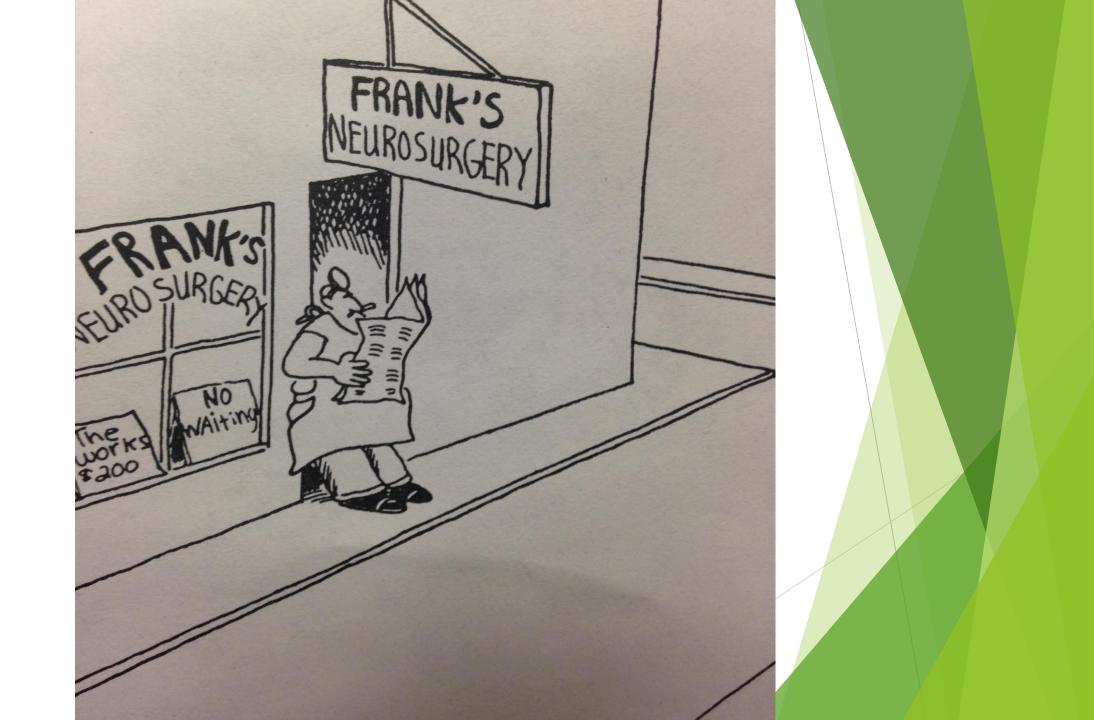
BRAIN TUMORS

How to diagnose and treat Frank Schinco MD



Presenting Symptoms

Symptoms of increased intracranial pressure(ICP)

Headache, Nausea, Vomiting

Focal Neurologic Deficit

Weakness, Sensory Loss, Speech, Vision

Seizures

Focal or Generalized

Location

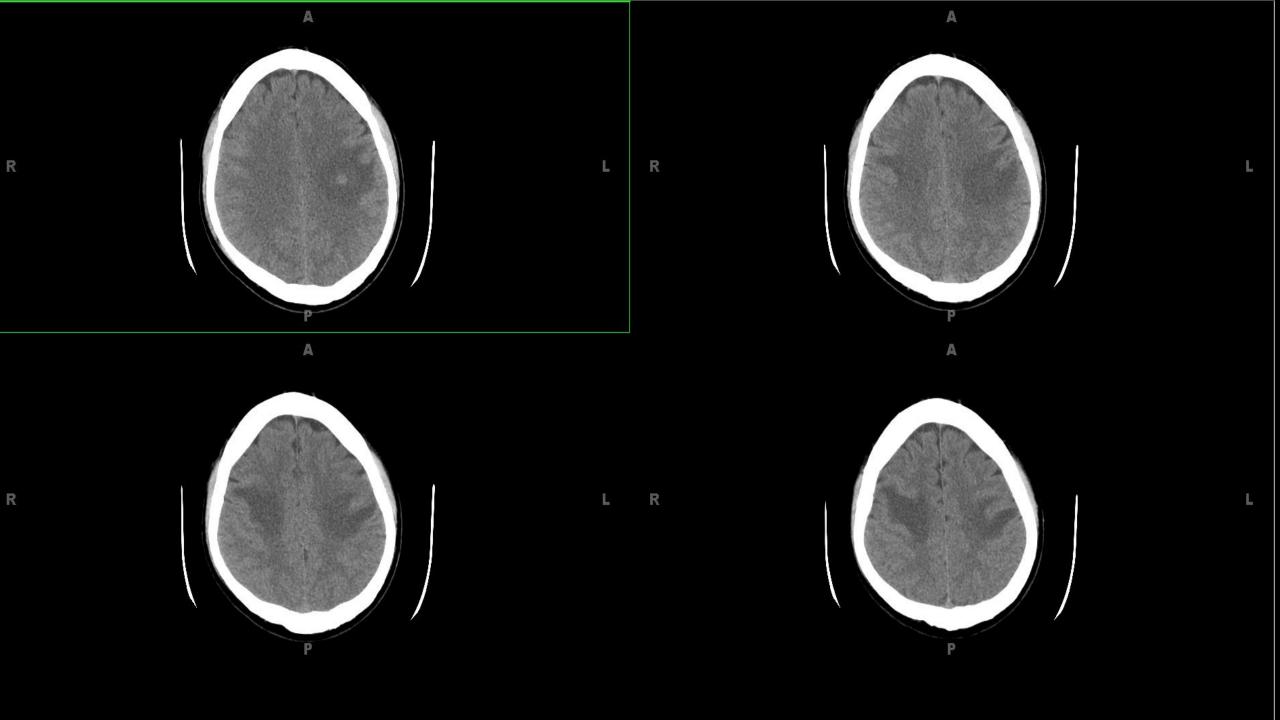
- Supratentorial
 - Cerebral
- ► Infratentorial
 - Cerebellar

Location

- Intraaxial
 - ▶ Glioma
 - Metastasis
- Extraaxial
 - Meningioma
 - Schwanoma

Case

- 50 yo male with several month history of headache.
- Several weeks of right arm weakness and numbness
- Evaluated in Emergency room because of a focal seizure involving the right arm
- CT and MRI done



Metastatic tumors

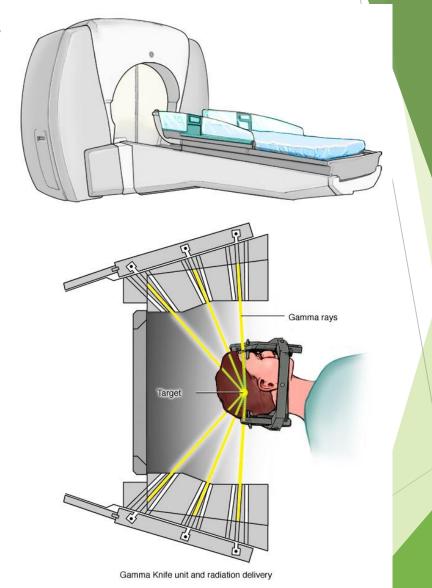
- Lung
- Breast
- Kidney
- Bladder
- ► GI
- ▶ Testicular

Treatment

- Excision—Solitary
 - ▶ Depends on location
- ► Radiation
 - ► Stereotactic

Chemotherapy

Stereotactic Radiosurgery



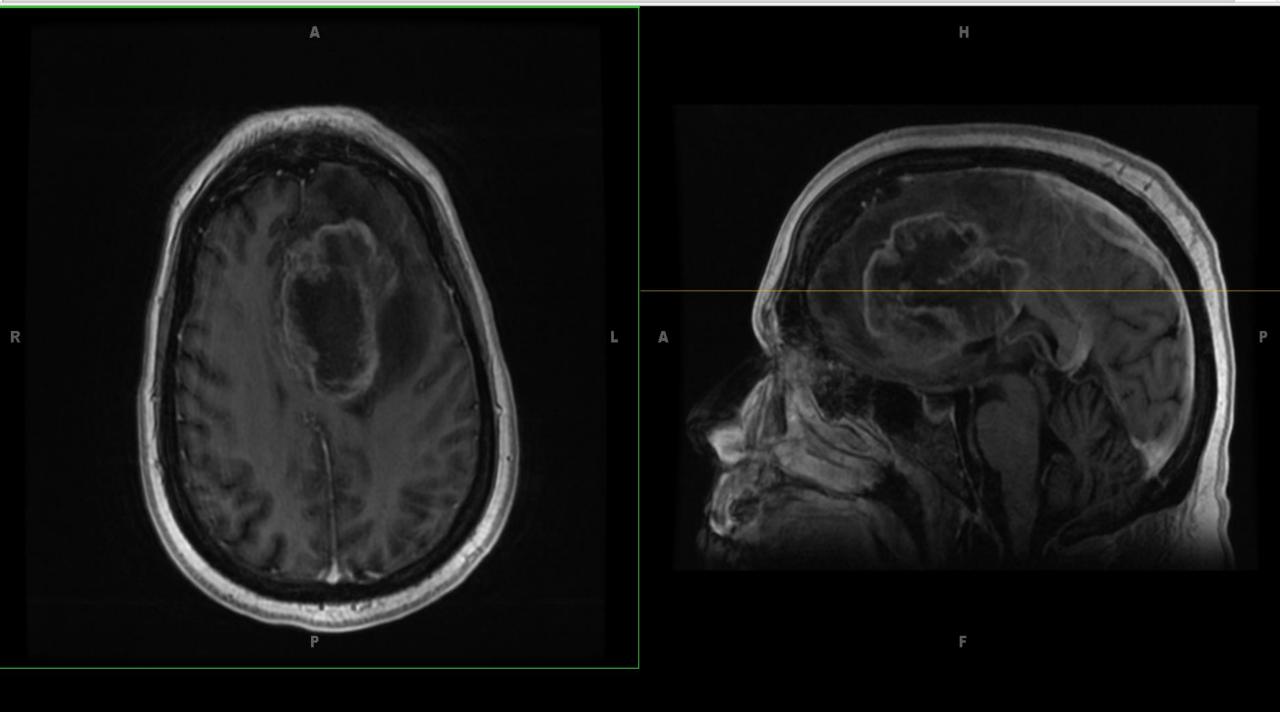
@ MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, ALL RIGHTS RESERVED.

Intraaxial tumor

- ▶ 70 yo female onset of headache several weeks
- Mental Status changes
- Right arm and leg weakness
- CT and MRI done

Malignant Glioma

- Poor Prognosis
 - ▶ 16 months Median Survival
 - Surgical Excision/Biopsy
 - Radiation
 - Chemotherapy
 - ► Oral -- Temodar
 - ► Intratumoral -- Gliadel



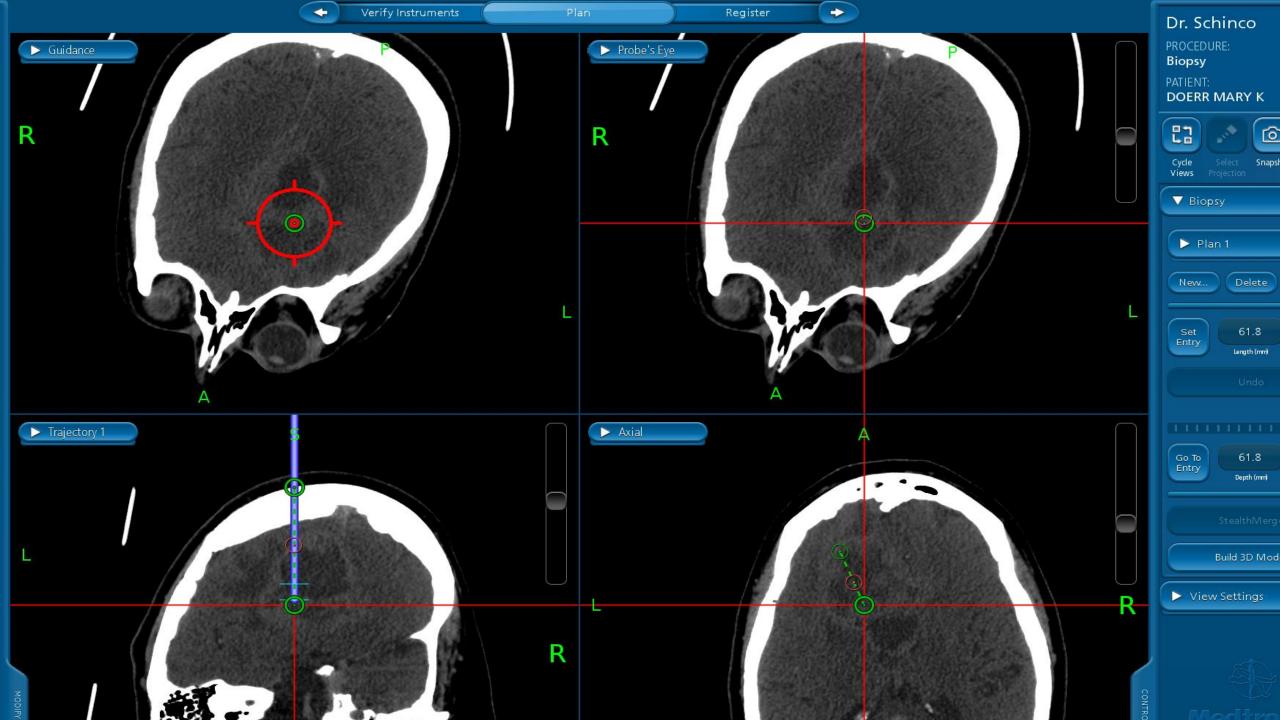


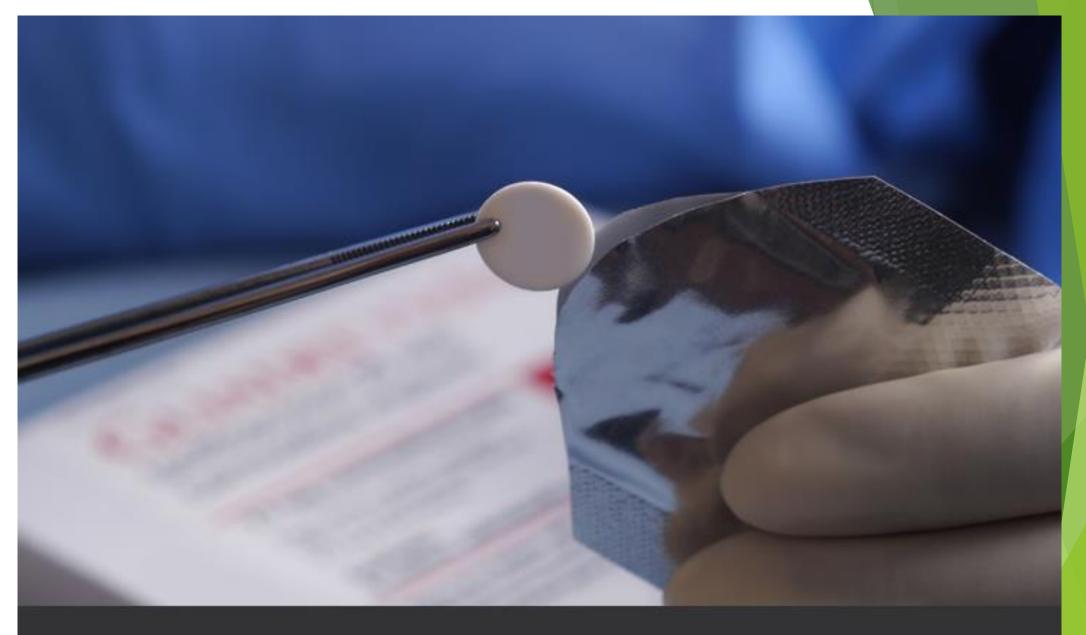




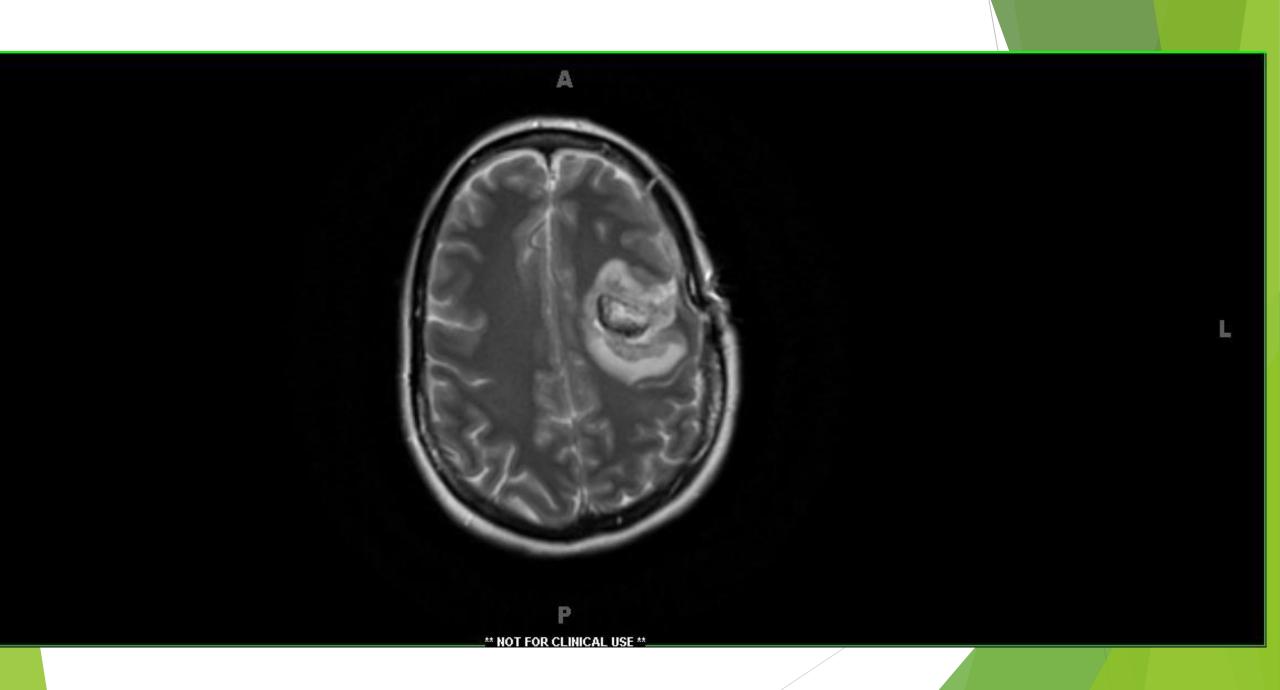




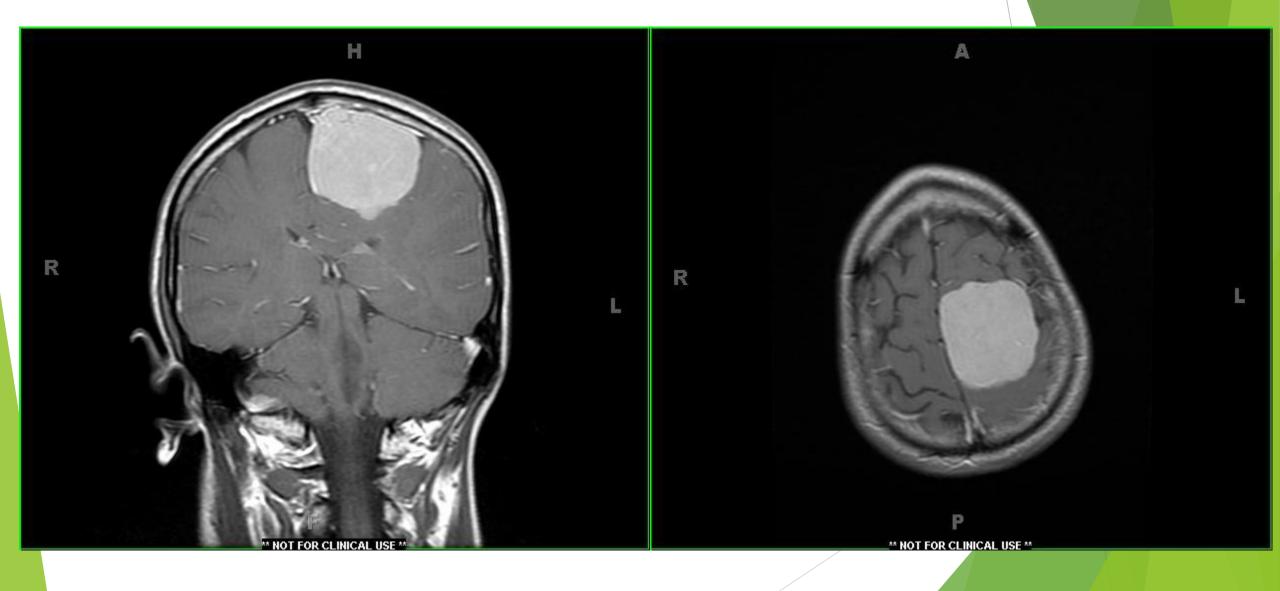




To remove the GLIADEL Wafer, gently grasp the wafer with the aid of forceps and place it onto a designated sterile field.



Extraaxial tumors

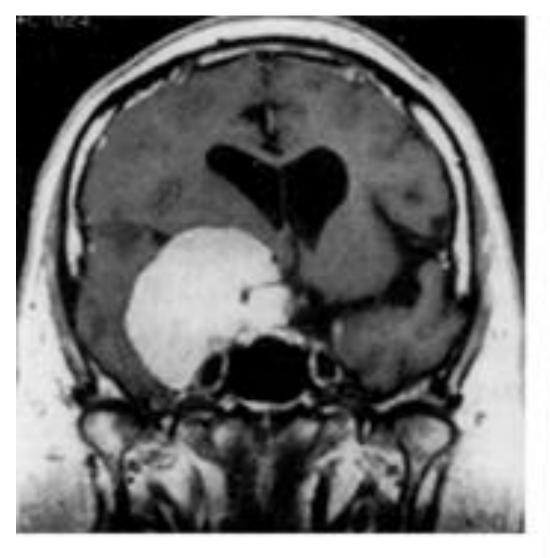


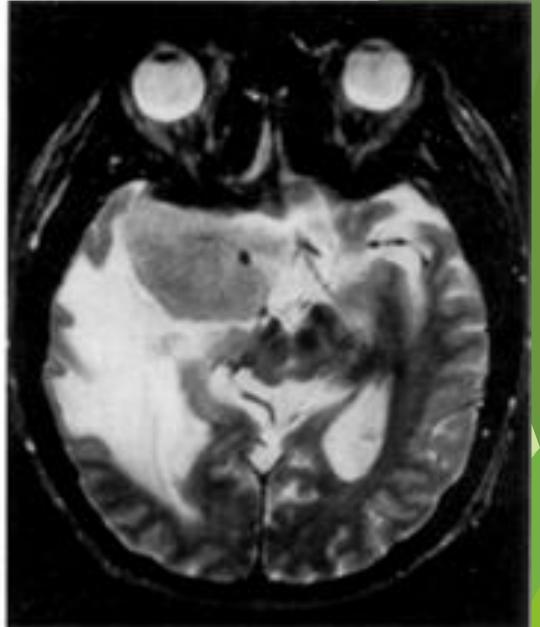
Prognosis (Meningioma)

Surgery if total is Curative

May have neurologic deficit

► May invade Bone and Vessels







"Whoa! That was a good one! Try it, Hobbs — just poke his brain right where my finger is."

Intraoperative Stimulation

Stim cortex and Measure motor function

► Stim peripheral nerve and measure cortex

Awake Craniotomy

