









Five rules of visual fields

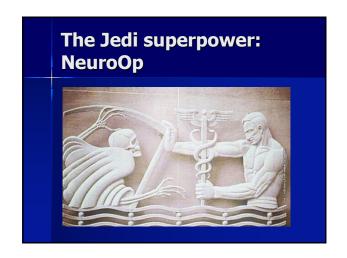
- 1. VF defect in one eye = Ipsilateral (beware junction)
- 2. Bitemporal hemianopsia = chiasm
- 3. Up is up & down is down (except LGN)
- 4. Homonymous hemianopsia (contralateral retrochiasmal, look for RAPD, band atrophy)
- Occipital VF: Congruous = more posterior (incongruous = more anterior), macular sparing, temporal crescent

Five tips to NOT miss the brain tumor field!....

- Always test the visual field in both eyes
- Book fields do NOT look like real world fields (publication bias)
- Unreliable visual field = You have no field (confrontation visual field still useful)
- 4. It can always be a suprasellar lesion
- 5. Patients can have "ticks and fleas" (don't stop just because you found something)



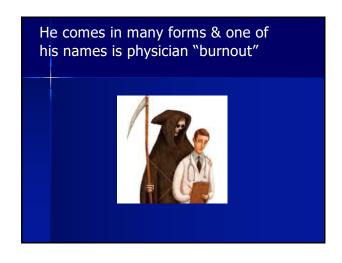


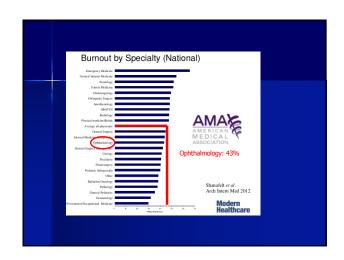




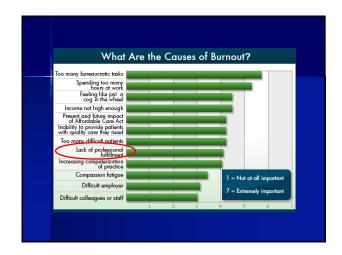


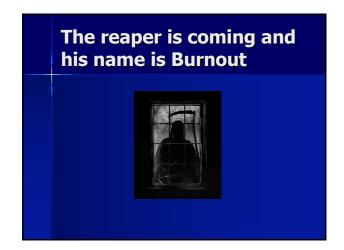




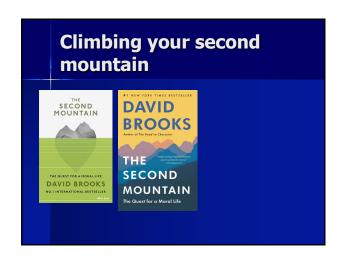


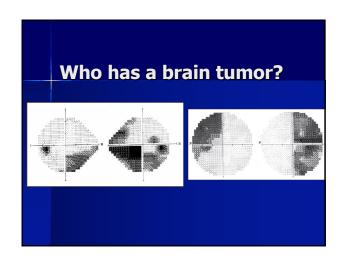


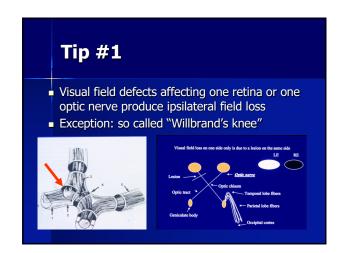


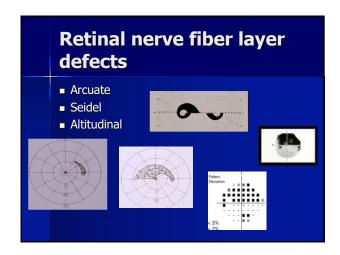


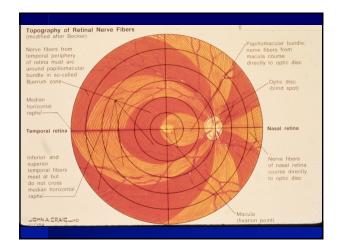


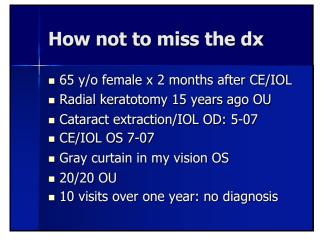


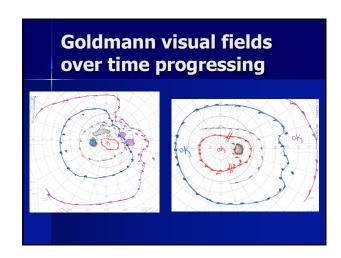


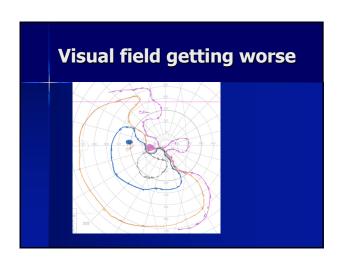


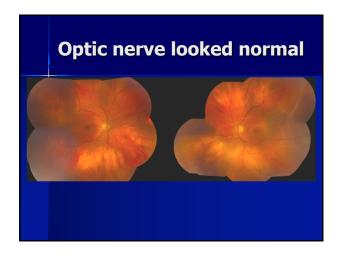






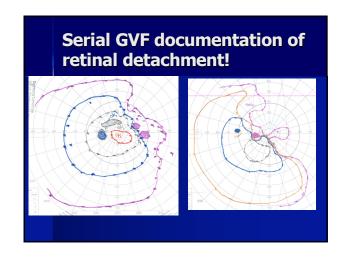


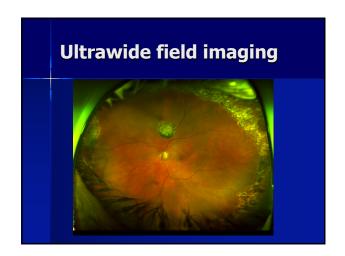


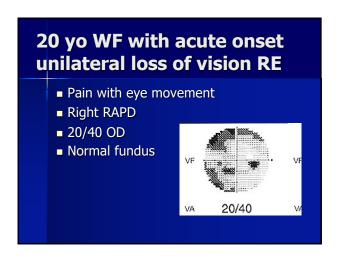












Optic neuritis (retrobulbar) • "The doctor sees nothing, the patient sees nothing."

But what if we change the stem?

- 50 yo WM rather than 20 yo WF
- Acute awareness of visual loss
- Progression
- Bilateral rather than unilateral
- Pale rather than normal optic nerve

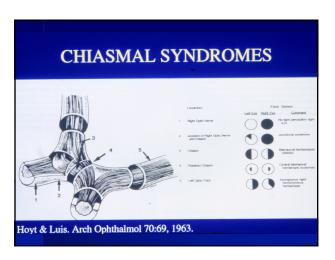
How you could miss the tumor....

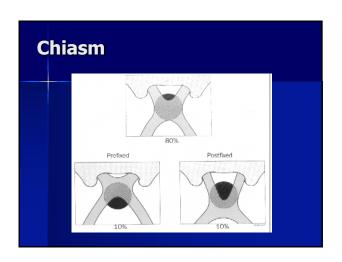
- 25 year old white female
- Acute onset loss of vision OD
- Pain (severe) ? Worse with eye movement
- Hand motions OD
- 20/20 OS
- Right RAPD
- Normal fundus
- Dx = optic neuritis

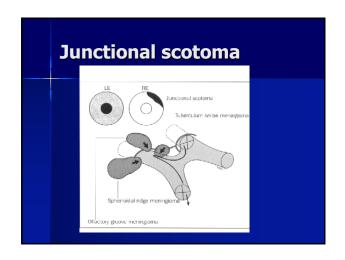


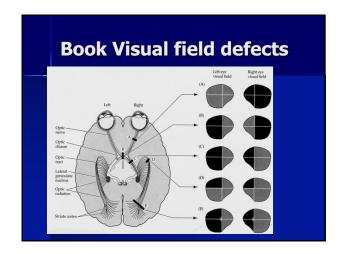
Should be "optic neuritis"

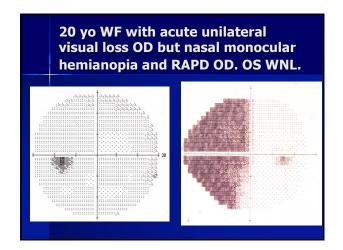
- When should the imaging be done?
- What if it is Friday afternoon?
- Would the triage decision be different if this was the visual field defect in the fellow eye?



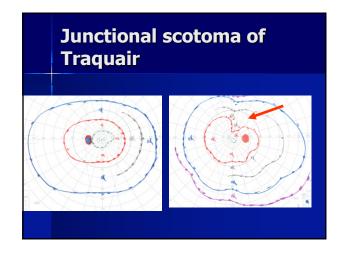


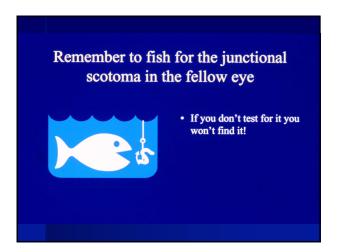


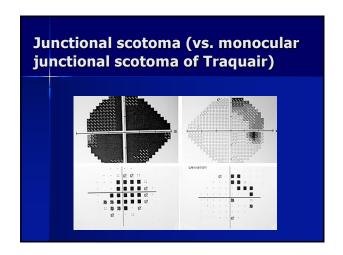


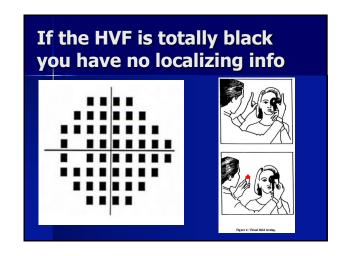


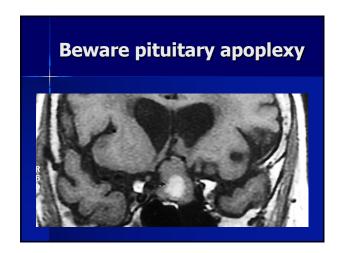


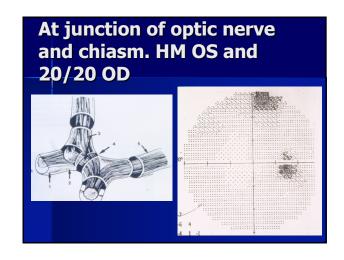


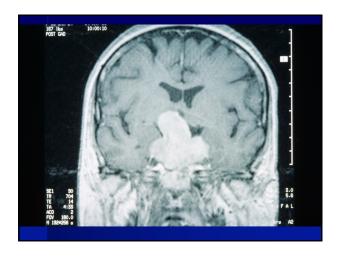


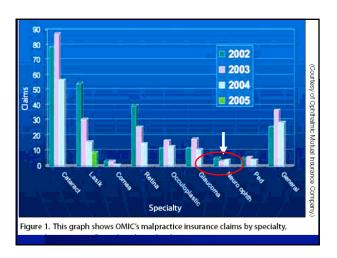




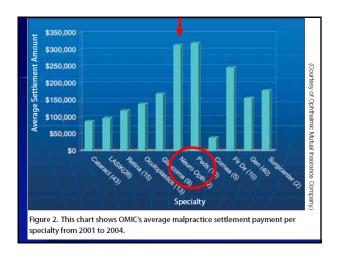


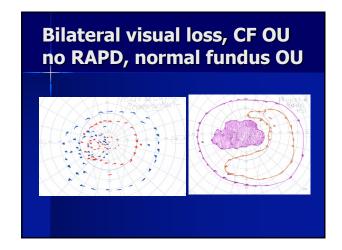


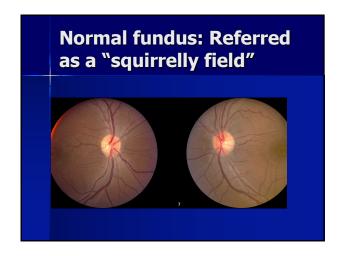


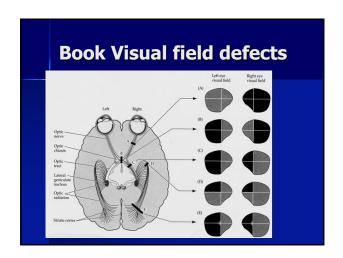


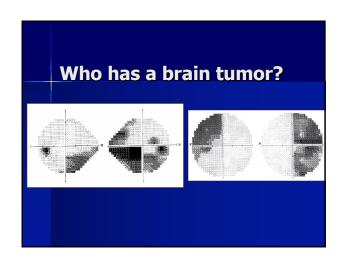
The big five causes of ophthalmic litigation Refractive/cataract surgery (missed endophthalmitis) Diabetic retinopathy Glaucoma Delayed diagnosis of brain tumor Retinal detachment





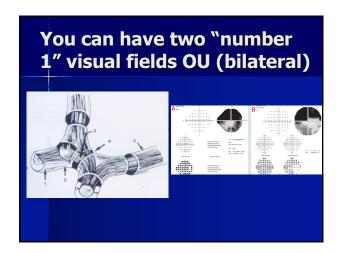




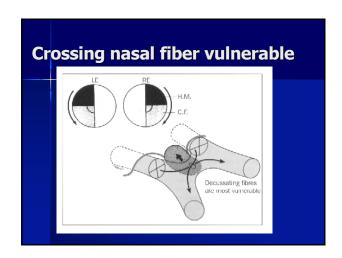


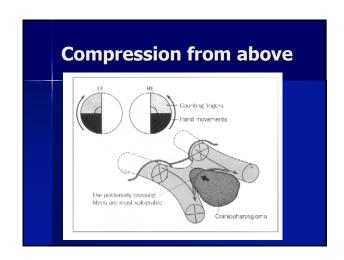


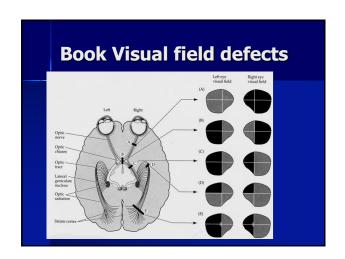


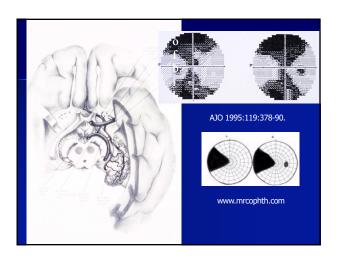


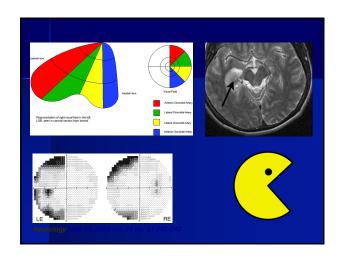


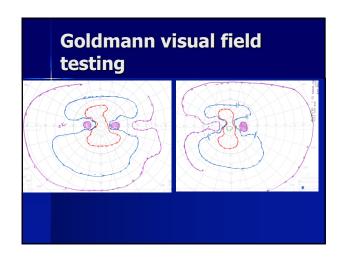


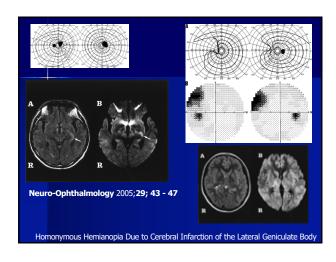


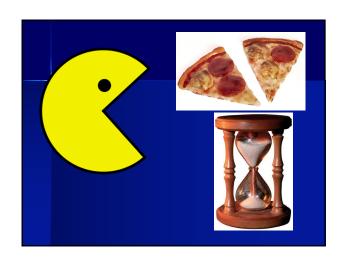




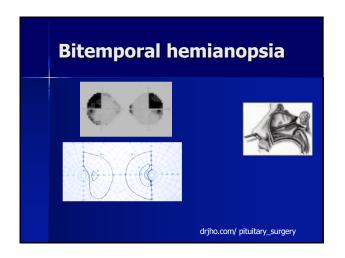








Tip 3: Bitemporal hemianopsia = chiasm Remember anterior chiasmal lesion can produce optic neuropathy Posterior chiasmal lesion can produce homonymous hemianopsia

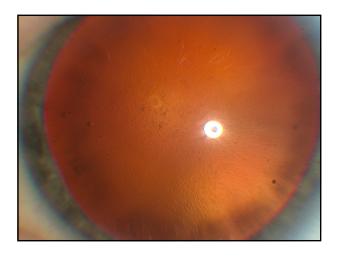


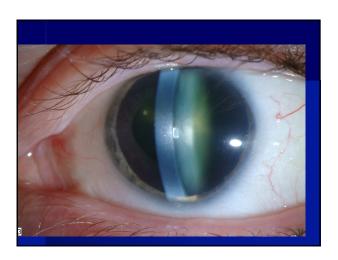
One caveat with book fields

- Book fields do NOT look like REAL WORLD fields
- Book fields
 - Always best example
 - Always fully respect the vertical meridian
 - Only show one topographic location at a time (eg bitemporal hemianopsia)
 - Never drift across vertical
 - Always look like classic examples (otherwise they wouldn't be in the book!)

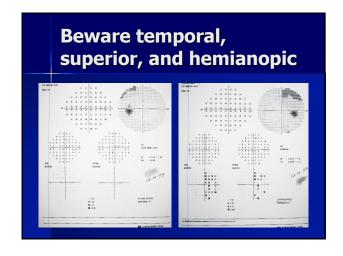
HPI

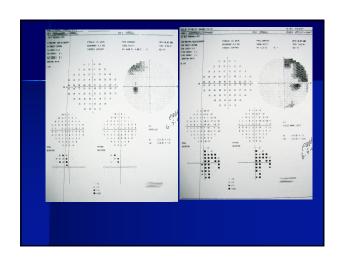
- 57 y/o WM
- Painless progressive loss of vision OU
- Multiple serial visual fields
- PERRLA each exam
- Multiple eye exams
- Dx: Fuchs and cataract OU

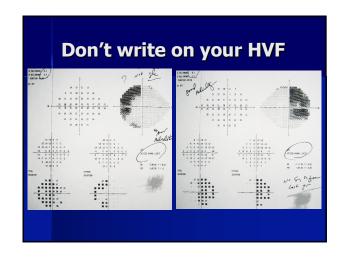


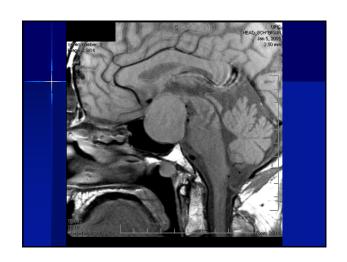


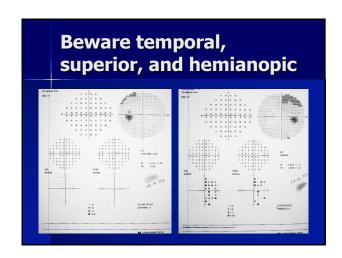




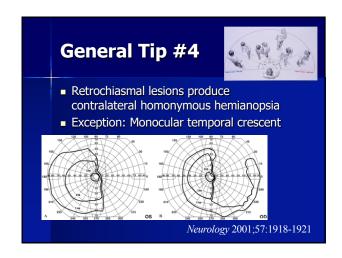


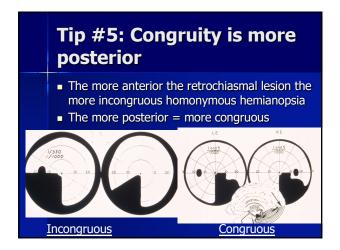


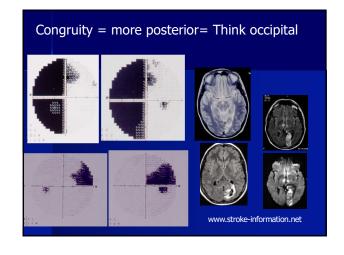


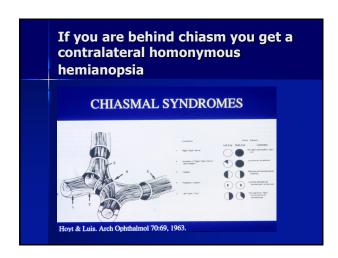


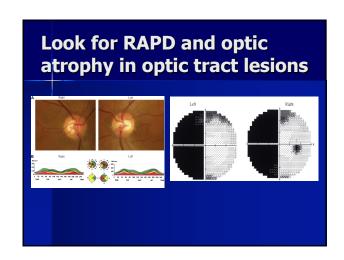


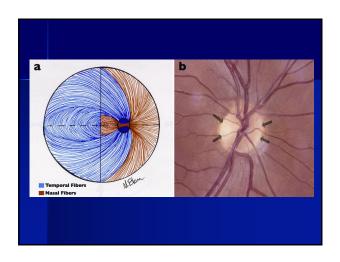


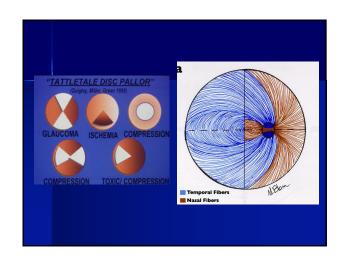


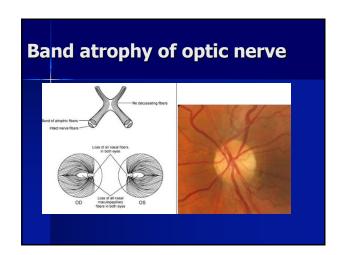


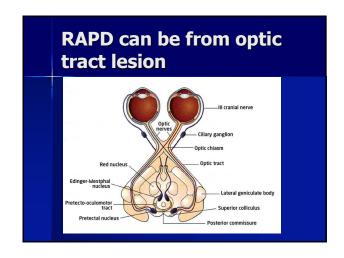


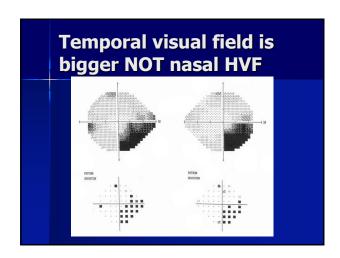




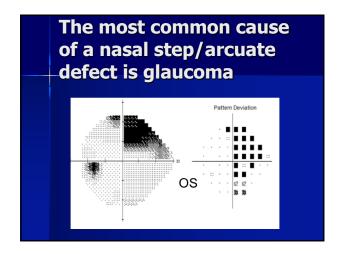


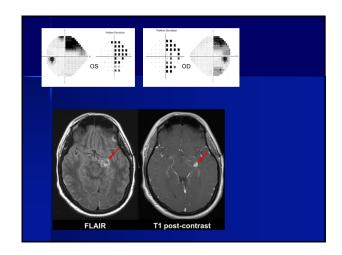


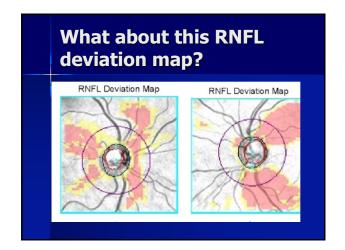


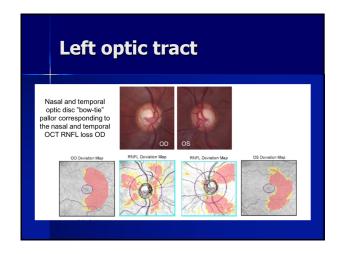


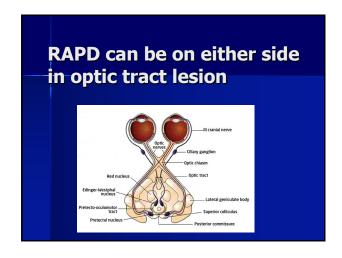


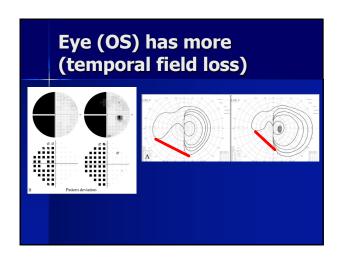


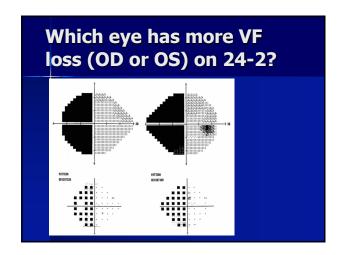


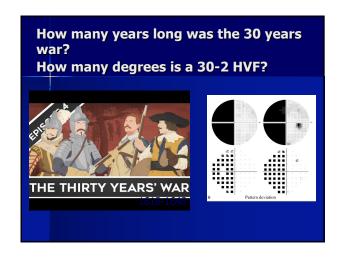


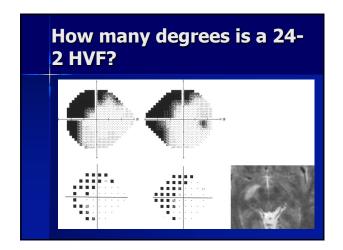






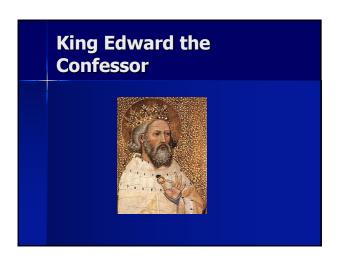


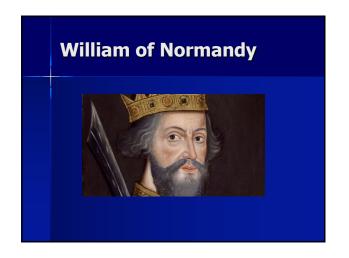




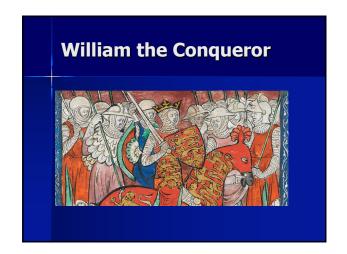


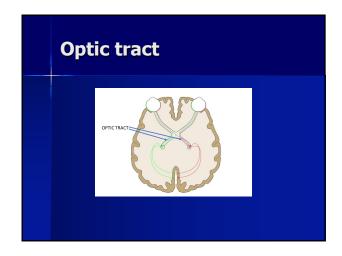


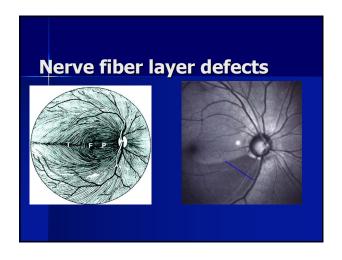


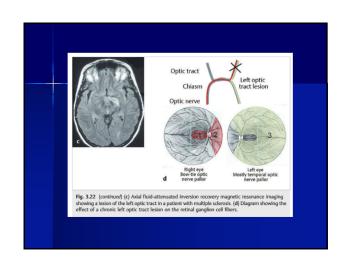


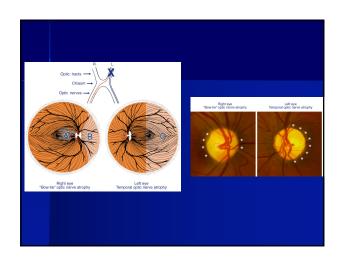


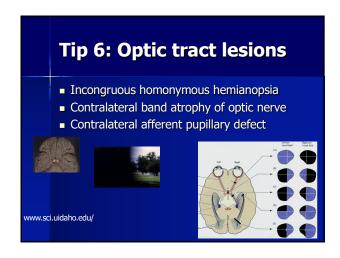


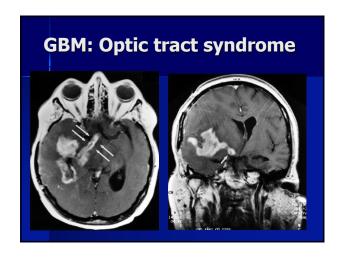


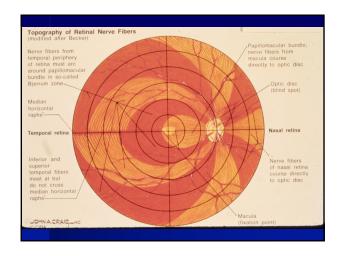


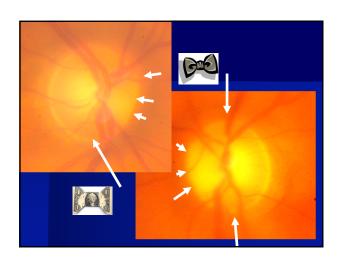


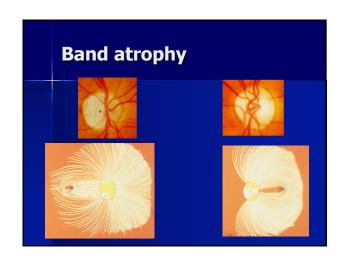


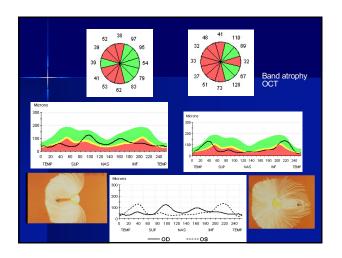


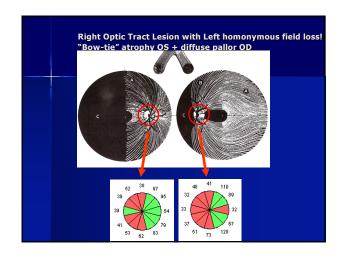


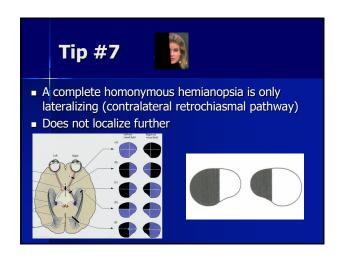


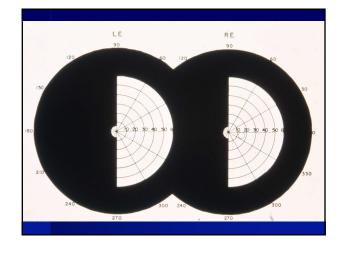




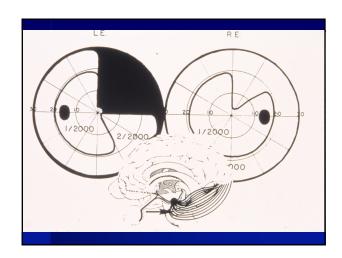


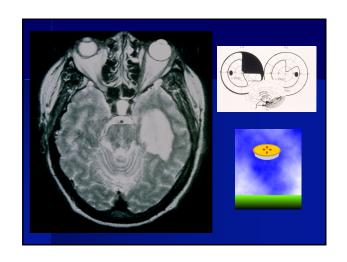


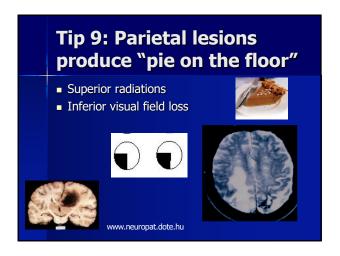




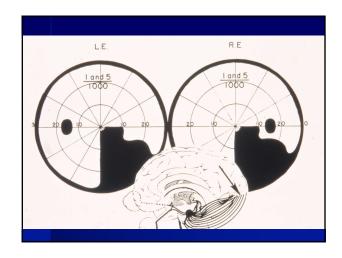


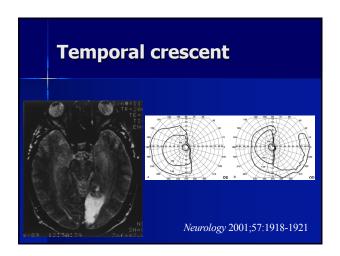


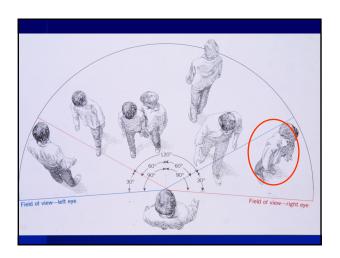


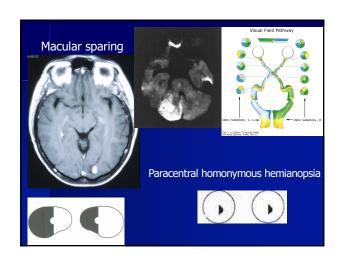












Five pearls to NOT miss the brain tumor field!....

- Always test the visual field in both eyes
- Book fields do NOT look like real world fields (publication bias)
- Unreliable visual field = You have no field (confrontation visual field still useful)
- It can always be a suprasellar lesion
- Patients can have "ticks and fleas" (don't stop just because you found something)

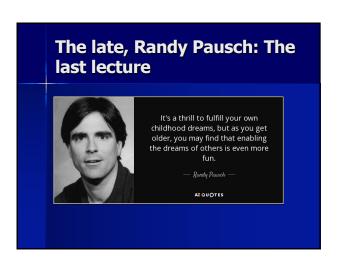
Five rules of visual fields

- VF defect in one eye = lesion of that eye (retina or optic nerve) but beware junctional VF loss
- 2. Bitemporal = chiasm but beware other chiasmal VF loss patterns
- 3. Up is up & down is down (except geniculate body)
- 4. Homonymous hemianopsia (contralateral retrochiasmal, look for RAPD, band atrophy)
- Occipital VF: Congruous = more posterior (incongruous = more anterior), macular sparing, temporal crescent

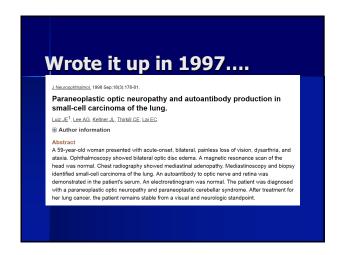
Each one of us can make a difference. Together we make change. Barbara Milkulski

In our last two minutes

- I care about feedback
- But I care more about you and your patients
- The next time you see me at ICO or AAO....
- Tell me that you learned something
- That you made a difference



Chief complaint: NONE Chief complaint: NONE now (2010) 73-year-old WF PMH: Paraneoplastic optic neuropathy, recovered CXR: Small cell carcinoma of lung Resected, chemotherapy, radiation in 1997



Follow up 2010 Pt: "You don't remember me do you Dr. Lee?" Me: "Well,...I um....sure...maybe" Pt: "I had lung cancer & you found it thru my eye" Me: "Really" Pt: "Yeah, you wrote it up in a journal" Me: "Oh, yeah, sure, now I remember. How are you, why are you coming today?" Pt: "I just wanted to tell you that I was still alive and it has been 14 years, so thanks."

