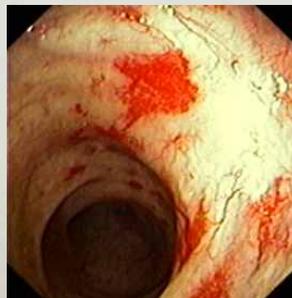


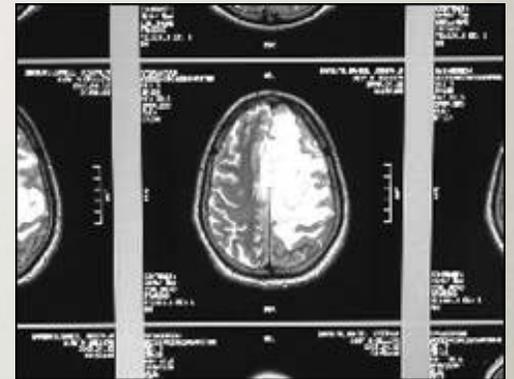
Radionecrosis of Tissues

- Bony radionecrosis
 - Osteoradionecrosis of mandible
- Soft tissue radionecrosis
 - Radiation cystitis
 - Radiation proctitis
 - Neurologic radiation injuries

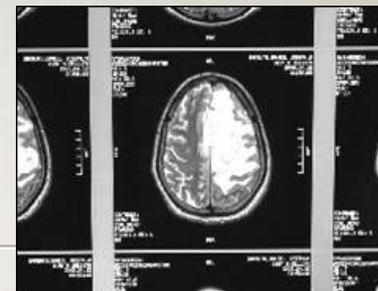


Radiation Injuries of Neural Tissues

- Radiation-Induced Optic Neuropathy
 - Case series favor HBO, No RCT
- Radiation-Induced Brachial Plexopathy
 - 1 RCT failed to support HBO
- Radiation Myelitis
 - Only 1 Case Report favor HBO, No RCT
- Radiation Brain Necrosis
 - Case series favor HBO, 1 small RCT failed to support HBO



Brain Radionecrosis



- 1976, Hart G. first reported treatment of HBOT and observe improvement.
- Chuba et.al. reported all 10 children with improvement at least initially. 5 sustained durable improvement. 4 died from recurrent tumor.
- Dear et.al. reported 9/20 improved with HBO. 1/11 of glioblastoma multiforme improved (and 7/11 died).
- Gesell et.al. reported 17/29 (58%) improved by neurologic exam. 20/20 decreased requirement of steroid.
- PET and MRI spect may help distinction between tumor and necrosis.
- Combination (tumor+necrosis) improved 44/65 (68%)