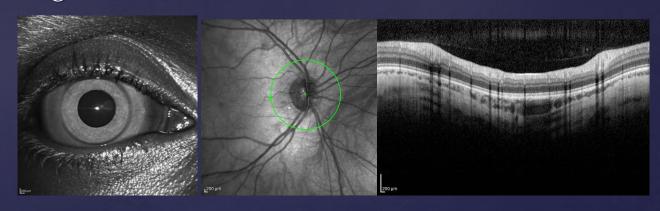
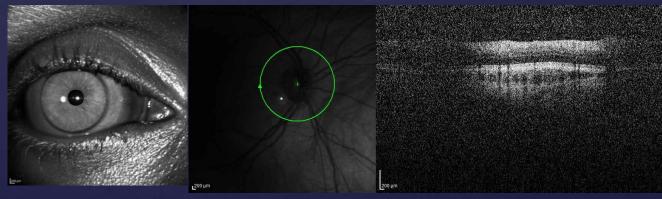
Michael P. Kelly, FOPS
Director, Duke Eye Imaging Labs & Duke OCT BootCamp
Duke University Eye Center

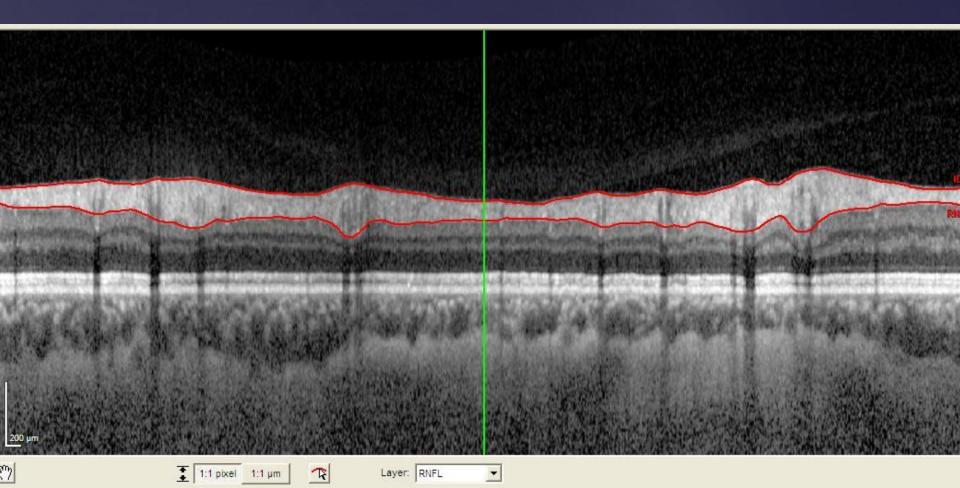
Sadly, no financial interest to report

1. Use pupillary dilation to facilitate stronger OCT saturation and to avoid vignetting

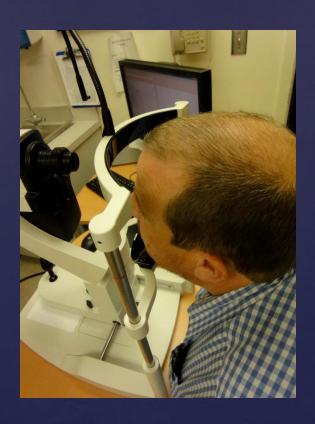




- 2. Tell Patients to Blink before scanning.
- -With Eye-tracking: Ok to blink minimally during the scan.
- -Without Eye-tracking: DO NOT blink during the scan.



3. To reduce patient movement during OCT capture, ensure the patient is seated properly and can keep their head against the bar. Have the family member hold the head in place.

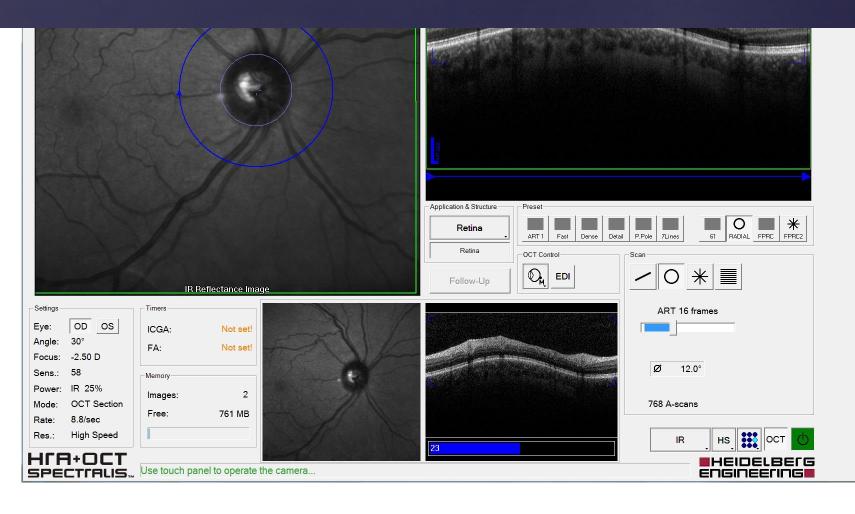


4. Use Eye-tracking to eliminate blink artifacts and allow for the follow-up scans to be in the exact same location.





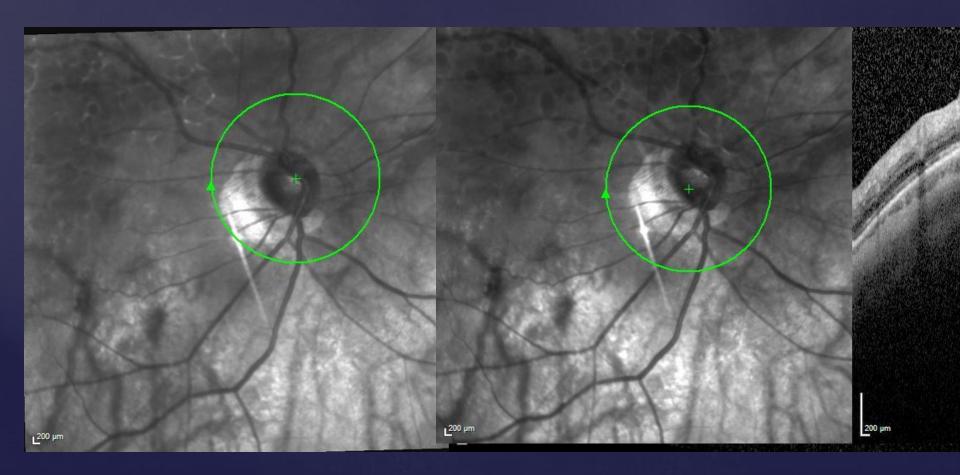
5. Keep an eye on the signal strength during the scan. ...Range is 0-40. 15 and below is bad.



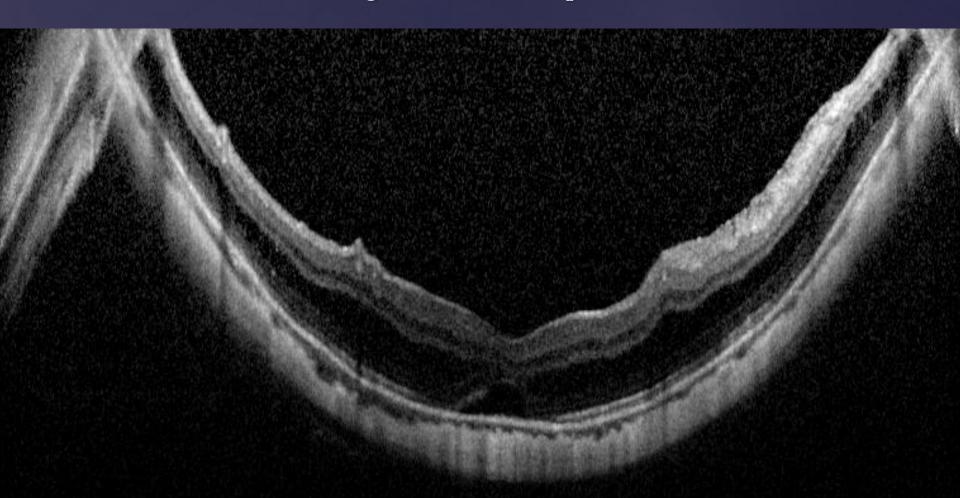
6. Watch Alignment of the *LIVE* Scan during capture...if it 'jumps' out of the scan window –stop and re-scan.



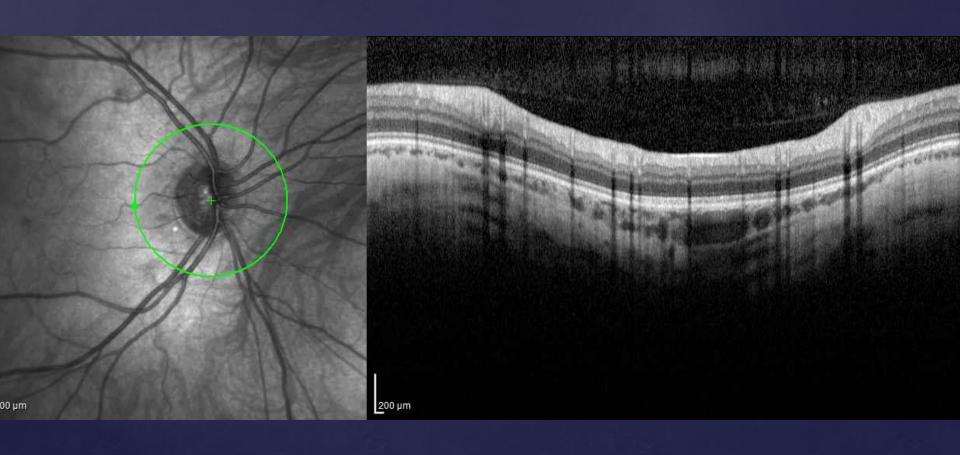
7. De-Center the RNFL Circle scan to avoid peripapillary atrophy. (Eye-tracking!)



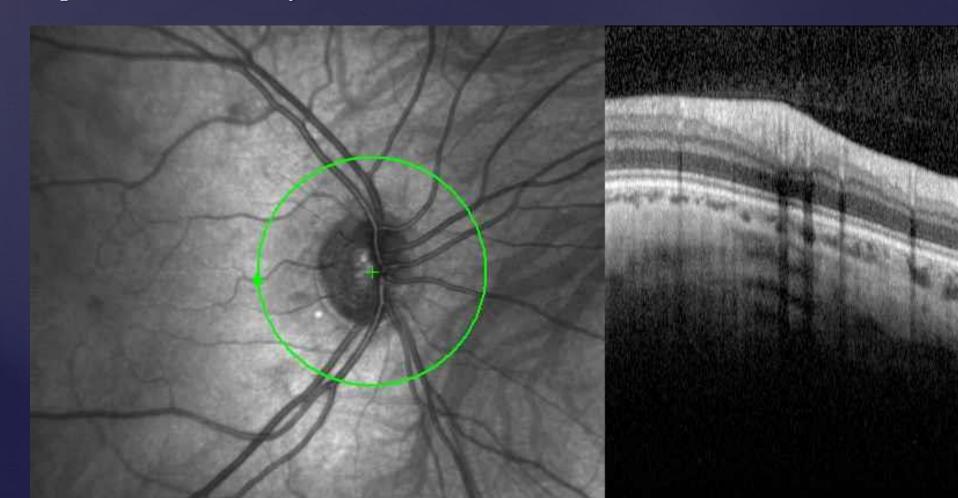
8. For High Myopes, try using a vertical volume scan to 'flatten' the scan and allow for more accurate auto-segmentation line placement.



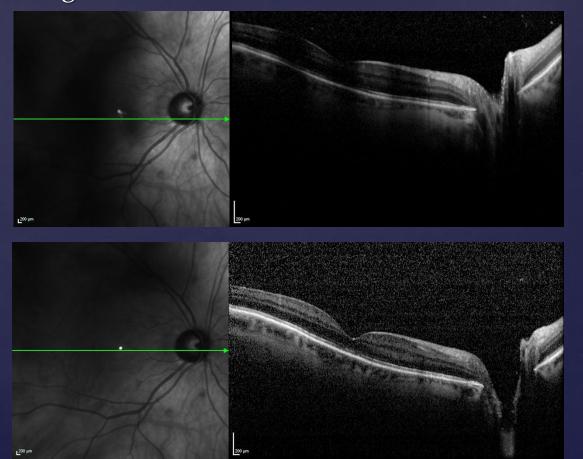
9. Critically adjust the focus and exposure of the fundus image to MAXIMIZE OCT scan strength and to provide a usable fundus image to correlate with the OCT scan.



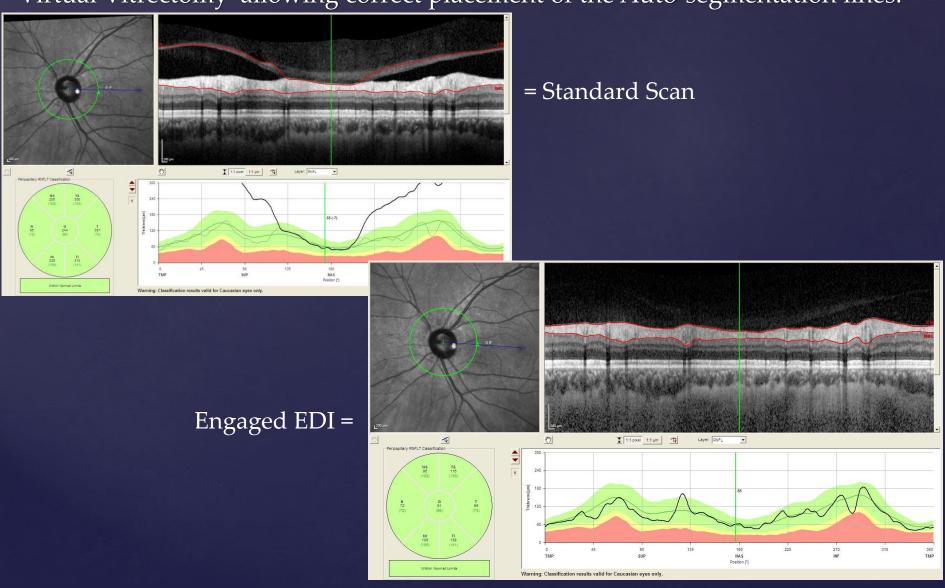
10. Engage ART, then move the RNFL Circle scan as needed for exact placement....each time you move the Circle scan it re-starts the capture automatically -REALLY Nice Feature!



BONUS Tip 11: Large Floater or Vitreous Hemorrhage? Have the patient look away for a few seconds, then look back quickly to the fixation point -this allows for a small window of time to get the scan.

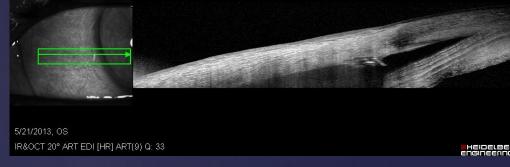


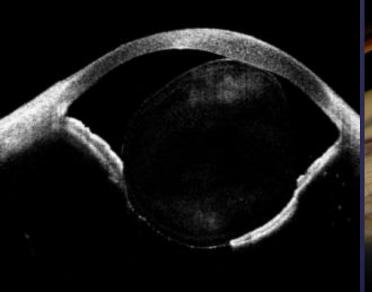
BONUS Tip 12: Use EDI in the presence of VMA, VMT, or VPT to perform a 'Virtual Vitrectomy' allowing correct placement of the Auto-segmentation lines.

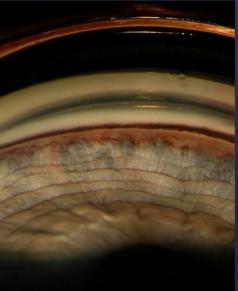


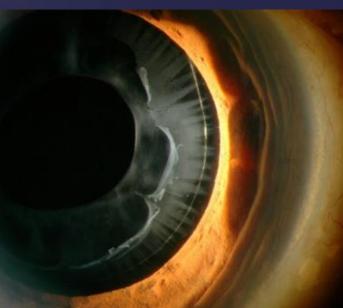


Thank you











...looking forward to the 26th Annual Glaucoma Symposium in 2014... Special Segment:

OCT for Glaucoma: Ensuring Accuracy



- > When to use OCT *Enhanced Depth Imaging (EDI)* for RNFL
- > Subtle OCT Capture Errors can = Misdiagnosis...-how to avoid them.
- > Bleb-Imaging Techniques with Anterior-Segment OCT.
- > Overriding Auto-Segmentation line placement: When? How?
- > AS-OCT techniques to image Schlemms Canal & iStent
- > SD-OCT RNFL-Scan placement challenges & considerations (peripapillary atrophy, nystagmus, etc)
- Eye-Tracking for Follow-up Scan Repeatability





