

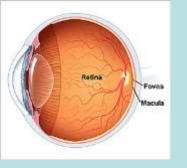


Nicholas Lee Frontiers of Retina Back of the EYE









Which has the more serious eye Problem?

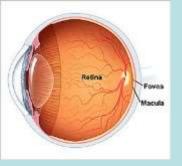














GP

- History
- Pen torch
- Ophthalmoscope
- Vision Chart

Limitations

- Equipment
- Knowledge/Training
- Time

Optometrist

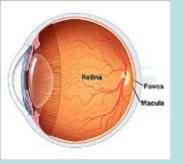
- Glasses/Refraction
- Slit Lamp
- Field Machine
- Camera
- ? OCT

Limitations

- Knowledge/Training
- Cannot Dx
- Limited Treatment
- Time/Dilatation

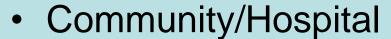








- WEH Casualty
 - Immediate Care
 - Trauma/True Emerg.
 - Equipment
 - Access to Expertise
- Disadvantages
 - Travel/Wait
 - Expertise
 - No on going care



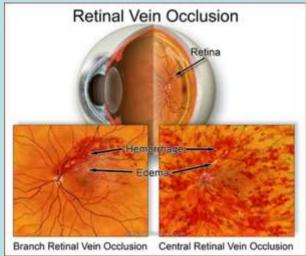
- Rapid/Routine Access
- Quality Equipment
- Quality Expertise
- Holistic Approach
- Treatments
- Time
- Limitations
 - Requires Referral
 - Waiting times

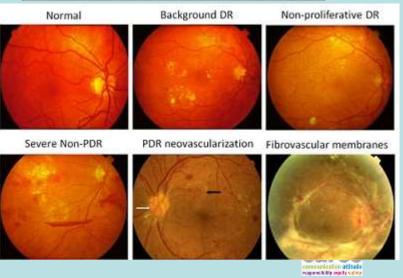




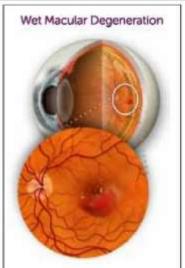


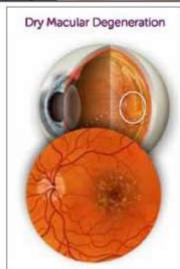
Common Retinal conditions

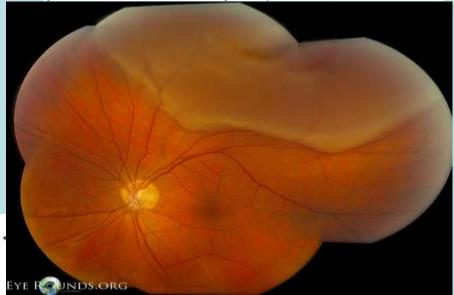


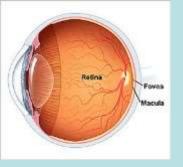












Nice Guidance

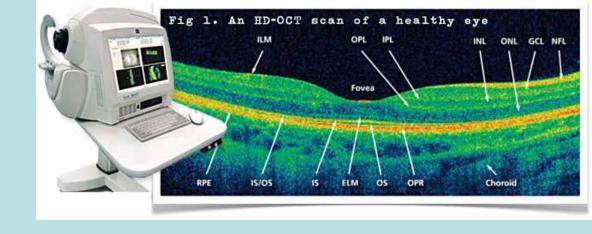


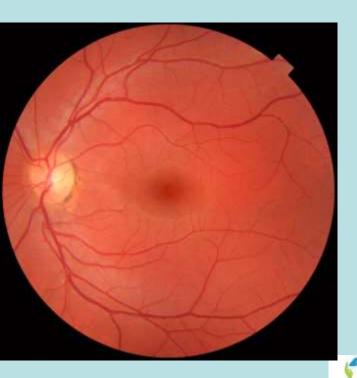
- Macular degeneration
 - Lucentis, Eylea, 2008 2013
 - Brachytherapy, Radiotherapy
- VMT Orciplasmin
- Diabetes
 - Lucentis, Eylea, Iluvien, Ozurdex
- Vein occlusions
 - Lucentis, Eyelea, Ozurdex
- Myopic Disciforms Lucentis

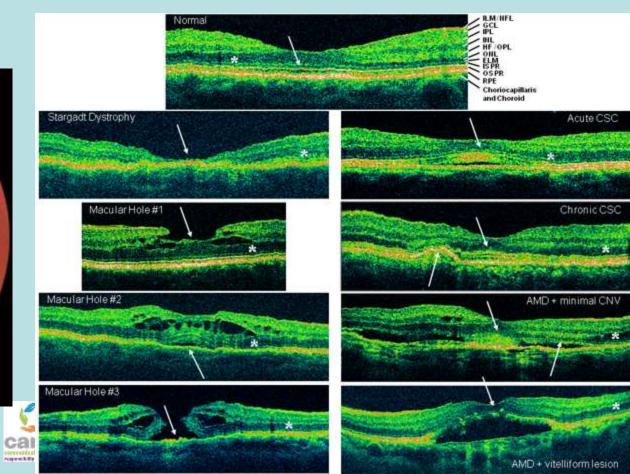


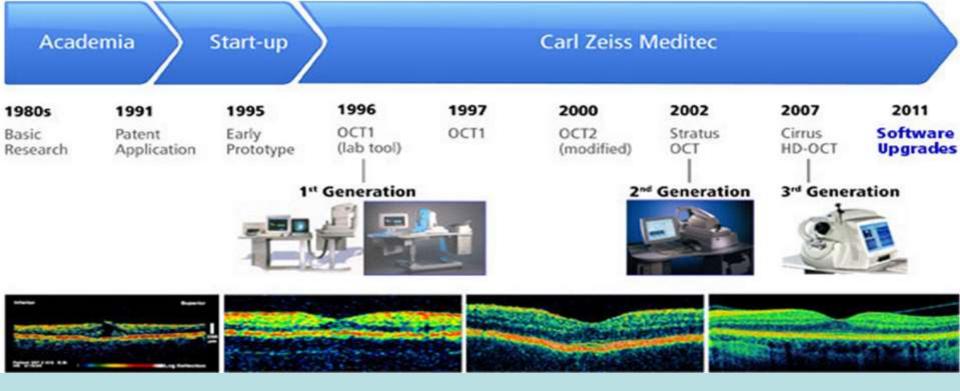




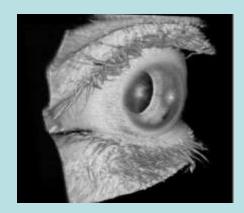


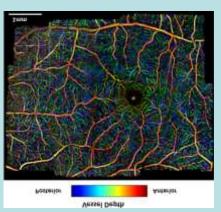






- 2015 Swept source
- OCT angiography











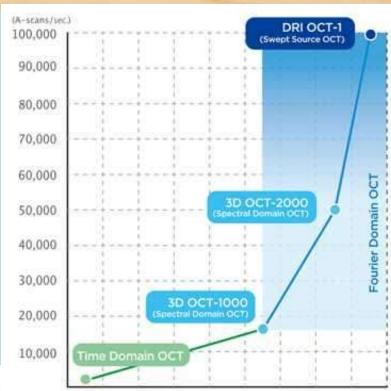
Swept Source Optical Coherence Tomography

See, Discover, Explore



Topcon SS-OCT



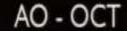


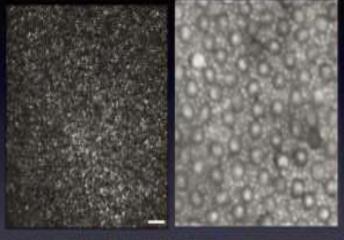
• http://www.topcon.co.jp/en/eyecare/products/product/diagnostic/or/DRI_OCT-1_E.html

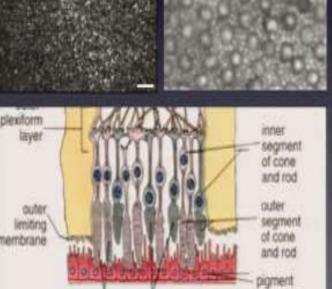
recognition in the second and the

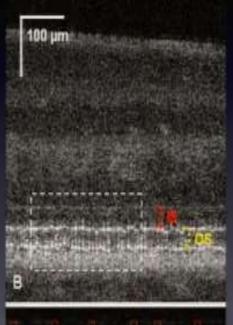
Adaptive Optics Imaging of Photorecetors

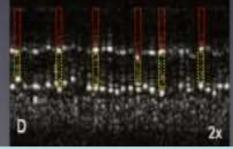
AO - SLO









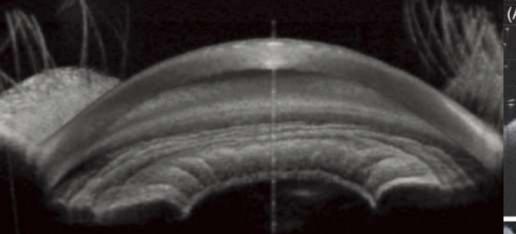


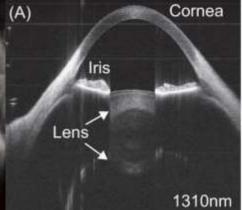


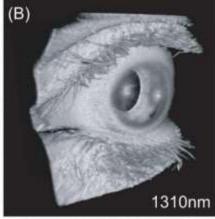
- Where Next? –
 Cellular
 Imaging
- Adaptive Optics
- Different Wavelengths
- Research Only Currently

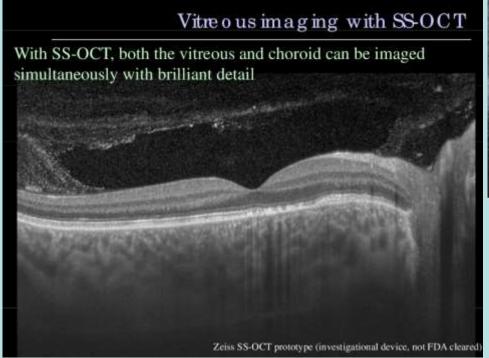


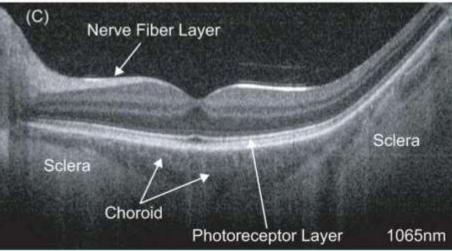






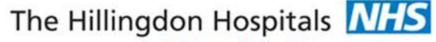




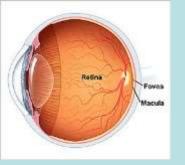


- http://english.ioe.cas.cn/ns/Sciencenews/20120 0120828 90302.html
- http://www.tomey.com/Products/OCT/SS-1000CASIA.html









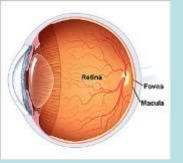
What Can YO do?



- History
 - All in the History
- Check Vision With their Glasses!
 - -6/6
- Check for distortion
 - Amsler Chart
- Examine Front of eye
 - Pen Torch, Heine Slit lamp







Pupil dilatation is safe



Rotterdam Study – 6760 patients – 0.03%

Baltimore Study - 4870 Patients - 0.00%

Blue Mountain - 3654 patients – 0.00%

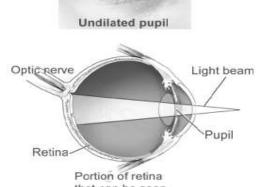
Meta-Analysis - 600,000 Patients – 0.006%

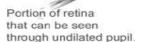
Risk in general population – 1-6 in 20,000 patients

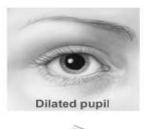
COAG 13 studies 1000 patients – 0.00%

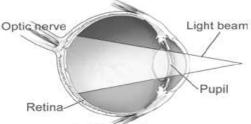
Rotterdam Study with Flat AC -149 Patients - .7%

g. Tropicamide 0.5% one Drop Warn patients to return/AE Red painful eye, blurry vision, nausea and vomiting





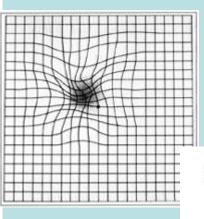




Portion of retina that can be seen through dilated pupil.













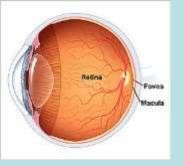












Education



- Internet
 - PubMed
 - RCOPhth, Nice, RSM, etc
 - www.nicholaslee.co.uk
 - Email, TeleMedicine, Phone
- Education
 - RSM
 - WEH Teaching Friday AM
 - Hospital/Community Clinics
- Equipment







