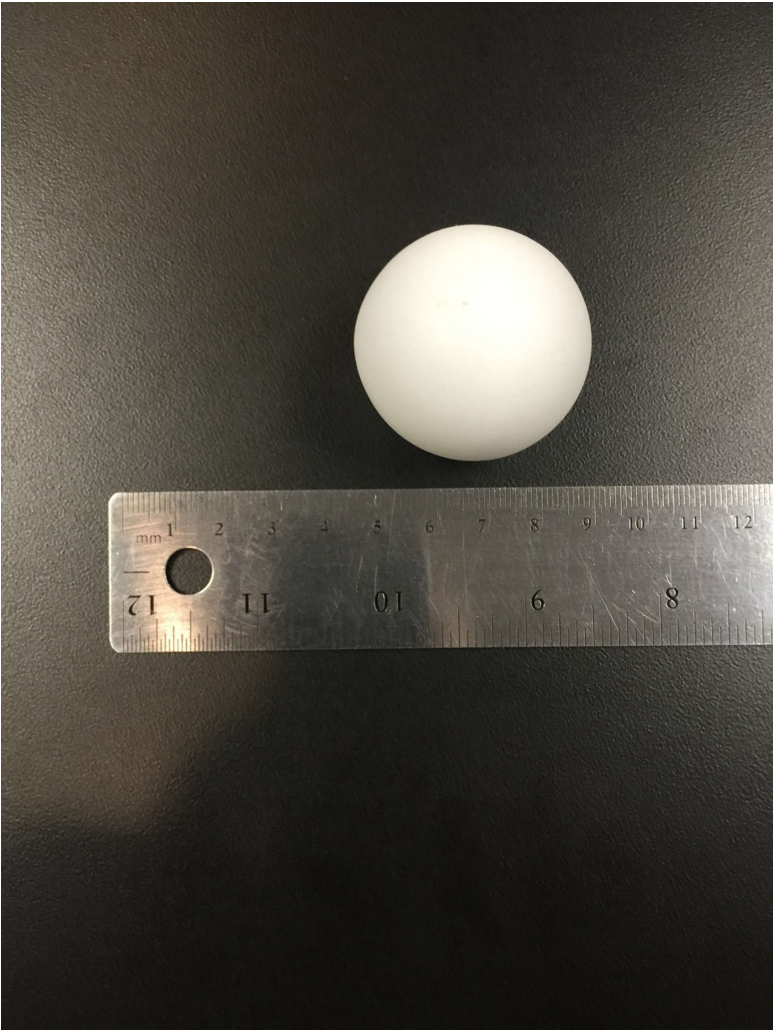
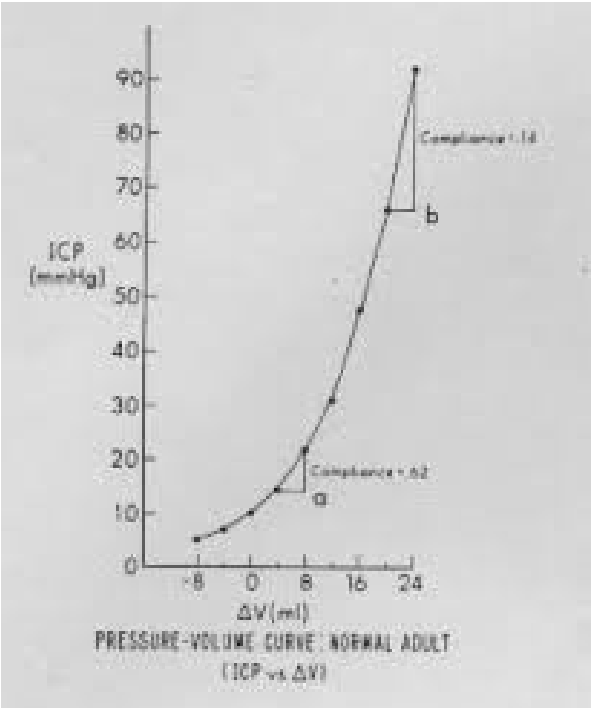
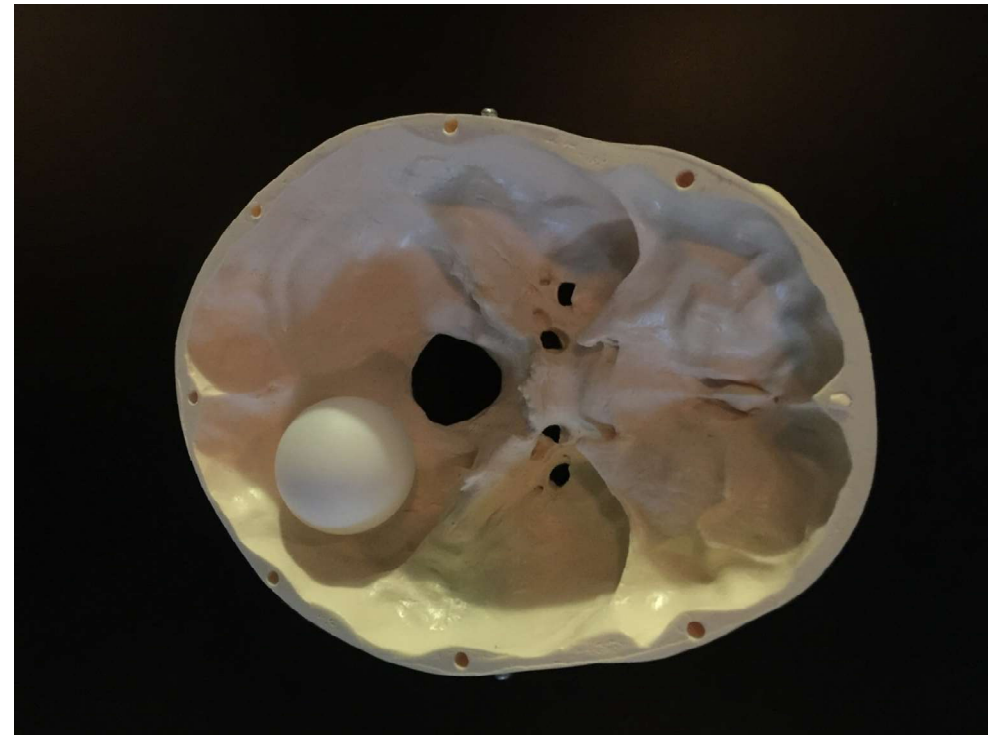
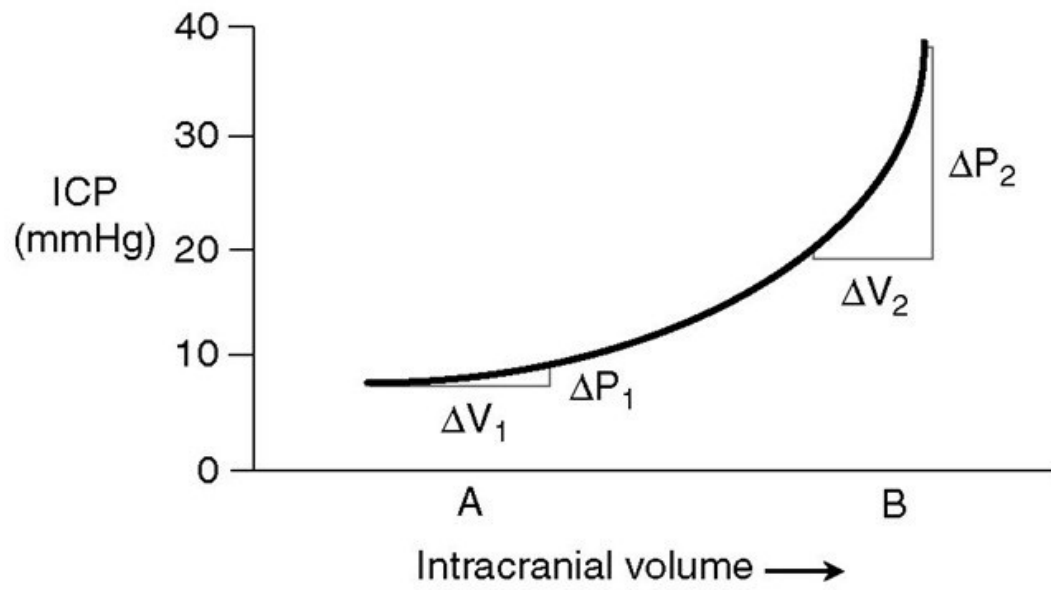
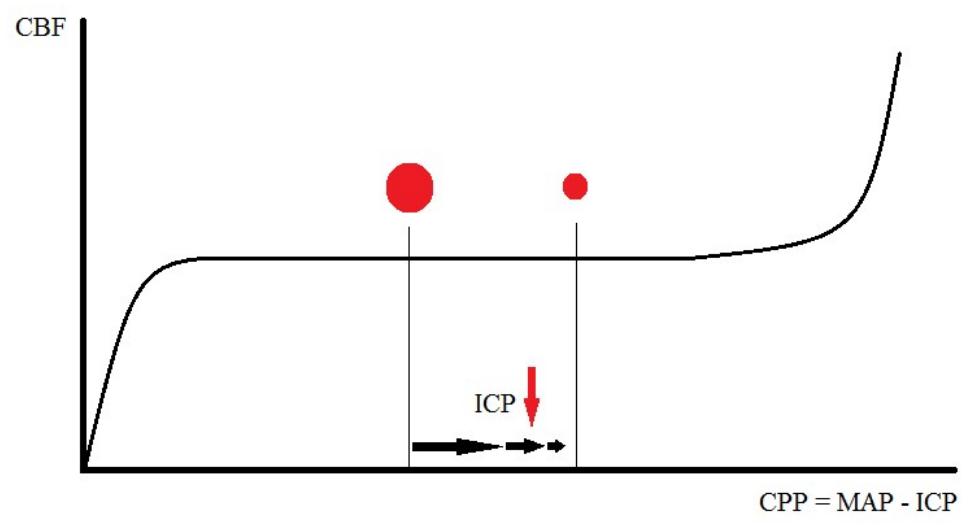
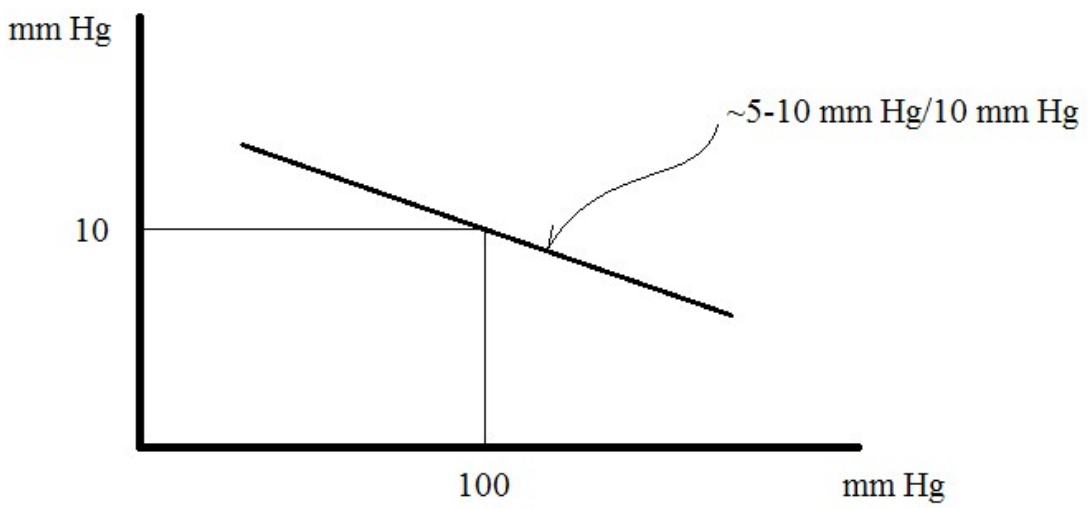
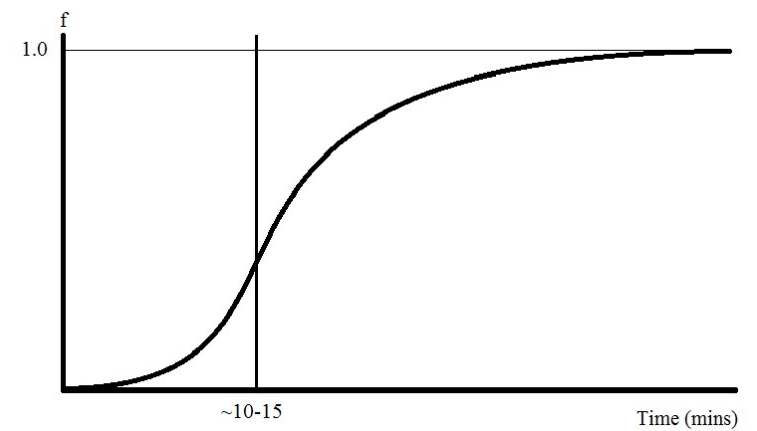
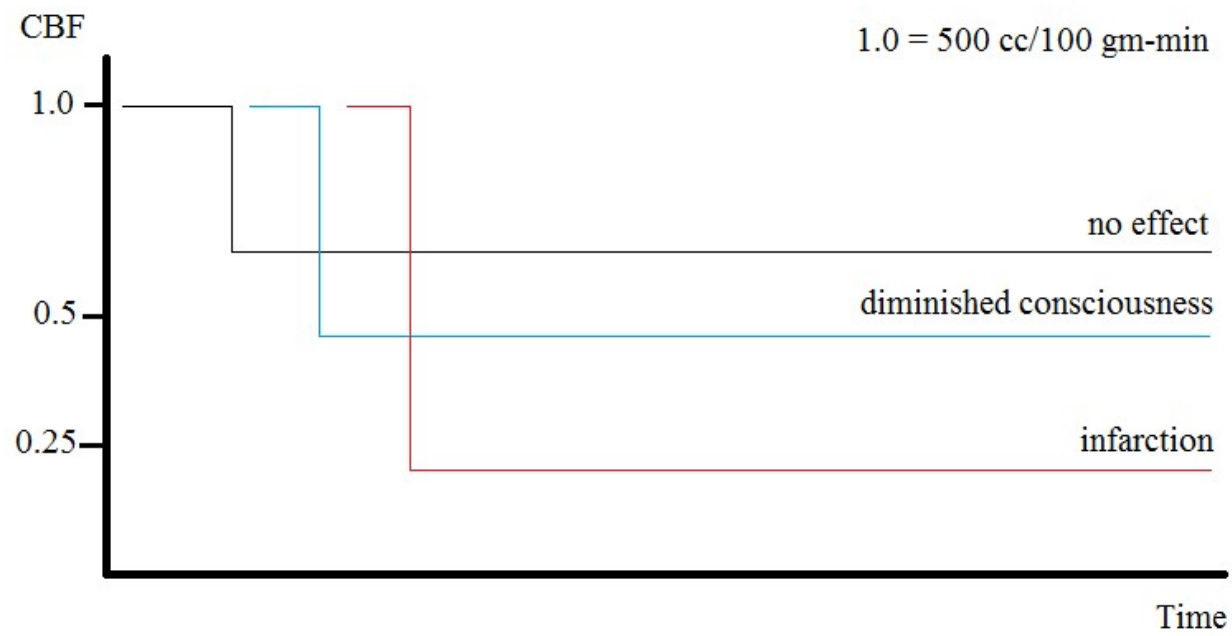


Fig. 2. Mortality and persistent vegetative state (d/pvs) rate, rate of favorable outcome (g/m), and rate of severe disability (s.d.) expressed as a function of CPP.

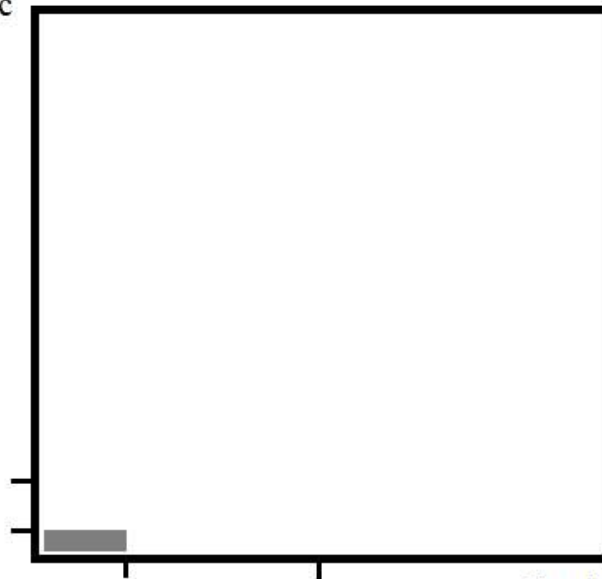








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Guidelines for the Management of Severe Traumatic Brain Injury 4th Edition

https://braintrauma.org/uploads/03/12/Guidelines_for_Management_of_Severe_TBI_4th_Edition.pdf

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