

• **Contraindications to HBO**

- Absolute Contraindication
 - Untreated pneumothorax
- Relative Contraindication
 - Seizure disorder (Not under control)
 - Fever > 102.5 F (39.2 C)
 - Severe Pulmonary Disease
 - Altered Mental Status (unless intubated)
 - Doxorubicin, Bleomycin, Cis-platinum,
 - Disulfiram, Sulfamylon
 - Claustrophobia

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Special Considerations

- Malignancy Concern
 - No stimulation of growth
 - Based on controlled trials conducted as
 - investigated radiosensitizer effect of HBO
 - Additional investigations showed no
 - enhanced growth of the cancers.
 - In fact some showed inhibited growth of
 - tumor.

Complications of HBO

- Confinement Anxiety
- Barotrauma
 - Ear and Sinus squeeze
 - Pneumothorax, gas embolism (very rare)
- O₂ toxicity seizure (3:10000)
- Other
 - Hypoglycemia in diabetic patients
 - Reversible myopia
 - Fire , Pulmonary edema (rare)
 - ROP in premie

HBO Case Considerations

- A mechanical-ventilated child with probable delayed radiation injuries
- Unvented both middle ear cavities
- Probable poor gastric emptying
- Conditions which may be relative contraindications
 - Previous respiratory disease
 - Seizure disorder
 - Previous chemotherapy
 - Suspected recurrent tumor
 - Fever
- Multi-disciplinary team

HBO case management

- Multi-disciplinary team management
- Parents Discussion and Consent form
- Type of Chamber Consideration
 - Monoplace VS Multiplace
- Critical Care Equipments Used in chamber
- Critical Care Check List : Pre-HBO/ Post-HBO
- Physiologic and Hemodynamic Monitoring and Management
- Post-HBO care

HBO Case Management (Cont.)

- Advise myringotomies with pressure equalizing (PE) tubes.
- Advise gastric emptying and decompression while ascending.
- Non-compressible fluid replace the air in any cuff and/or balloon
- Equipment used
- Critical care management in children.
- HBO protocol was set at 2.0 ATA for 90 minutes once a day for 20 sessions.

Equipment Used in Multiplace Chambers

