Focus on OCT- Dispensing Opticians Extended Services Event



Consultants to the Ophthalmic Sectors

WORKSHOP 1

Example OCT pathology cases with discussion



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Focus on OCT- Dispensing Opticians Extended Services Event

Learning Objectives

C-79655 Example OCT Pathology Cases (Discussion Workshop)

3 CET Points

Optometrist







Standards of Practice Ocular Examination Ocular Disease

Dispensing optician







Ocular Examination



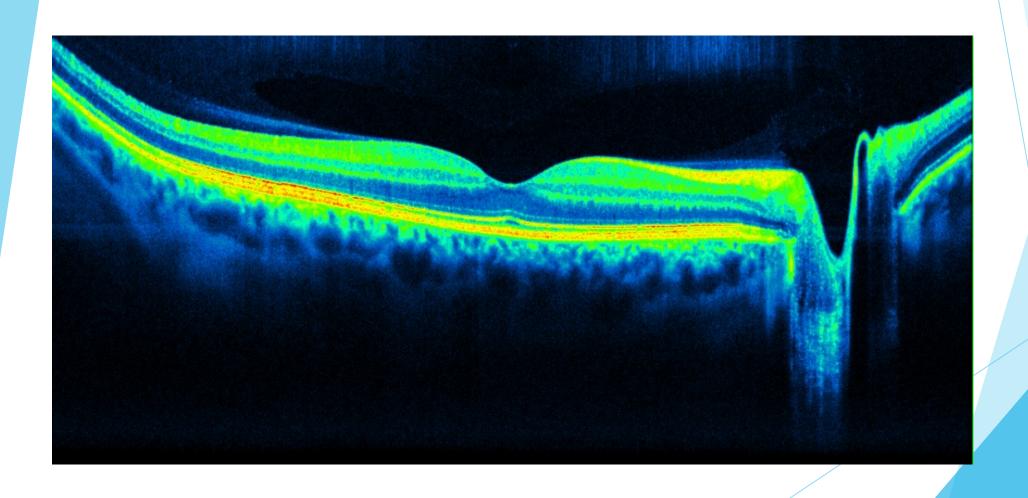
Ocular Abnormalities

Introduction

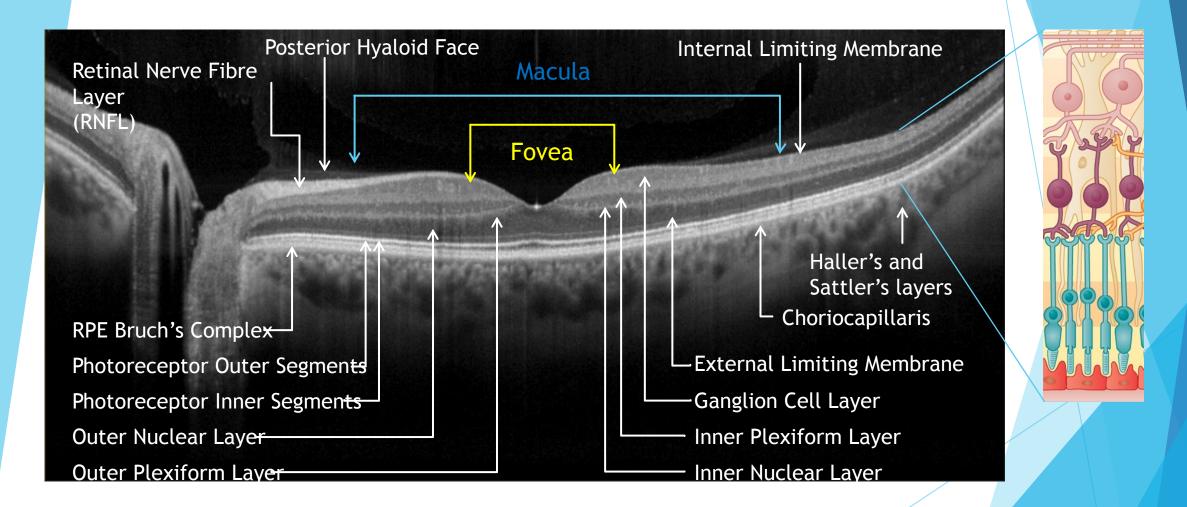
Please remember to assign a table / group lead. Everyone must list their name, GOC number and email address please.

- Quick Recap
- Cases with discussions
- Quickfire lesion identification

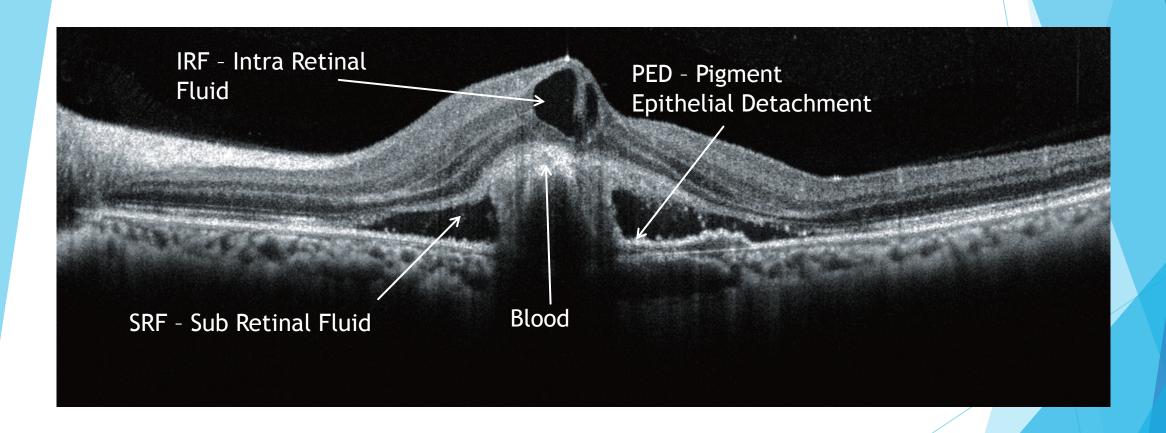
Quick Recap B-Scan



Quick Recap



Quick Recap

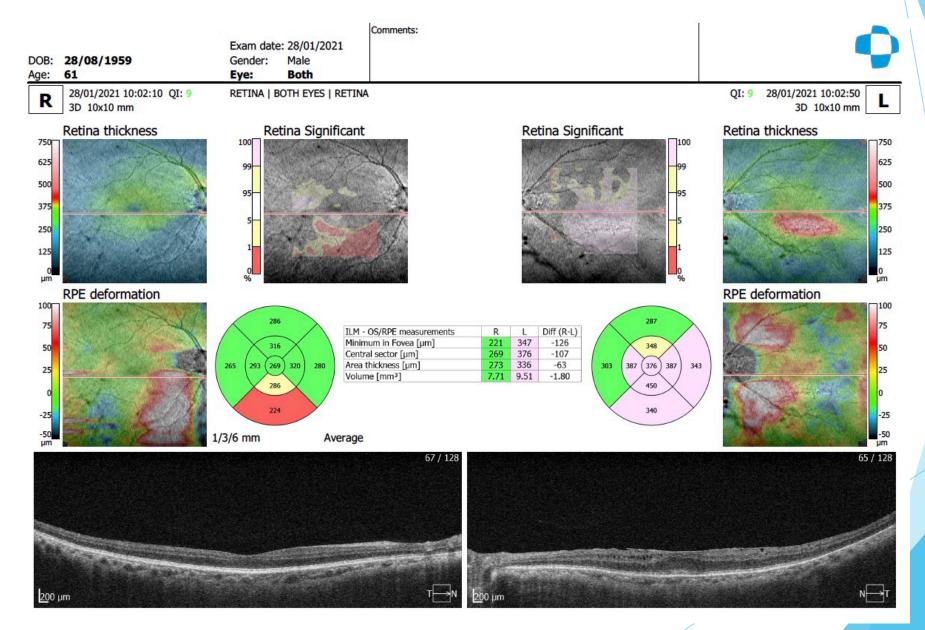


Quick Recap





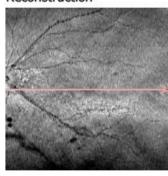
Cases with discussion

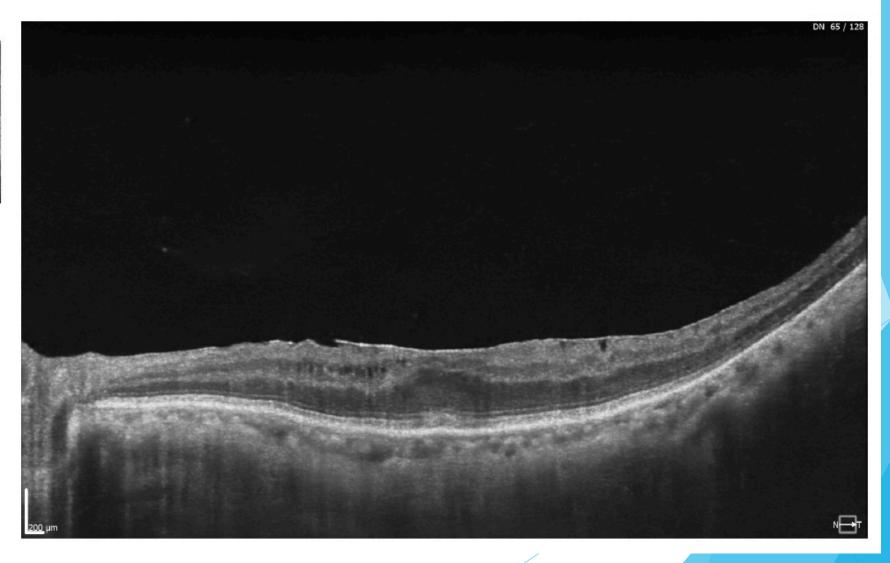


L

28/01/2021 10:02:50 QI: 9 3D 10x10 mm RETINA | Tomogram



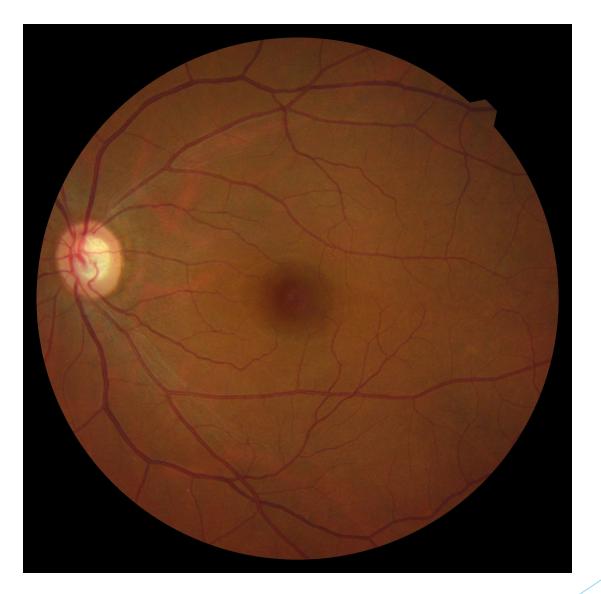


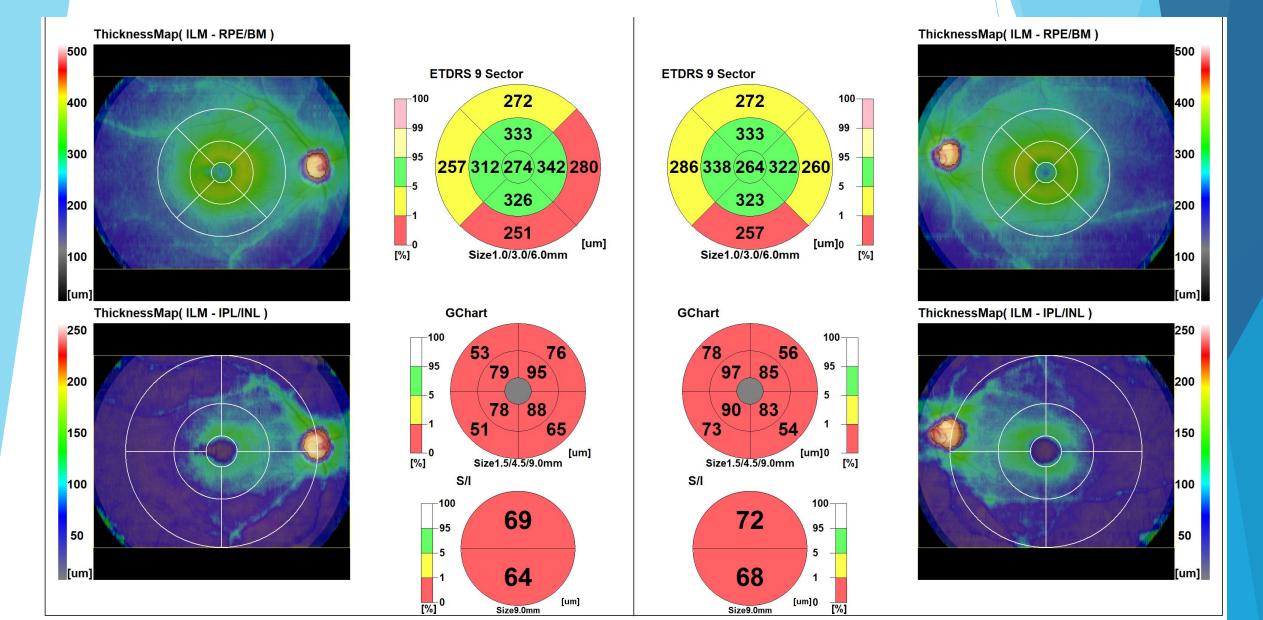


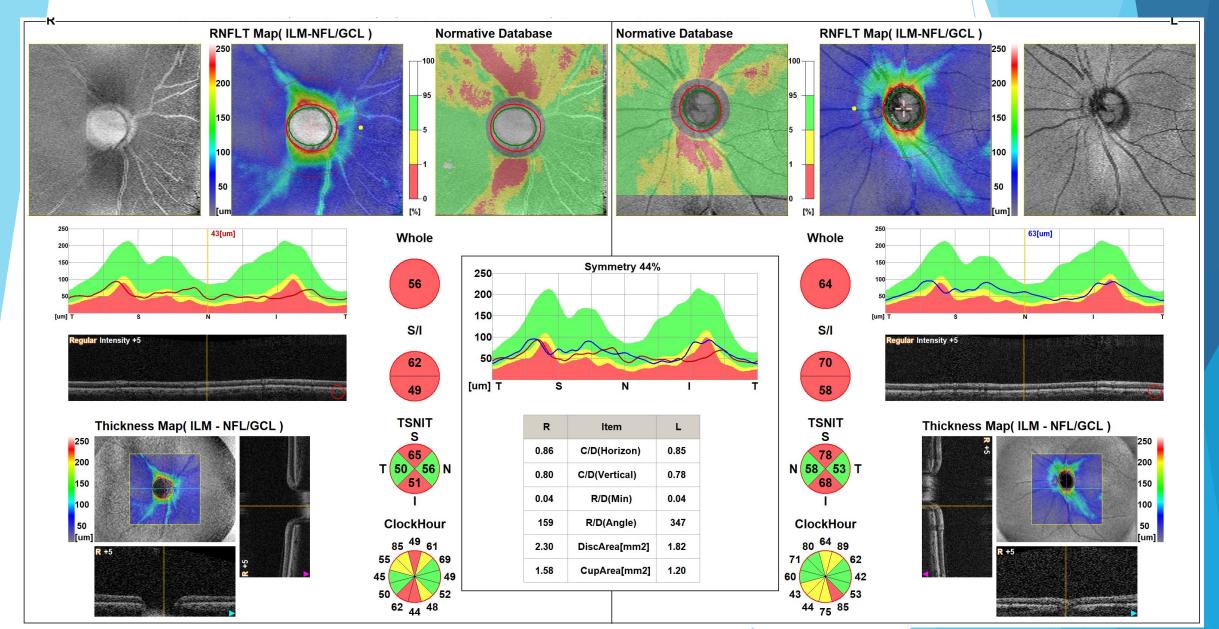
Case 1 - Discussion

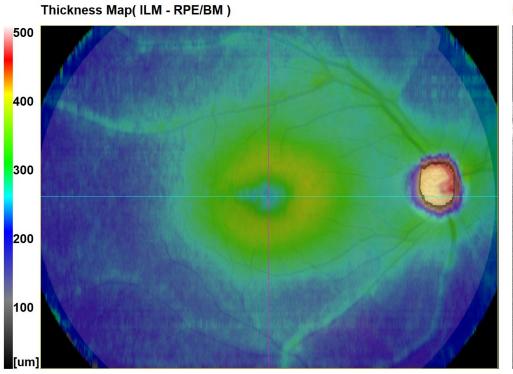
- 1. What does the pink colour mean on the left eye normative macula map?
- 2. Can you locate the likely lesion that is causing this effect?
- 3. What do you think this lesion might be called?
- 4. Do you know how it might be managed?





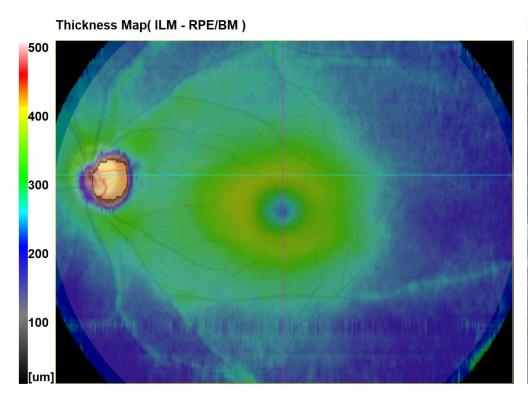




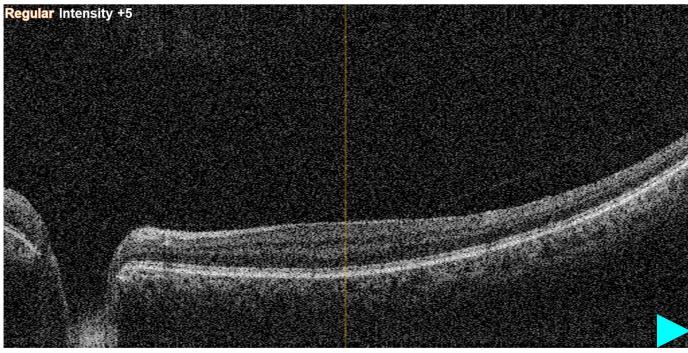


OCT(Horizontal Cross)



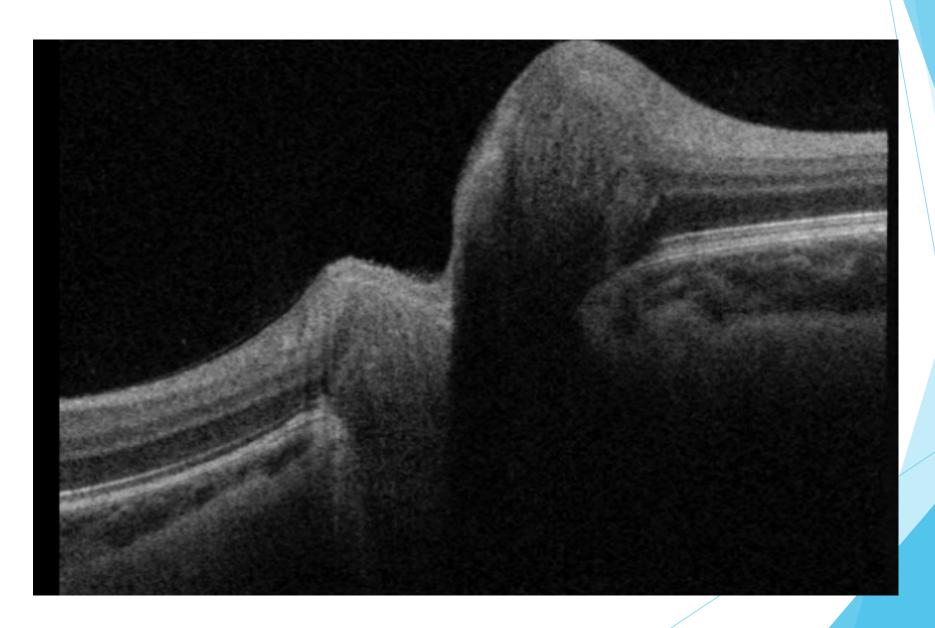


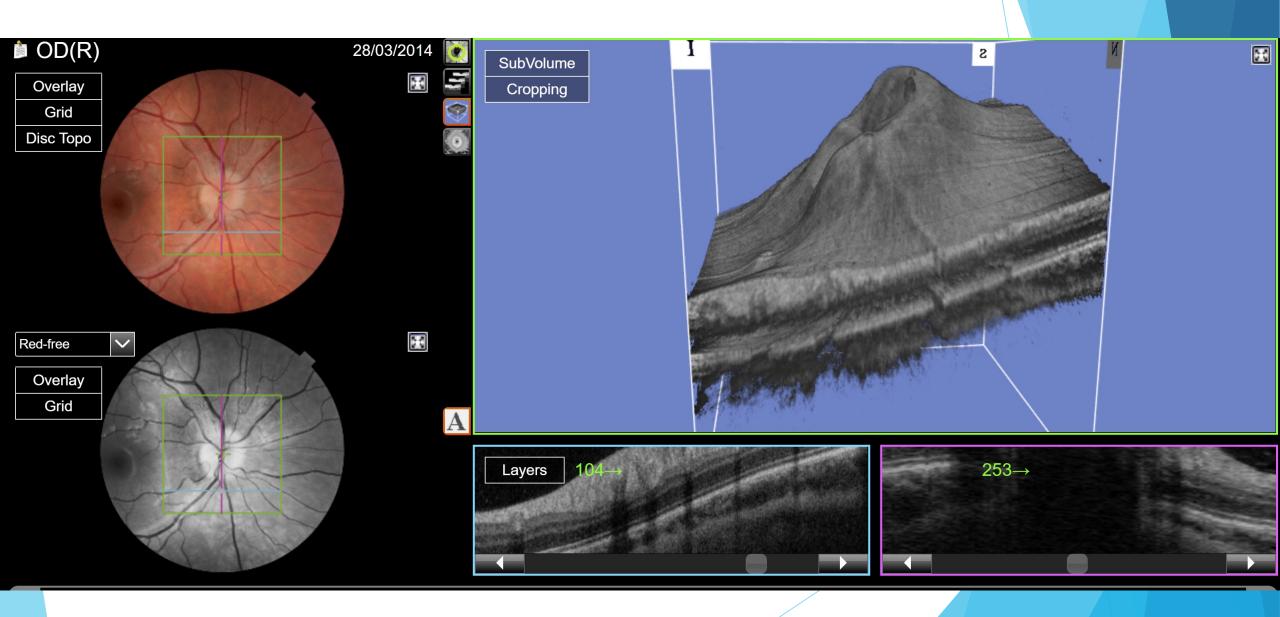
OCT(Horizontal 51 / 128)



Case 2 - Discussion

- 1. What does the red colour mean on the bilateral macula maps?
- 2. Which layers of the retina are primarily affected?
- 3. What do you think might be causing this?
- 4. What other tests might need to be done to identify this condition?



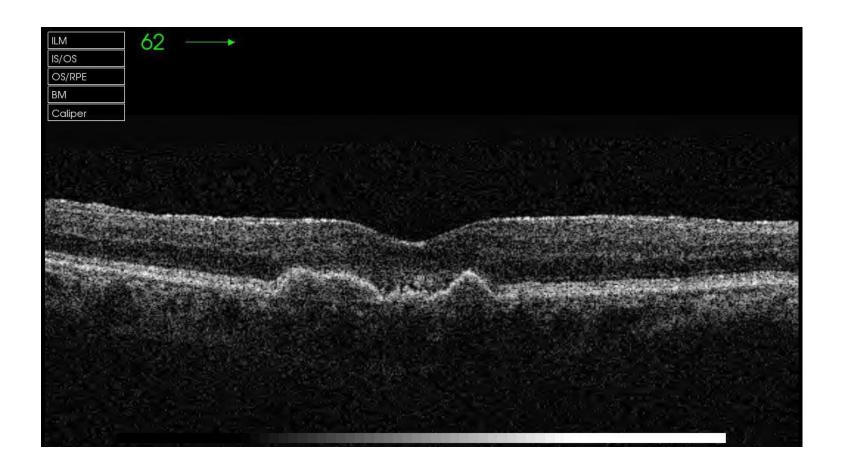


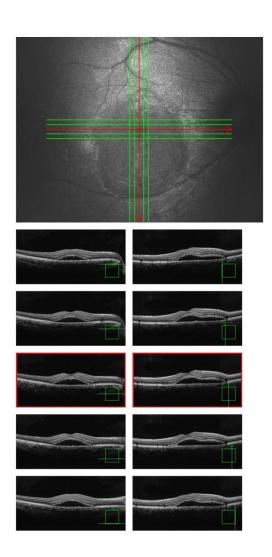
Case 3 - Discussion

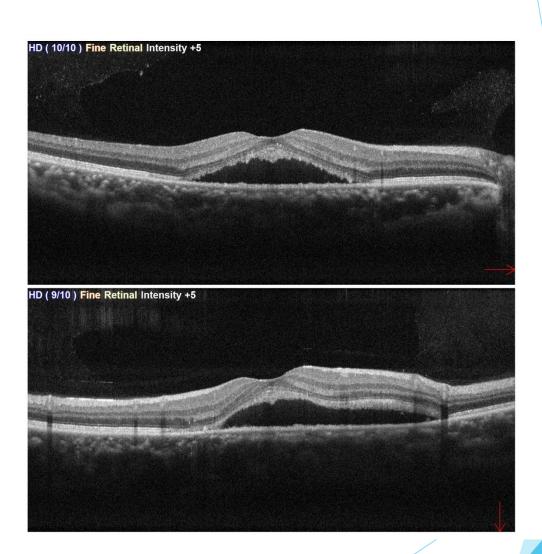
- 1. What area of the retina is the B-scan showing you?
- 2. How might you describe the structure shown in the 3D image?
- 3. What do you think this condition might be called?
- 4. Do you know what it can be confused with?
- 5. Do you know what other tests might be performed by the optometrist?

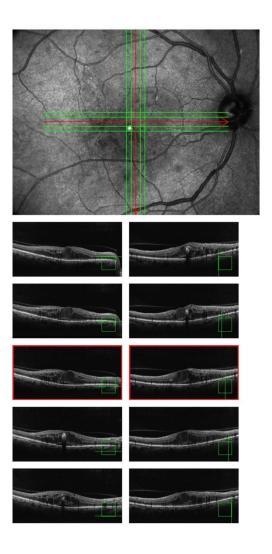
Quickfire Lesion Identification



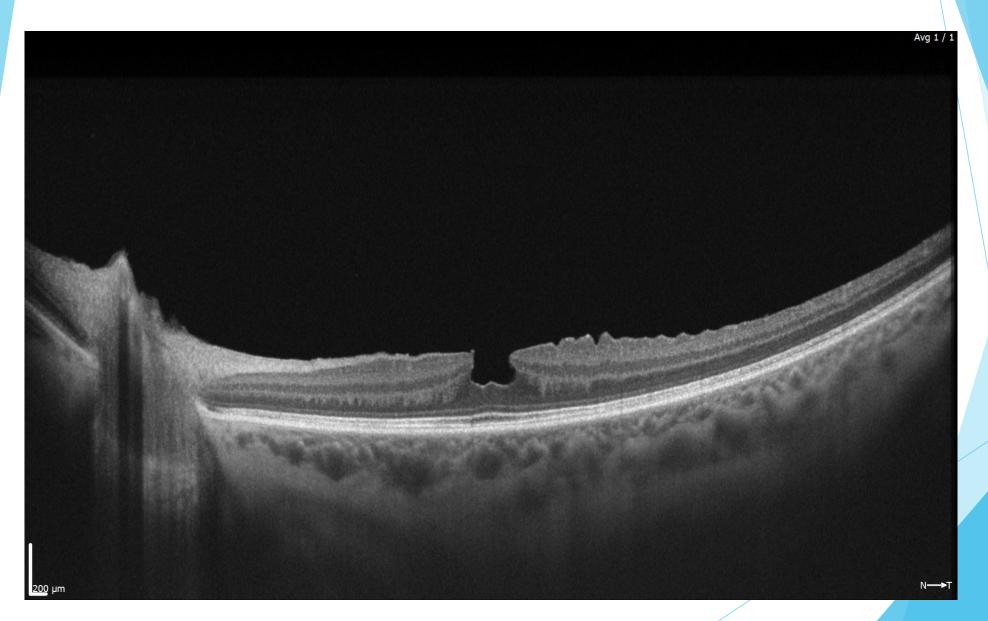


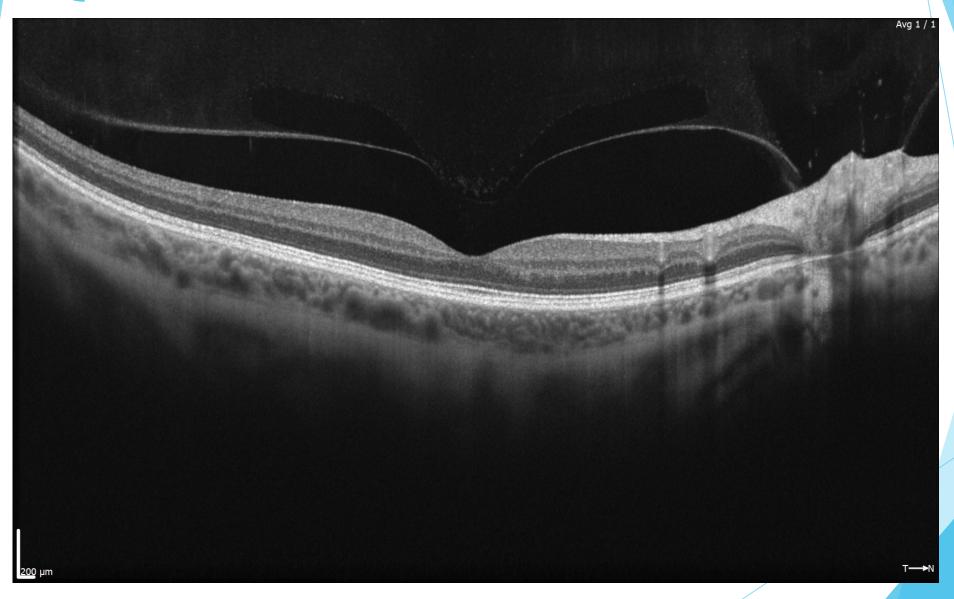


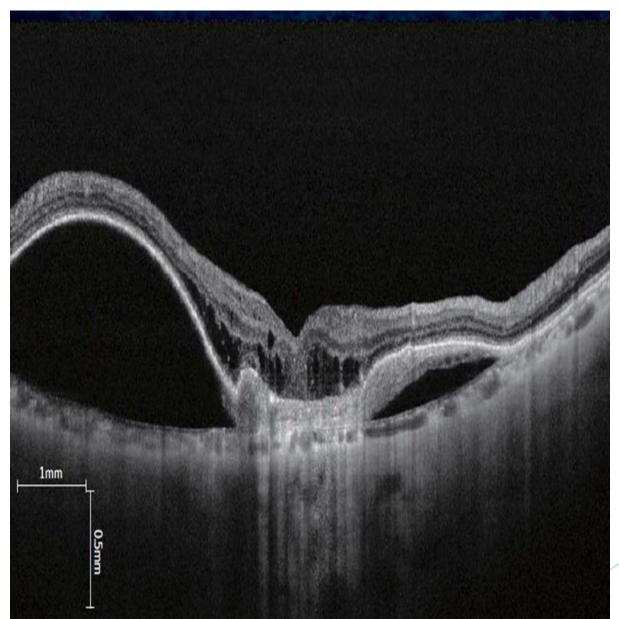


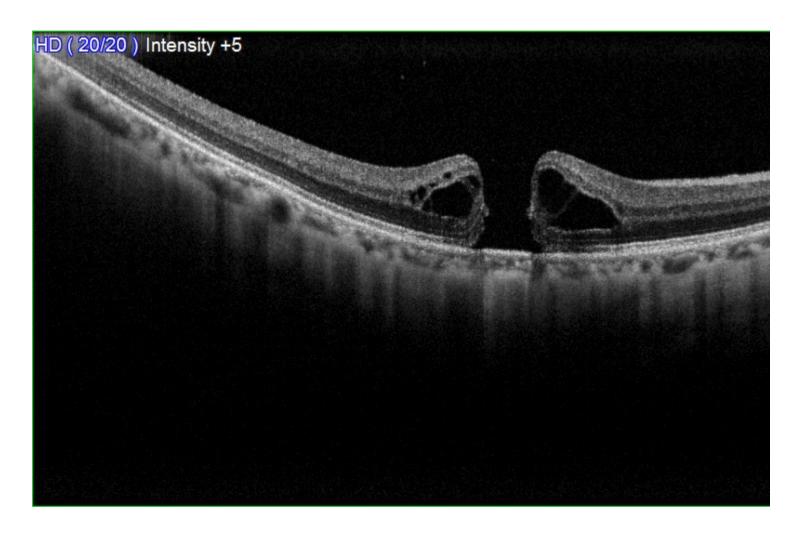


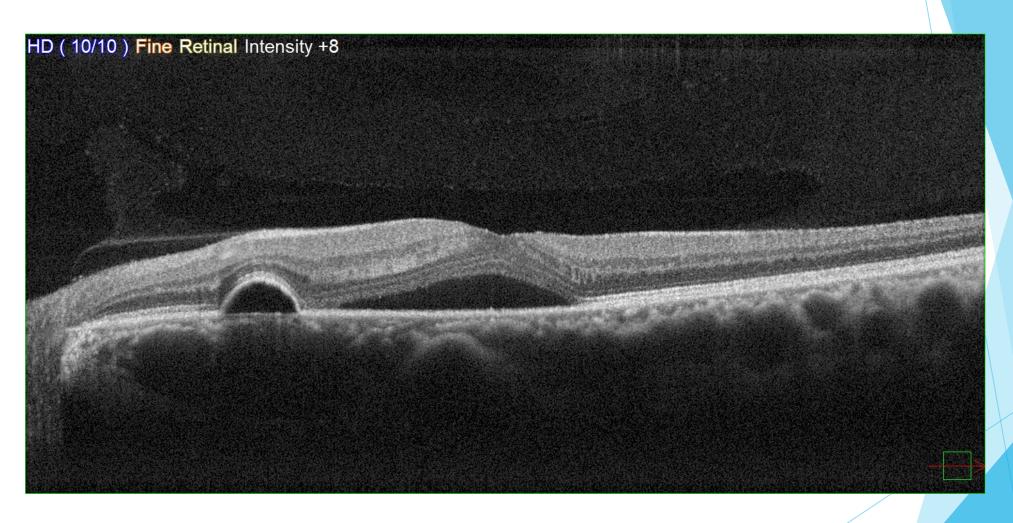


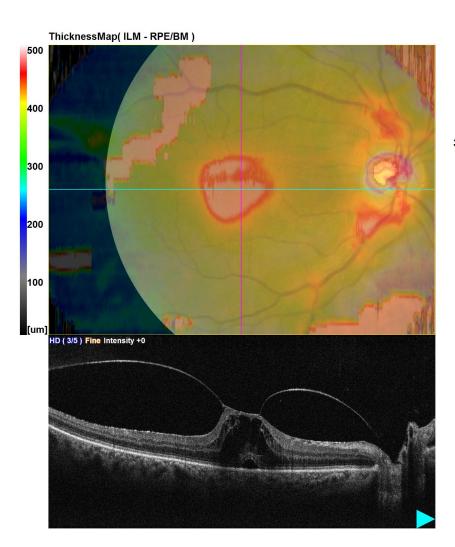






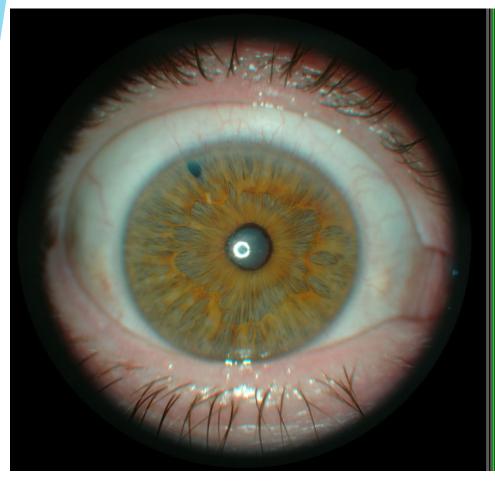


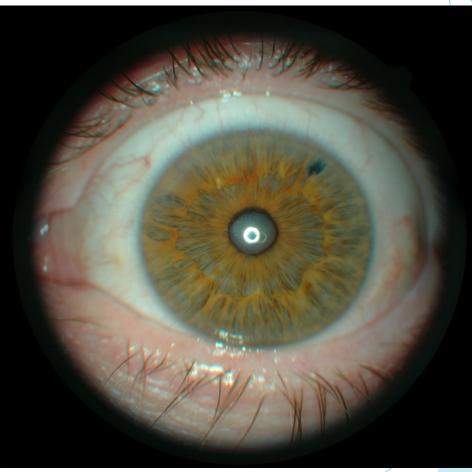


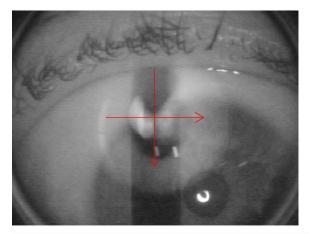


3D(Volume)

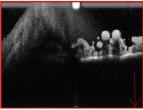






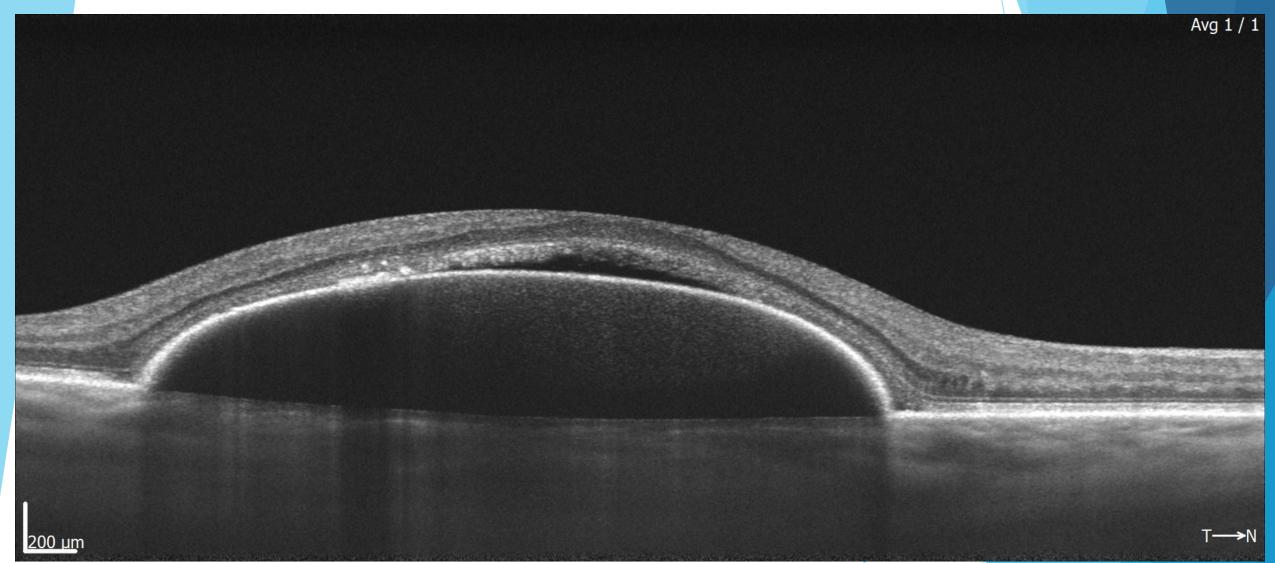












Thank you for listening

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.
- 4. D. Garway-Heath. OCT in assessing glaucoma progression. Acta Ophthalmologica 23rd September 2015.
- 5. Kuang Hu, Alison Davis, Eoin O'Sullivan. Distinguishing optic disc drusen from papilloedema. BMJ 2008; 337.
- 6. E Z Karam, T R Hedges. Optical coherence tomography of the retinal nerve fibre layer in mild papilloedema and pseudopapilloedema. BMJ Ophthalmology, Volume 89, Issue 3.

References

- 7. A. Mishraa, S.R. Mordekaral, G. Rennieb, P.S. Baxtera. False diagnosis of papilloedema and idiopathic intracranial hypertension. European Journal of Paediatric Neurology, Volume 11, Issue 1, January 2007, Pages 39-42.
- 8. H. Richard McDonald MD, William P. Verre MD, Thomas M. Aaberg MD. Surgical Management of Idiopathic Epiretinal Membranes. Ophthalmology, Volume 93, Issue 7, July 1986, Pages 978-983.
- 9. College of Optometrists Urgency of referrals