

Focus on OCT- Dispensing Opticians Extended Services Event



FYEye
Ltd.

Consultants to the Ophthalmic Sectors

SESSION 2

OCT and Clinical Practice



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Focus on OCT- Dispensing Opticians Extended Services Event

Learning Objectives

C-79614 OCT and Clinical Practice (Discussion Workshop)
3 CET Points

Optometrist



Standards
of Practice



Ocular
Examination



Ocular Disease

Dispensing optician



Standards
of Practice



Ocular
Examination



Ocular
Abnormalities

Case 1

81 year old female Caucasian.

Presenting with distortion on Amsler RE. DV/NV worse recently.

VA R 6/18+ L 6/24 IOP R 16mmHg L 15mmHg

Fields unreliable

OH- Lens opacities. No operations or drops. FOH- Nil

Non Driver

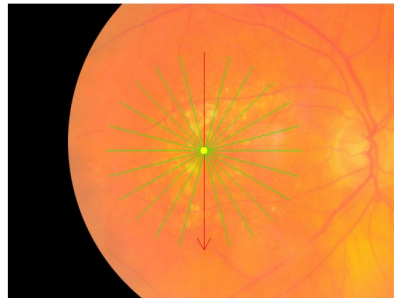
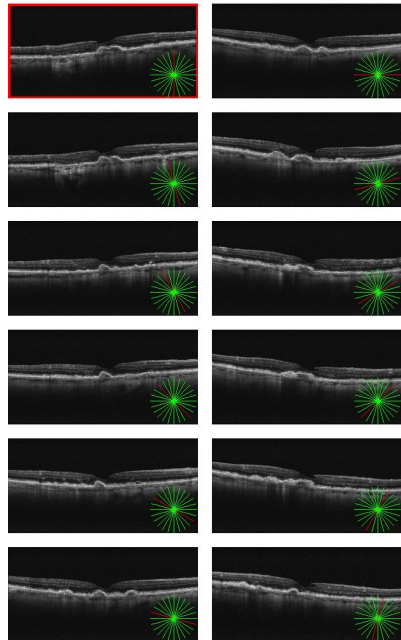
Case 1 - RE Fundus Image



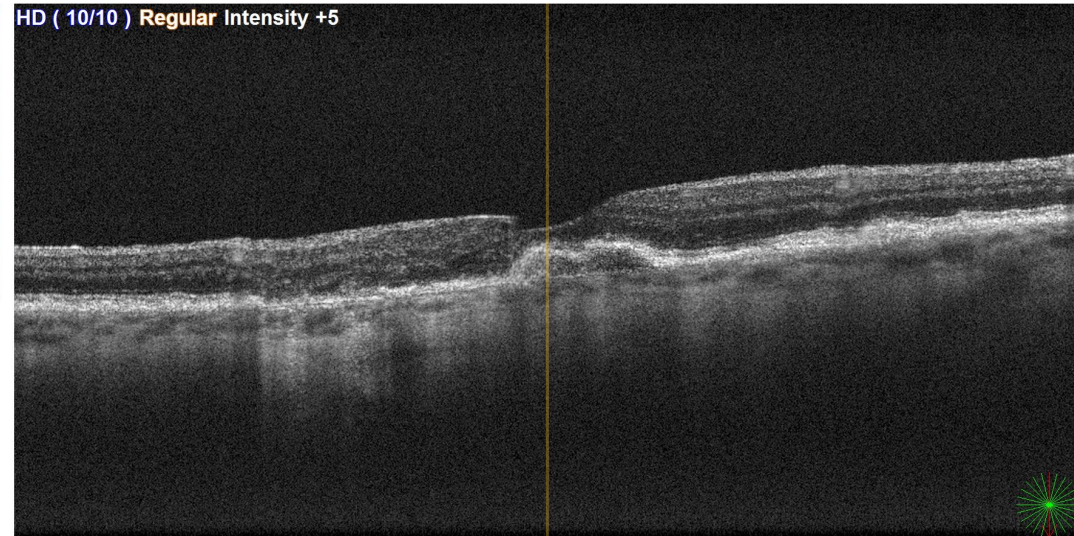
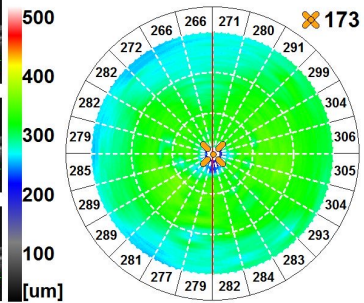
Case 1 - LE Fundus Image



Case 1 - RE B-Scan

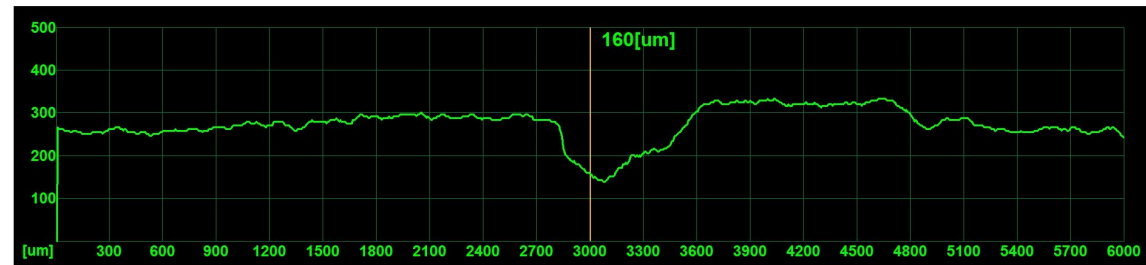


Thickness Map(ILM - RPE/BM)

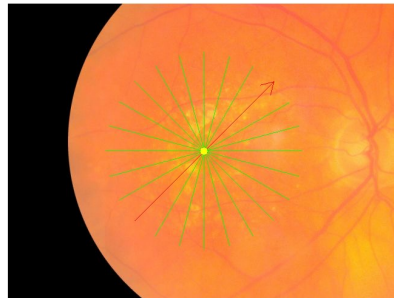
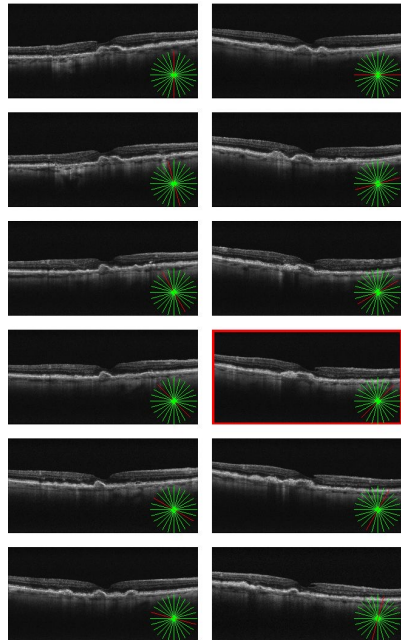


Select OCT

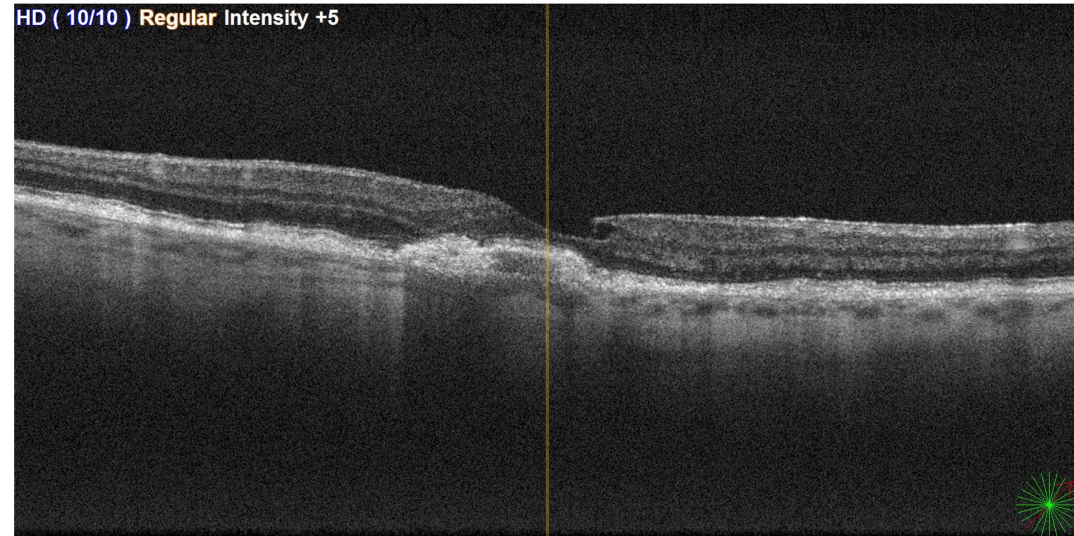
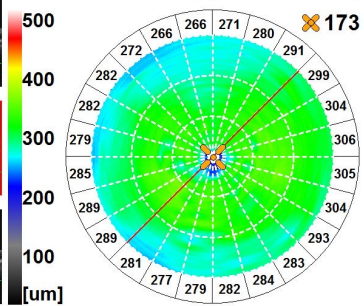
Thickness Graph(ILM - RPE/BM)



Case 1 - RE B-Scan

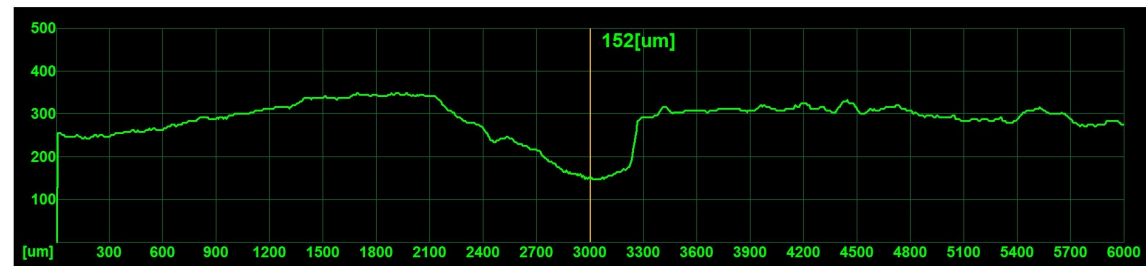


Thickness Map(ILM - RPE/BM)



Select OCT

Thickness Graph(ILM - RPE/BM)



Case 1 - Discussion

- i. What clinical signs are present on the fundus images?
- ii. From the image, B-Scan 1, what condition do you think is present?
- iii. What signs are visible on this image?
- iv. Looking at image, B-Scan 2, what might have caused the foveal aplasia (misshaping)?
- v. How might this patient be managed and what advice might they be given?

Case 2

79 year old male Caucasian.

Recent IOL LE 4 weeks ago; just stopped drops. Px presenting with blurred vision LE recent onset.

Distortion LE.

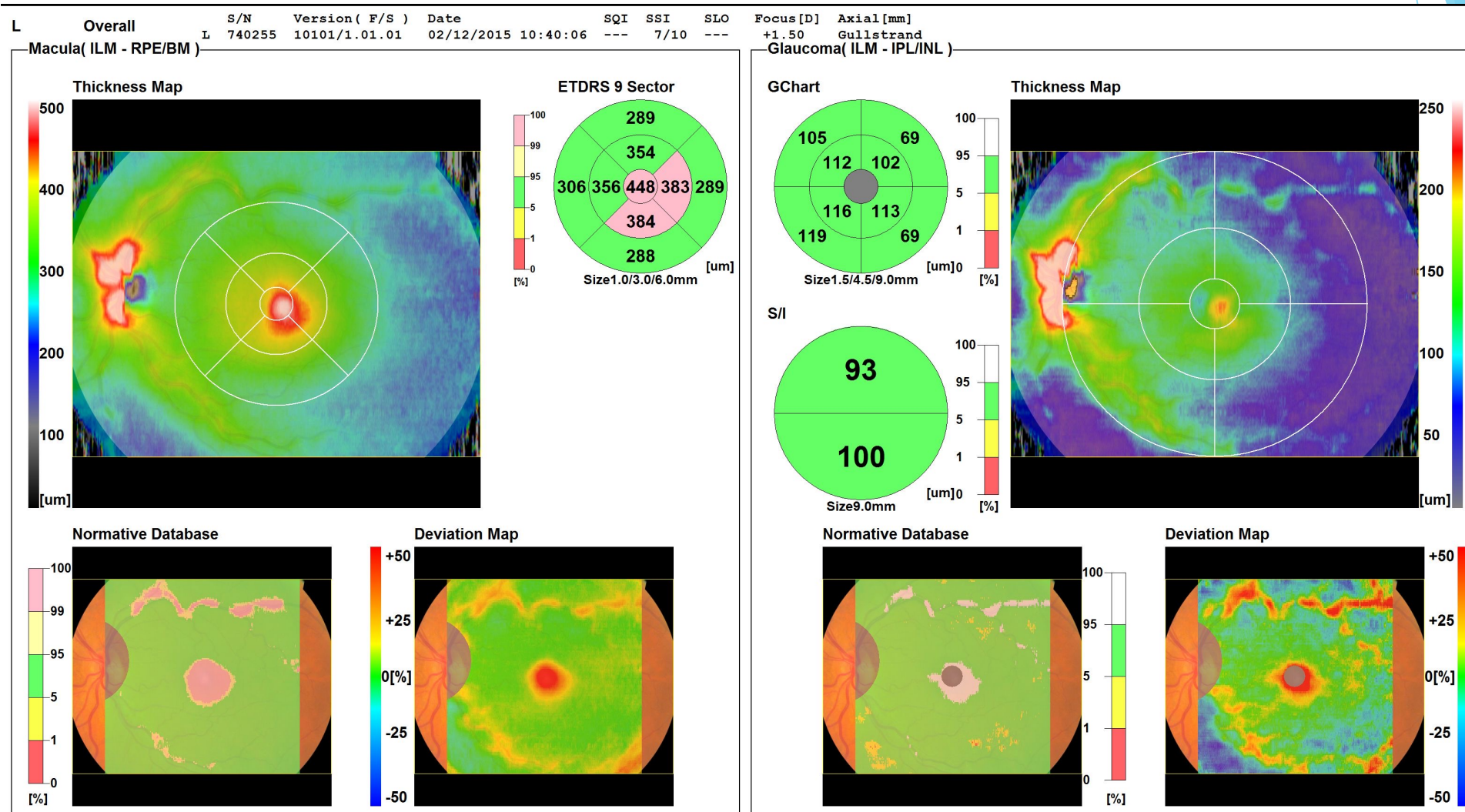
VA R 6/9 L 6/12- IOP R 14mmHg L 17mmHg

Driver

Case 2 - LE Fundus Image



Case 2 - LE Macula Map



Case 2 - LE 3D scan

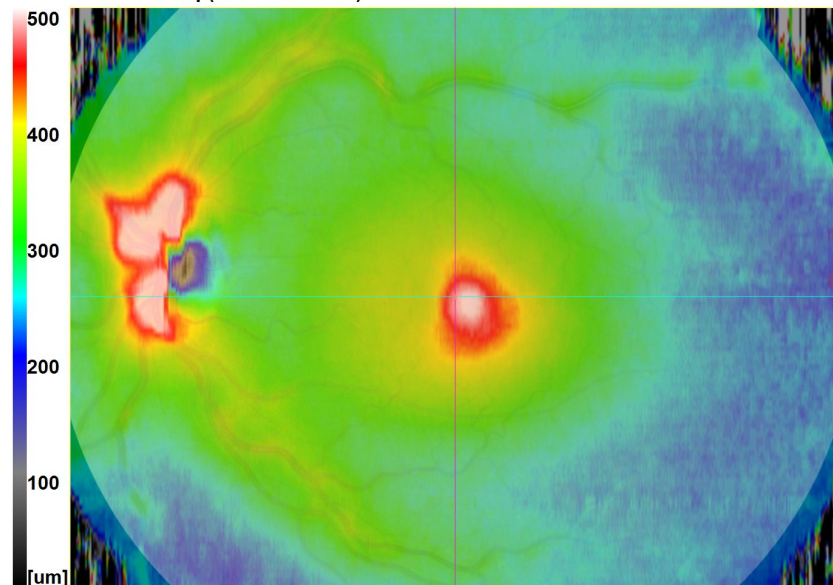
OCT Setting: MACULA MAP X-Y(12.0mm x 9.0mm[512 x 128])

Eye:L

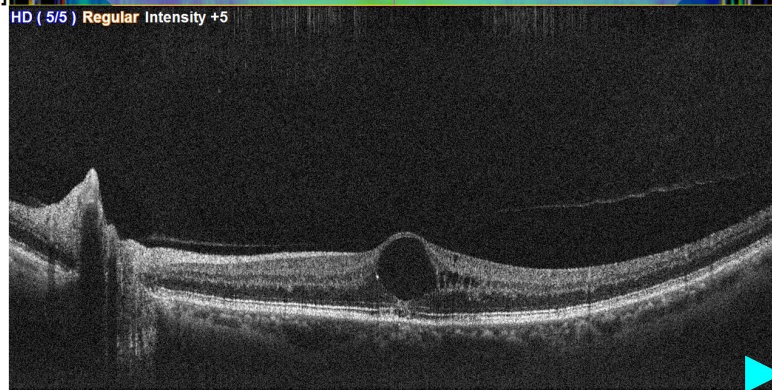
Retina Scan
Duo

L	3D	S/N	Version(F/S)	Date	SQI	SSI	SLO	Focus[D]	Axial[mm]
L		740255	10101/1.01.01	02/12/2015 10:40:06	---	7/10	---	+1.50	Gullstrand

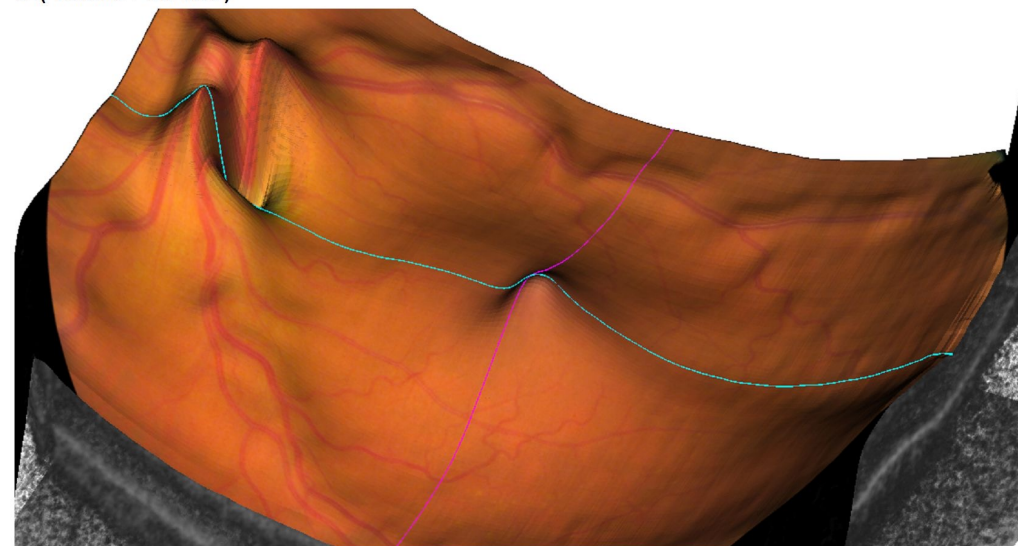
ThicknessMap(ILM - RPE/BM)



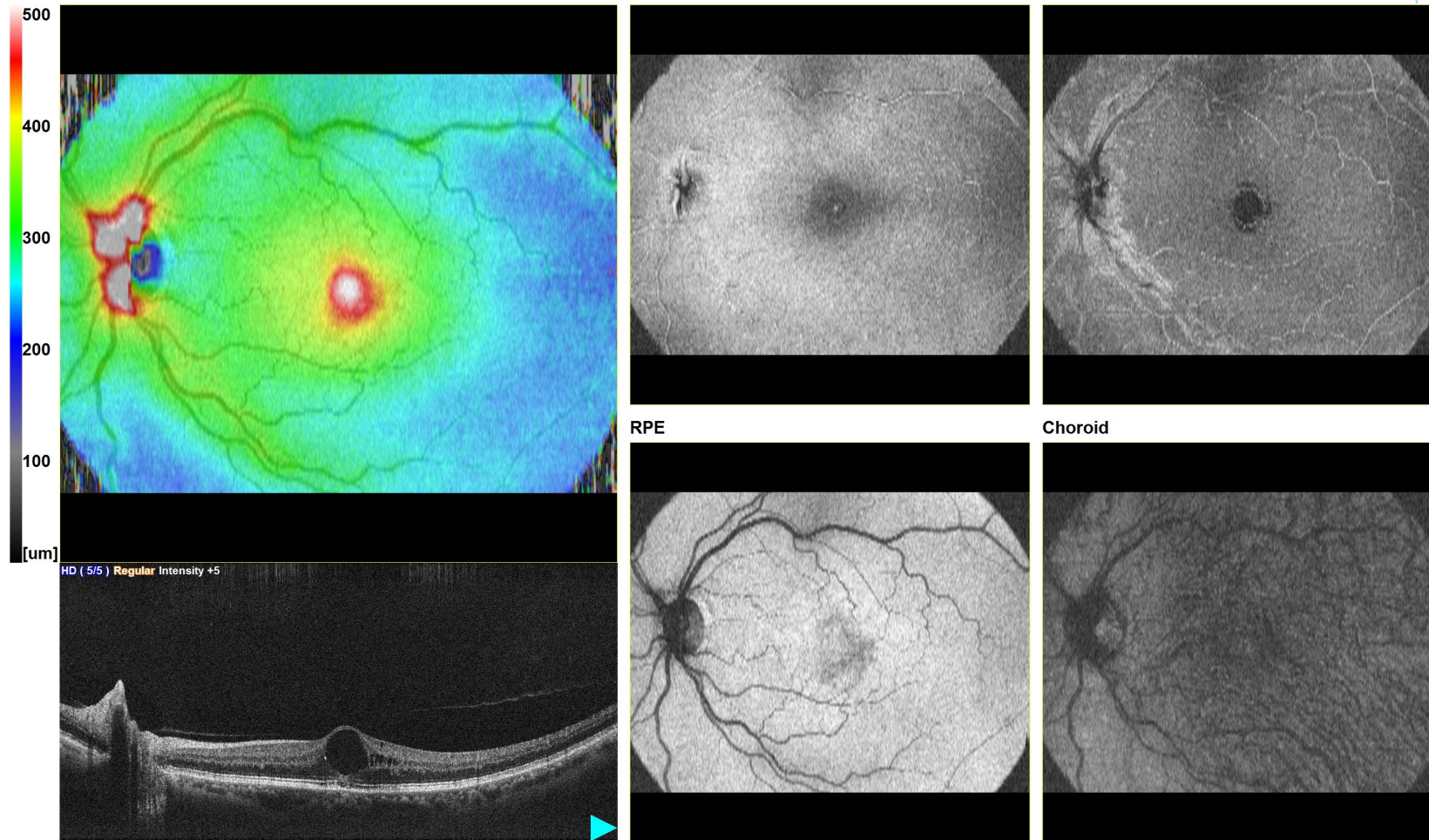
HD (5/5) Regular Intensity +5



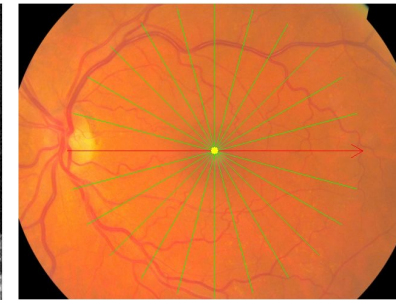
3D(Volume + Surface)



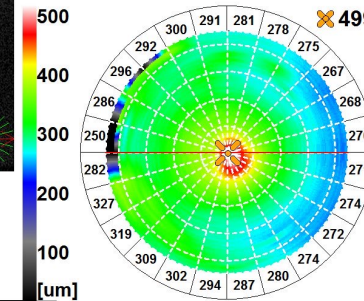
Case 2 - LE En Face



Case 2 - LE Radial Scan

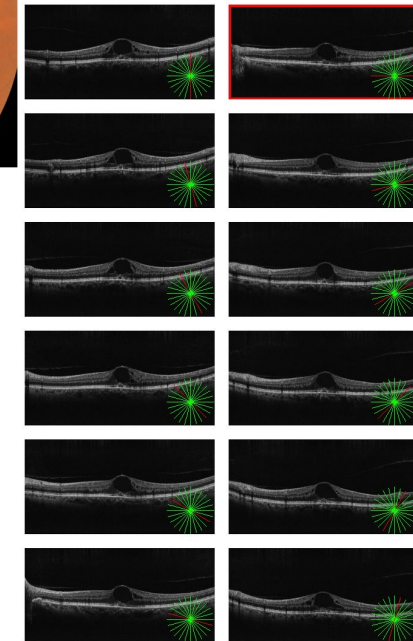
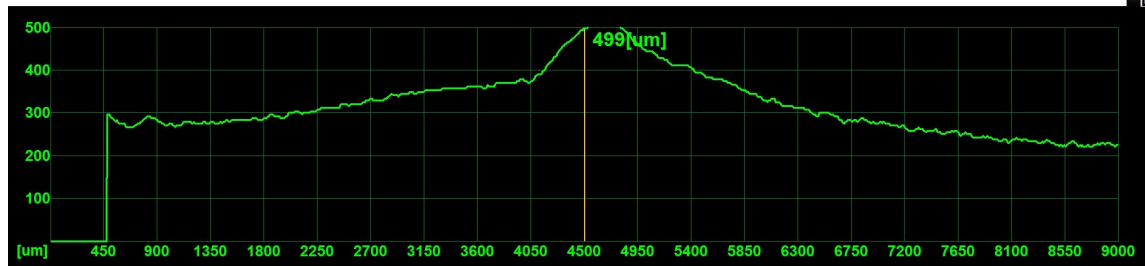


Thickness Map(ILM - RPE/BM)



Select OCT

Thickness Graph(ILM - RPE/BM)



Case 2 - Discussion

- i. Looking at the Macula Map, what does the pink on the ETDRS represent?
- ii. Looking at the thickness map on the Macula Map, what does its shape tell you?
- iii. Looking at the B-scan, what is present in the retina? Is it fluid or blood? Describe its location.
- iv. What condition do you think this might be?
- v. How would this be managed? How might they treat this?

Case 3

94 year old female Asian. LEE 2 months ago.
Very poor vision long term, but has got a lot worse
in the RE past 6 months, but has come in today with
her family as it's much worse and there is no
optometrist in the practice.

FROM current record card:

OH - AMD and cataracts. No Op's. Registered sight
impaired. FOH - Mother 'went blind'

Fundus images very poor

VA R 1/60 L 3/60. IOP R 22mmHg L 21mmHg

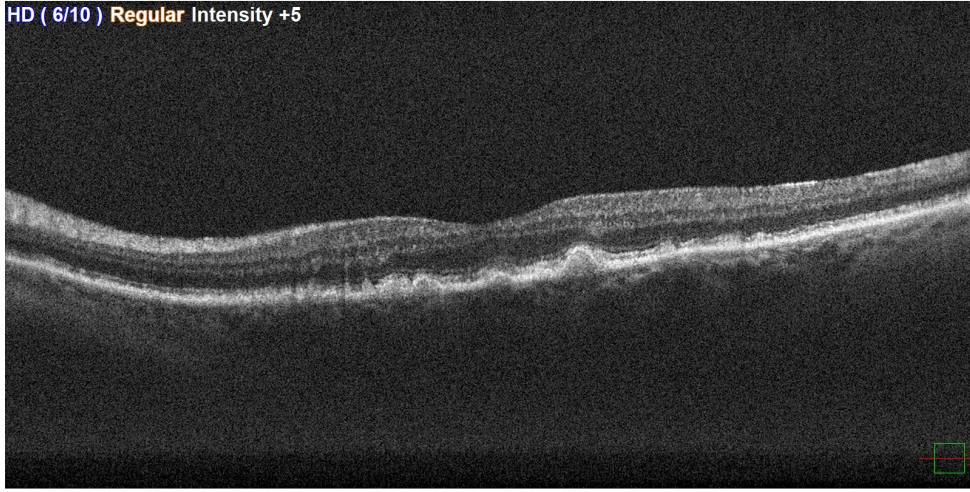
Today R CF L 2/60.

Case 3 - LE Multi Scan

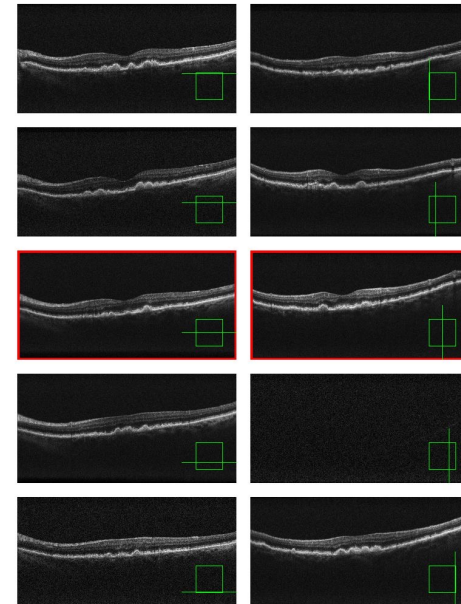
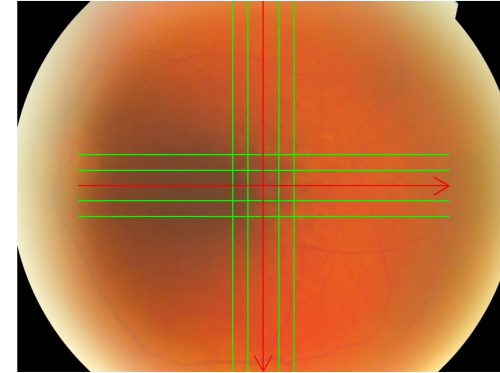
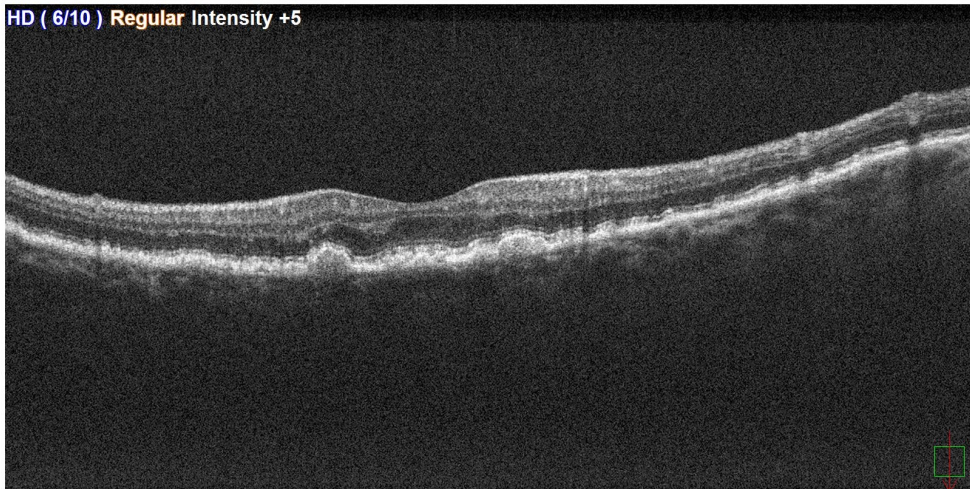
L

	S/N	Version(F/S)	Date	SQI	SSI	SLO	Focus[D]	Axial[mm]
L	740114	10001/1.00.01	08/04/2015 14:53:46	---	6/10	---	+2.00	Gullstrand

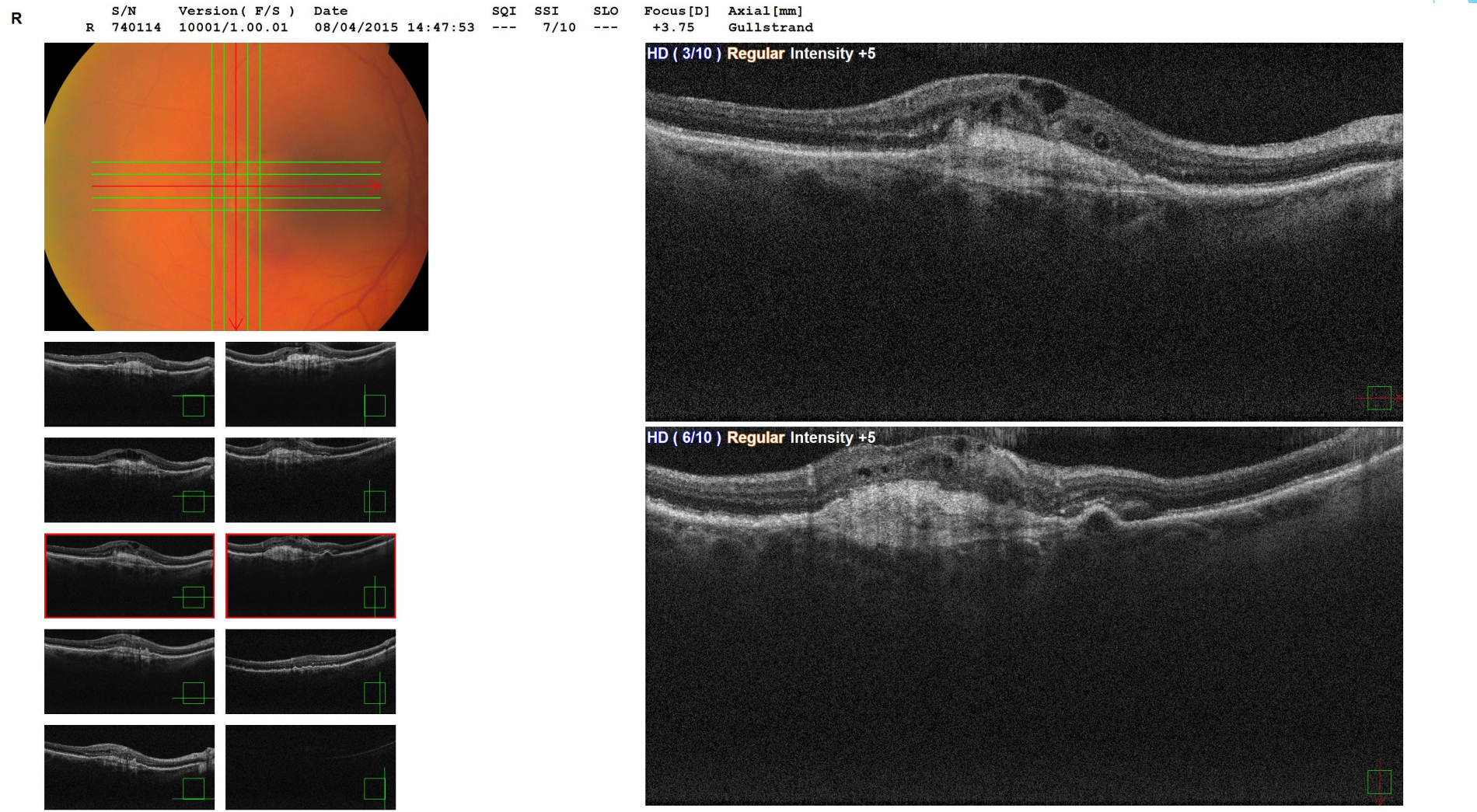
HD (6/10) Regular Intensity +5



HD (6/10) Regular Intensity +5



Case 3 - RE Multi Scan



Case 3 - Discussion

- i. Looking at the images, describe all the clinical features present on the OCT scans in both eyes
- ii. What is the bright area beneath the RPE in the RE?
- iii. How would you manage this patient?
- iv. What extra tests might the HES perform?
- v. Would treatment be offered? What might that be?

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the left and right sides of the frame, creating a modern, dynamic border around the central text.

Thank you for listening

References

1. Central Mersey LOC referral guidelines
2. Alexander T. Nguyen MD, David S. Greenfield MD, Amitabha S. Bhakta PhD, Jennifer Lee MD, William J. Feuer MS. Detecting Glaucoma Progression Using Guided Progression Analysis with OCT and Visual Field Assessment in Eyes Classified by International Classification of Disease Severity Codes. *Ophthalmology Glaucoma*, Volume 2, Issue 1, January-February 2019, Pages 36-46.
3. Andrew J. Tatham FRCOphth, FRCS, Felipe A. Medeiros MD, PhD. Detecting Structural Progression in Glaucoma with Optical Coherence Tomography. *Ophthalmology*, Volume 124, Issue 12, Supplement, December 2017, Pages S57-S65.
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