

New standard surveillance imaging suggested by the VHL Family Alliance

• Where are CNS tumors? [per NIH series]

- Posterior fossa (cerebellum and brainstem): 60%

- Spinal cord (cervical): 20%

- Spinal cord (thoracic): 13%

- Spinal cord (lumbar): 7%

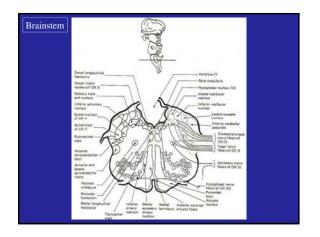
- ELST seen in 11-16% of VHL patients

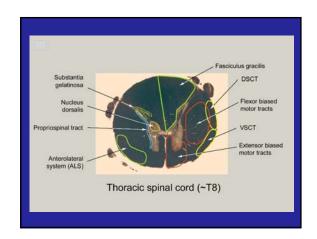
• Recommended surveillance scan:

- "MRI of brain and cervical spine, with thin cuts through posterior fossa, attention to inner ear/petrous temporal bone"..... which detects both ELST and 80% of hemangioblastomas

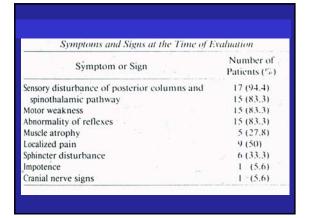
Difficult issue #1:

Locations of these tumors are *quite* sensitive

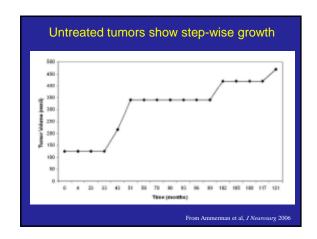


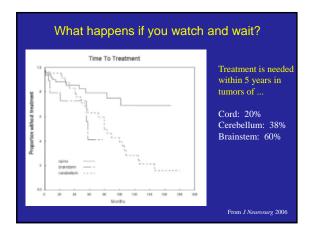






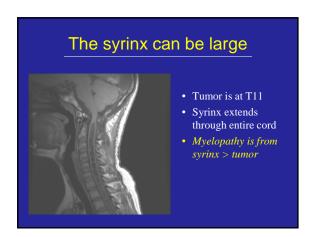
Difficult issue #2: Patient selection Smaller tumors managed conservatively show unpredictable patterns of progression



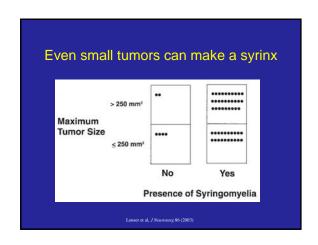


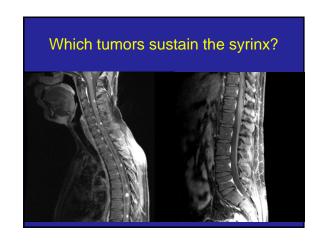
Difficult issue #3:

What is the best management of a tumor-associated syrinx?



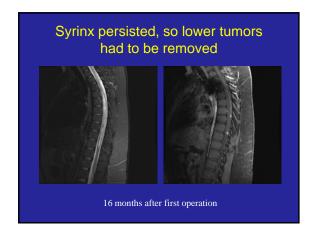


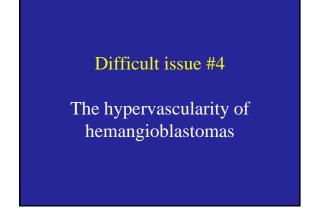






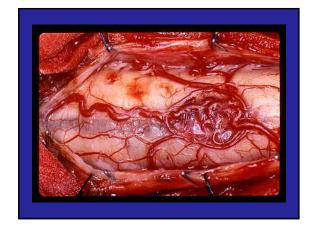




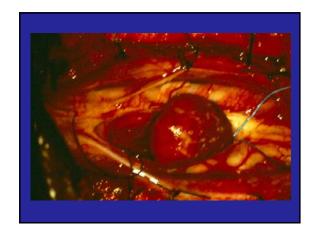








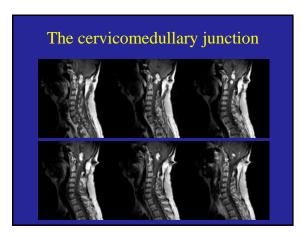


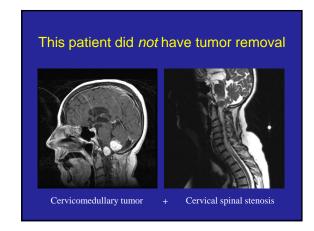




Difficult issue #5

Large, complex tumors in tricky places

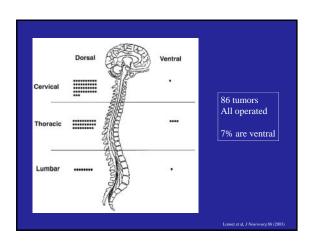


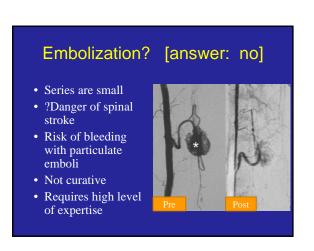






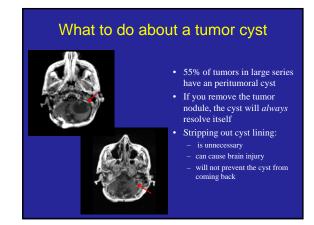






Difficult issue #6

Dealing with a tumorassociated cyst in the brain

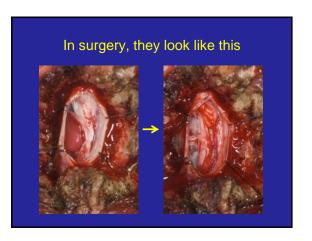


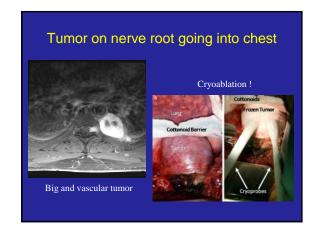
Sometimes a cyst is helpful! Pre-op Pre-op Postop

Difficult issue #7

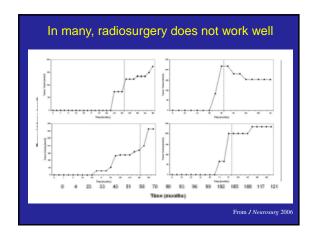
The optimal management of tumors *outside* the cord or brain

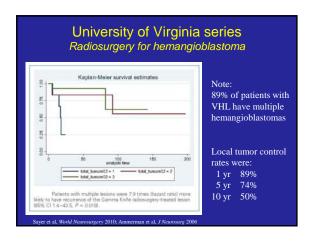






Difficult issue #8 Can radiosurgery replace surgery?



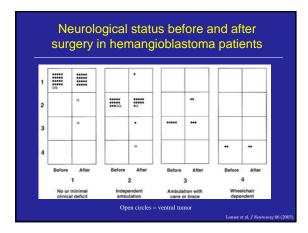


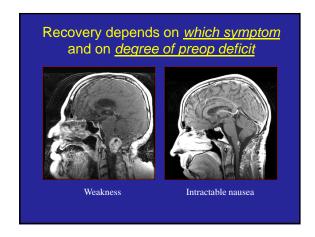
Difficult issue #9

The neurological complications of surgery

Immediate neurological decline after surgery is seen, usually as new sensory dysfunction, but it is not inevitable....

Most maintain their function.





The better the neurological condition of the patient is before surgery, the better the condition will be after surgery.... and the more rapid and complete the recovery.

Therefore, waiting for profound clinical decline is unwise.

