Brain Disorders/Neurological

**The ultimate clinical status and recovery with brain injuries depend upon:**

1. The size and location of the epicenter or core of destruction
2. The surrounding zone of dormant but recoverable neurons fanning out in varying rings from the center core
3. The asymmetry involved
4. The organization and reorganization with plasticity of altered and non-impaired sensory and motor brain functions
5. Meshing of sensory and motor fibers at the brain stem cord junction.

In severe neurologic conditions, where there is no matrix, pressurized oxygen has beneficial effects in that it:

1. restores the integrity of the blood-brain barrier and cell membranes,
2. reduces cerebral edema,
3. reduces intracranial pressure,
4. neutralizes toxic amines,
5. increases neovascularization,
6. acts as a scavenger of free radicals,
7. efficiently elevates diffusional driving force for oxygen thereby increasing tissue oxygen availability,
8. promotes phagocytosis, (thereby internal debridement),
9. stimulates angiogenesis andreactivates idling neurons.

More work in this area is encouraged... 

Philip James MD

**Reference:**


**Legal Disclaimer**

The content and information provided within this site is for informational and educational purposes only. Consult a doctor before pursuing any form of therapy, including Hyperbaric Oxygen Therapy. The Information provided within this site is not to be considered Medical Advice. In Full Support of the F.D.A., Hyperbaric Oxygen Therapy is considered Investigational, Experimental, or Off Label.

Please consult with your Treating Medical Physician