Neuro-ophthal alumni 14/4/2014

Shivanand Sheth

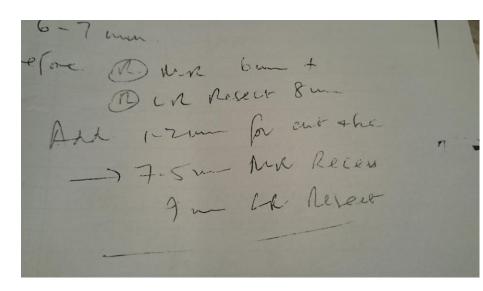
Ocular Motility Fellow

• 44 year old Male

<u>1985</u>

• Presented to RVEEH in 1985 (14 years old) to Ocular Motility with RET 45 Δ

- Anisometropic:
 - Right eye: BCVA 6/24 (-8.00/+3.50 x 165)
 - Left eye: BCVA: 6/6 (-0.5/+0.75 x 15)
- Right eye: Resess + Resect strabismus surgery



1986

• Diagnosed: Right eye Keratoconus with scarring - put on PKP waitlist

March 1987

 Had penetrating keratoplasty – Vision post-surgery without glasses documented as 6/12

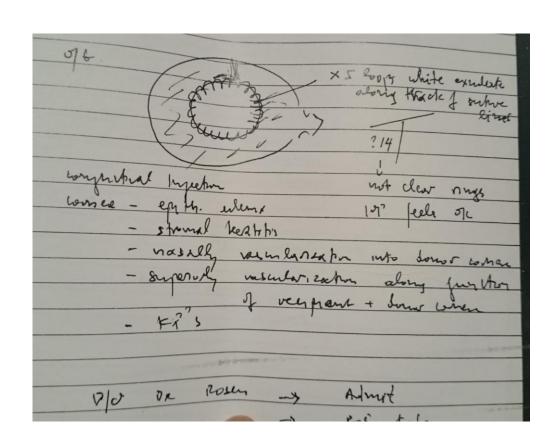
March 1988

Back with Right Red Eye

• Vision: 6/60

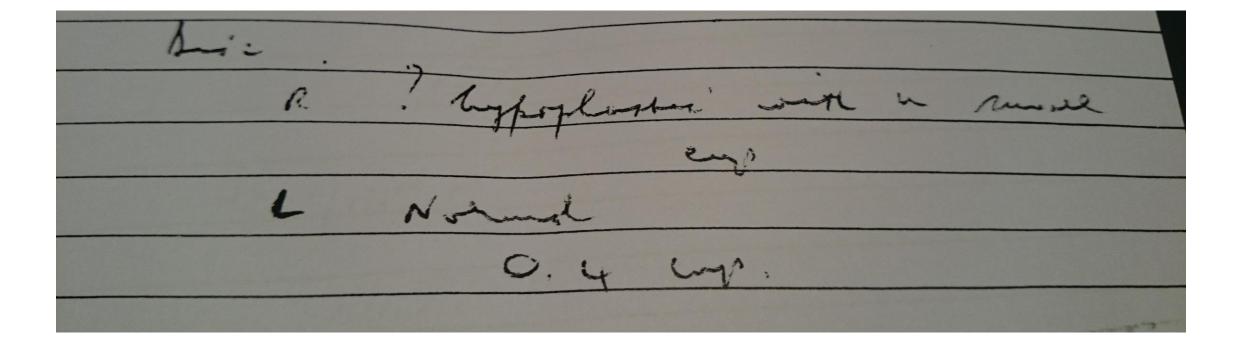
• Graft Rejection: Epithelial edema, stromal keratitis, vascularization into donor cornea

Was admitted and started on intensive steroids



August 1988

- Vision: 6/12, quiet comfortable eye
- Right Optic disc Comment: ? Hypoplastic with small cup

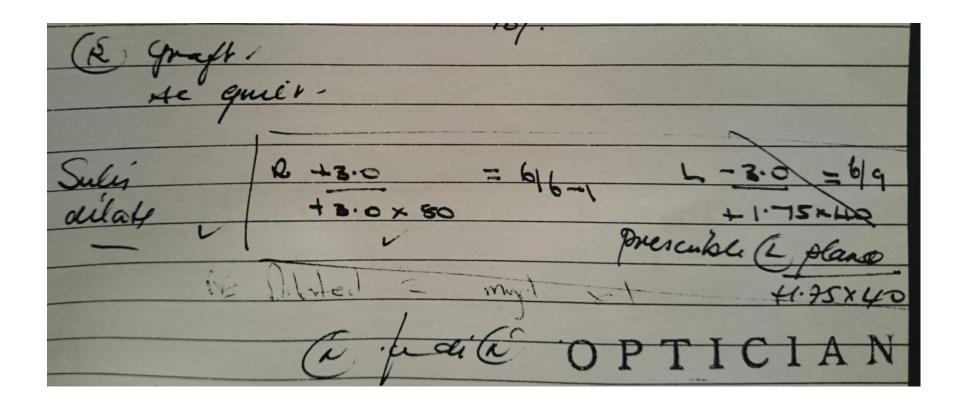


Jan 1989

• Vision: RE 6/6 with +3.00/+3.00x 80

LE 6/9 with -3.0/+1.75 x 40

• Fundus : Normal



Old history August 1994

- **RE: 6/9** (+3.00/+1.00x95)
- Left Eye 6/12 (-4.50/+2.25x20)
- Advised to try contact lens

<u>Seen in cornea 2006 – 2008</u>

- Vision:
 - Right Eye with CL: 6/6, HM without
 - Left Eye with CL: 6/6
 - Few comments with respect to dilated pupil

New History

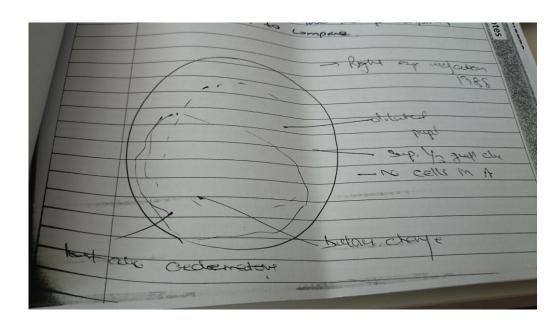
October 2013:

- Went to pvt. ophthalmologist with painful red right eye.
- Vision: Right Eye: PL, Left Eye: 6/18 -> ph 6/9
- Diagnosed as right corneal graft rejection and started on Pred forte + chlorsig
- No improvement in 2 weeks, with corneal edema → referred to RVEEH

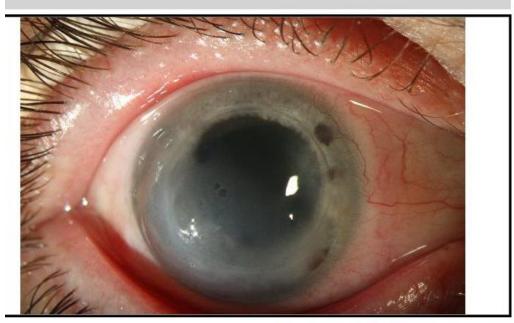
New History

Dec 2013 -Jan 2014:

- Seen at RVEEH cornea clinic
 - Considered? Graft ectasia/ hydrops in graft
- Tapered off prednisolone
- Pupil dilated noted
- "Severe visual loss not explained by appearance of cornea, retina or optic nerve"
- Advised CT brain
- Referred to Neuro-ophthalmology Clinic

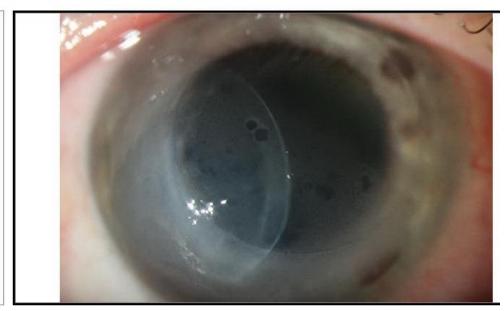


Cornea Photos





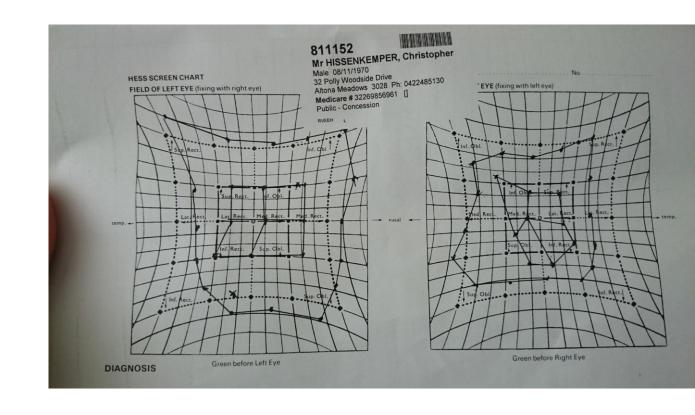


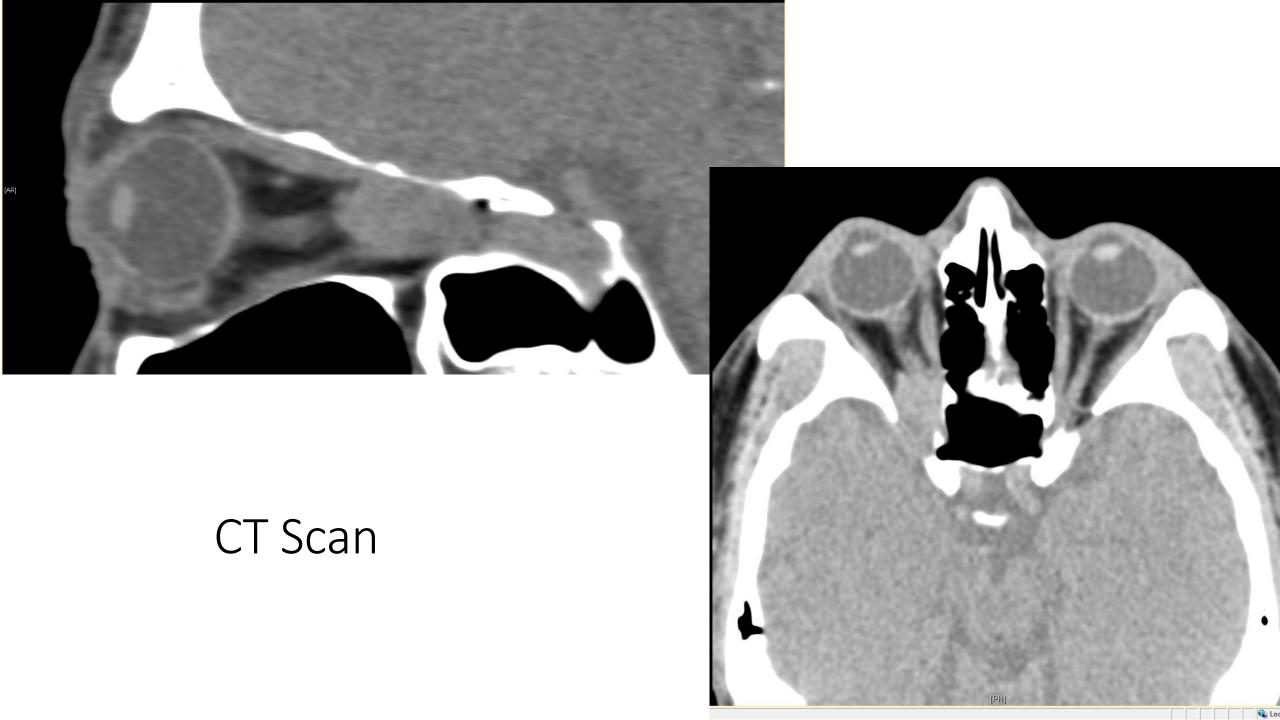


New History

Jan - Feb 2014

- CT scan report showed orbital apex tumour extending through superior orbital fissure ? Lymphoma/pseudotumour
- MRI advised
- Seen in Neuro-ophthal Clinic:
 - Dilated Pupil ? 3rd nerve
 - Noted to have RE RAPD
 - RE Vision NPL
 - RE optic disc Pale





MRI report

Well defined mass in Orbital apex of right eye arising from 3rd Nerve

 → Large nerve sheath tumour compressing optic nerve with ?
 Intracranial extension to cavernous sinus through superior orbital fissure

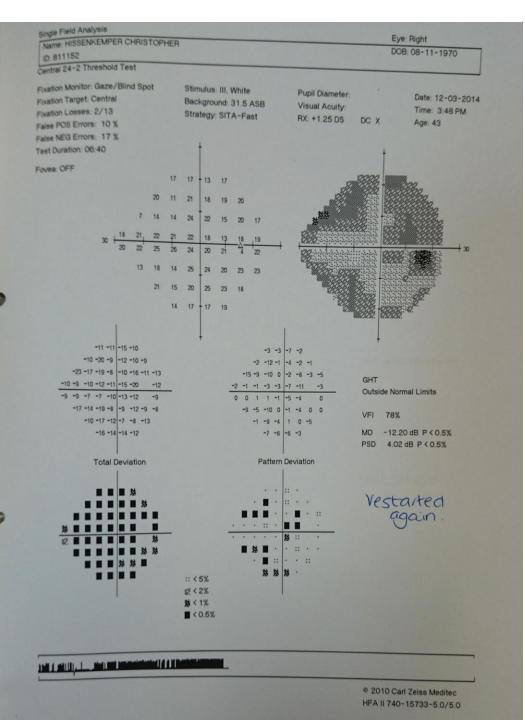
Referred to OPAL + Neurosurgery for opinion

MRI

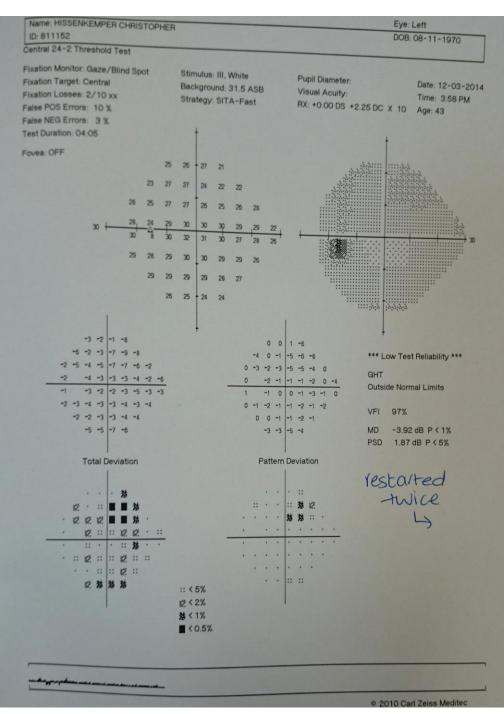




MRI



Visual fields



Case discussed at neuro-radiology meet

- Aim?
 - If to preserve vision: Neurosurgery +OPAL could go into orbit + cavernous sinus to remove tumour
 - ? Life threatening
- RE Vision NPL, but some optic disc tissue? Healthy

Plan:

OCT to check assess ON fibres and RNFL thickness to check prognosis

OCT done – diffuse NFL thinning RE

Alumni Discussion

- What next?
- Plan? Next step? Surgery/observe?
- Lot of subjective variability in reporting optic nerve appearance hypoplastic/pale/not pale - any way to standardize clinically?
- Keep mind open for all possible underlying problems possibly missed/ignored pupil findings over the years.
- Even in face of obviously visible cornea and anterior segment pathology, dilated pupils can be missed especially after Corneal graft
- Urret's Zavalia syndrome Can confound pupillary findings by causing fixed dilated pupil – is there a way to differentiate?

• Thank you