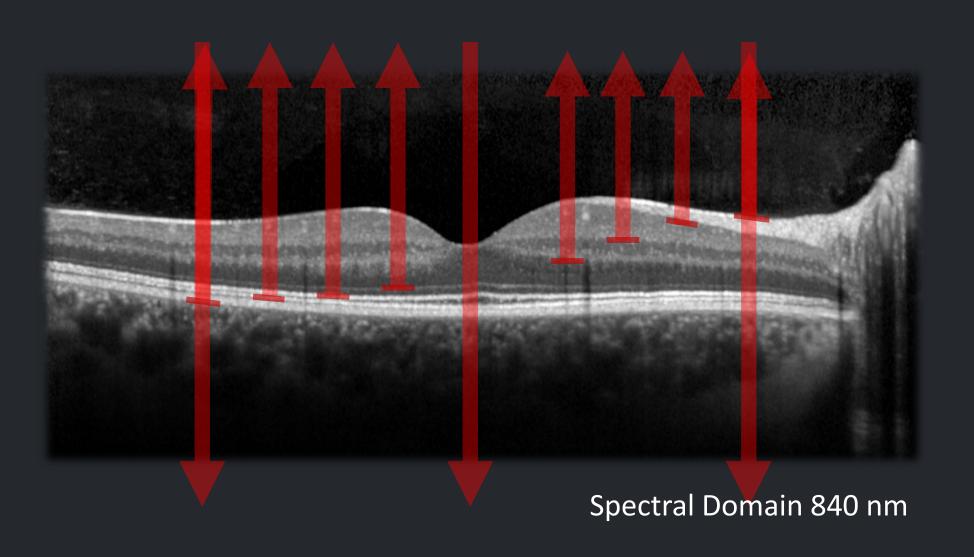
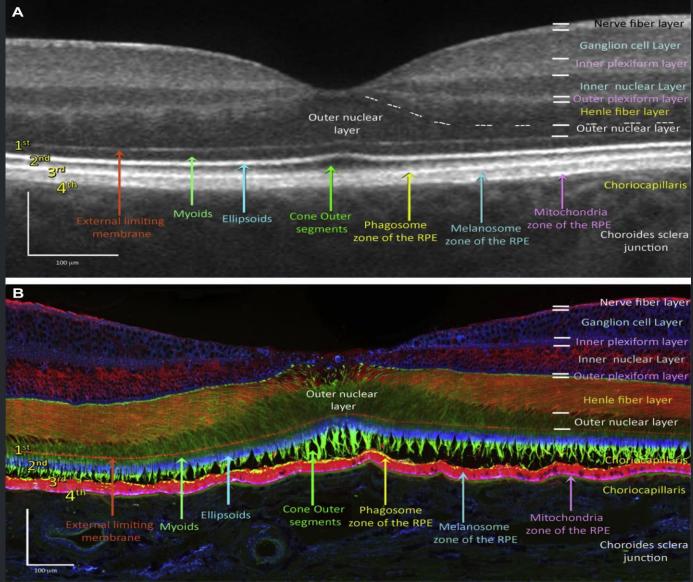






OCT diagnosis

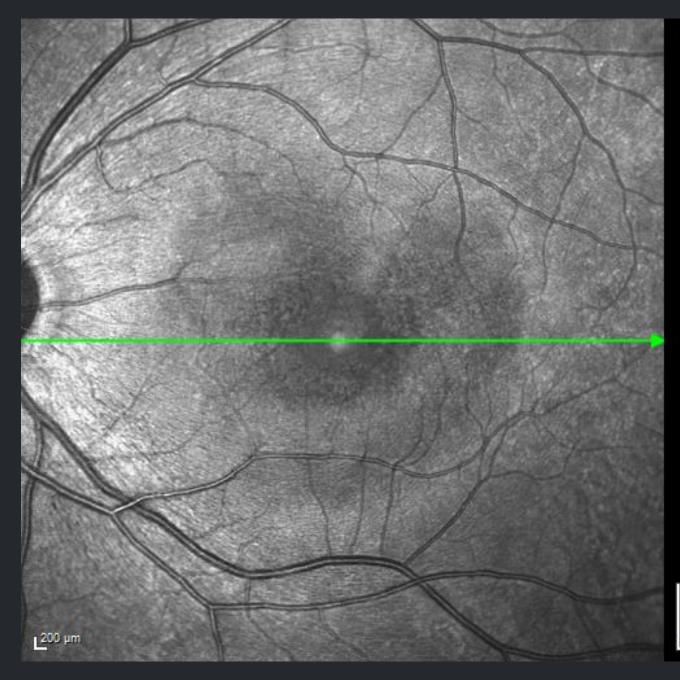


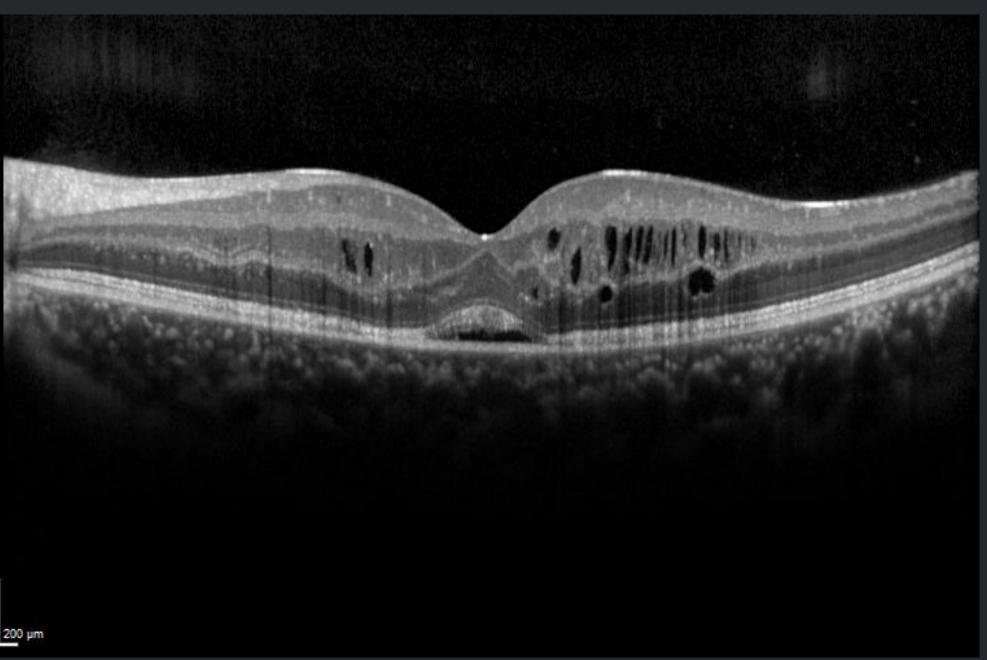


Cellular Characterization of OCT and Outer Retinal Bands Using Specific Immunohistochemistry Markers and Clinical Implications: NicolásCuencaPhD sabelOrtuño-LizaránBSc IsabelPinillaMD, PhD



OCT diagnosis IRF / SRF

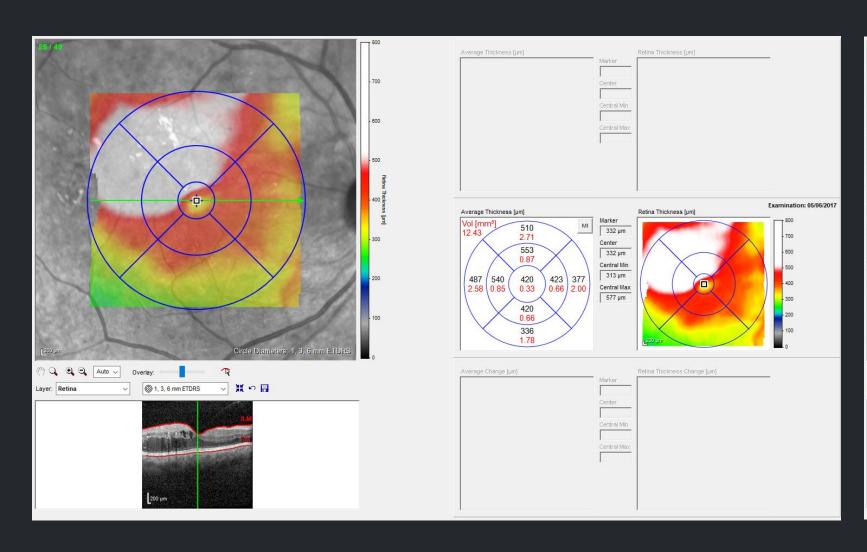


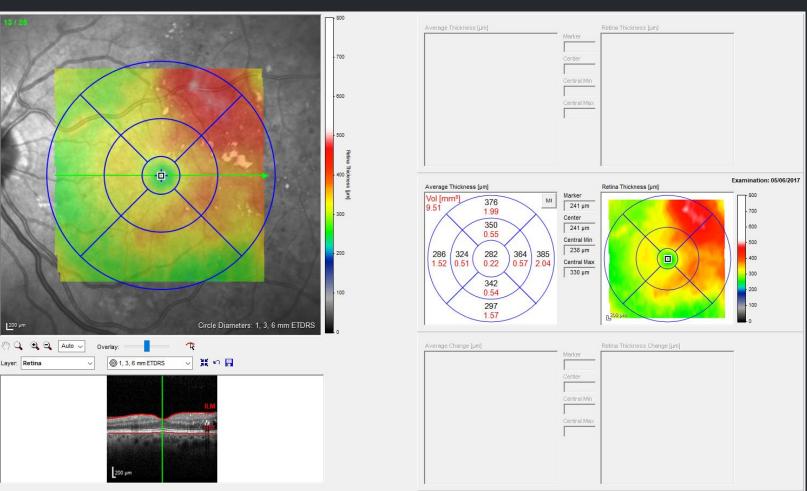






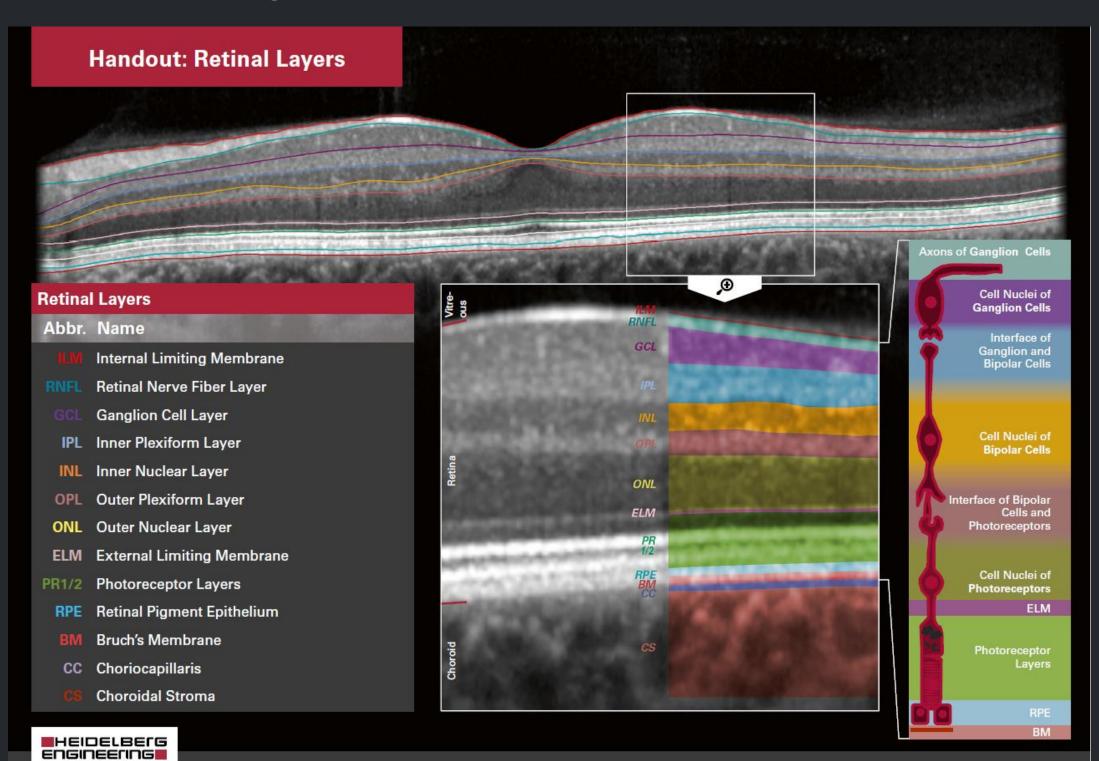
OCT diagnosis ETDRS thickness grid

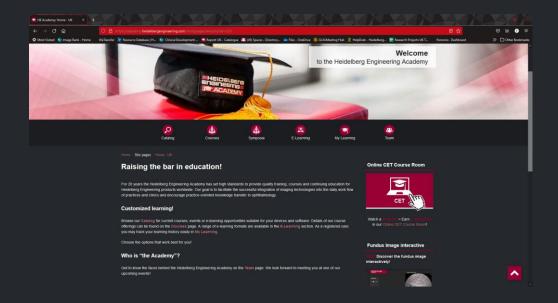




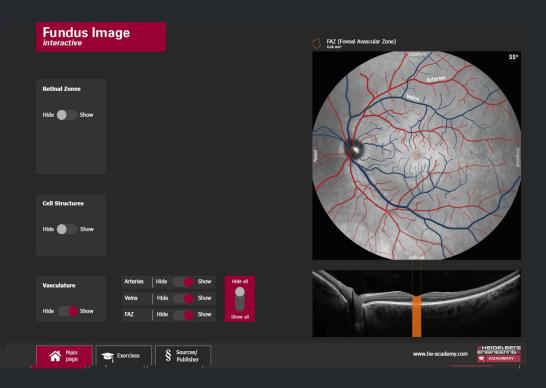


OCT diagnosis Layers





https://academy.heidelbergengineering.com







ACADEMY

NSC Grading Criteria - Minimum Data Set

Level R0 - None

Level R1 - Background

- microaneurysm(s)
- retinal haemorrhage(s) ± any exudate

Level R2 - Pre-proliferative

- venous beading
- venous loop or reduplication
- intraretinal microvascular abnormality (IRMA)
- multiple deep, round or blot haemorrhages

(CWS - careful search for above features)

Level R3 - Proliferative

- new vessels on disc (NVD)
- new vessels elsewhere (NVE)
- pre-retinal or vitreous haemorrhage
- pre-retinal fibrosis ± tractional retinal detachment

Maculopathy (M)

- exudate within 1 disc diameter (DD) of the centre of the fovea
- · circinate or group of exudates within the macula
- retinal thickening within 1DD of the centre of the fovea (if stereo available)
- any microaneurysm or haemorrhage within 1 DD of the centre of the fovea only if associated with a best VA of ≤ 6/12 (if no stereo)

Photocoagulation (P)

- focal/grid to macula
- peripheral scatter

Unclassifiable (U)

Ungradable/unobtainable

NSC Proposed Management Criteria

R0 Annual screening

R1 Annual screening, inform diabetes care team

R2 Refer to hospital eye service

R3 Fast-track referral to hospital eye service

Maculopathy (M)

M1 Refer to hospital eye service

Photocoagulation (P)

P1 New screenee - refer to hospital eye service

P2 Quiescent post treatment - annual

screening

Other lesions (OL)

Refer to hospital eye service or inform primary physician

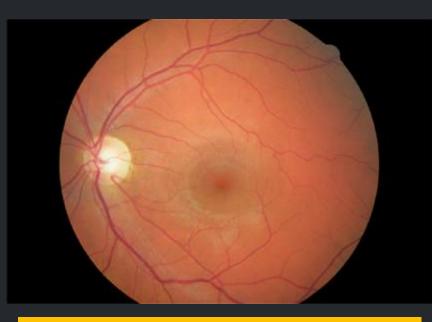
Ungradable/unobtainable (U)

Media opacity hospital eye service

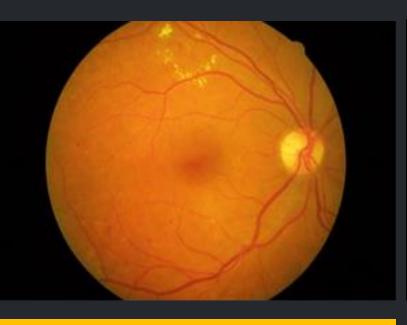
Unscreenable

discharge, inform GP (option to recall for further photos if purely technical failure)

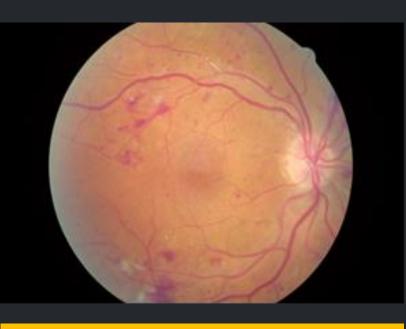




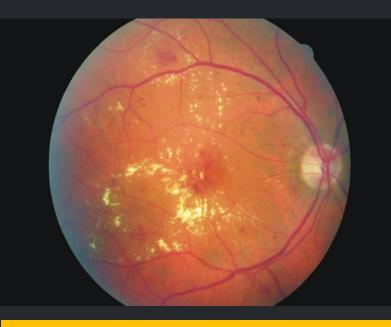
Normal retina with no diabetic retinopathy - NSC grade R0



Background diabetic retinopathy with MA haemorrhages and exudates – NSC grade R1



Pre-proliferative diabetic retinopathy with CWS, IRMA and multiple blot haemorrhages –NSC R2



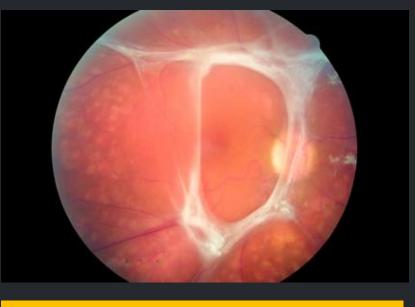
Diabetic maculopathy with haemorrhages and circinate exudates – NSC grade M



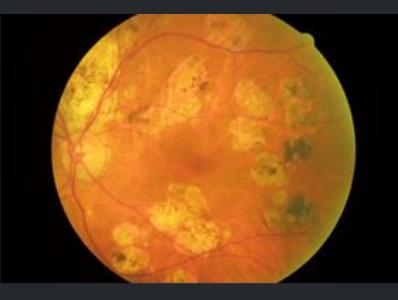
Proliferative diabetic retinopathy with new vessels at the optic disc NVD – NSC grade



Proliferative diabetic retinopathy with preretinal and vitreous haemorrhages – NSC grade R3



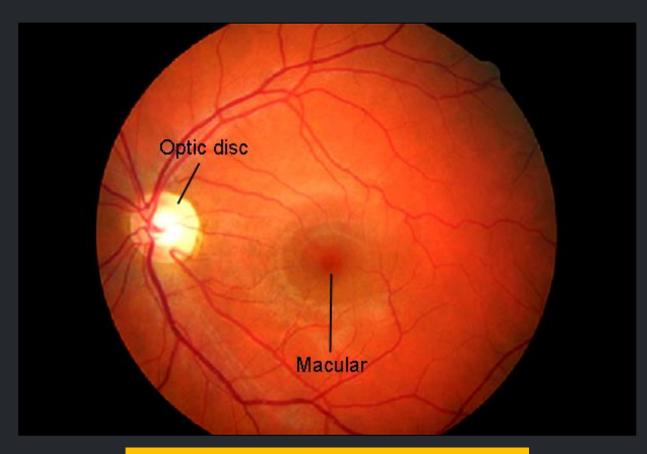
Proliferative diabetic retinopathy with fibrous proliferation – NSC grade R3



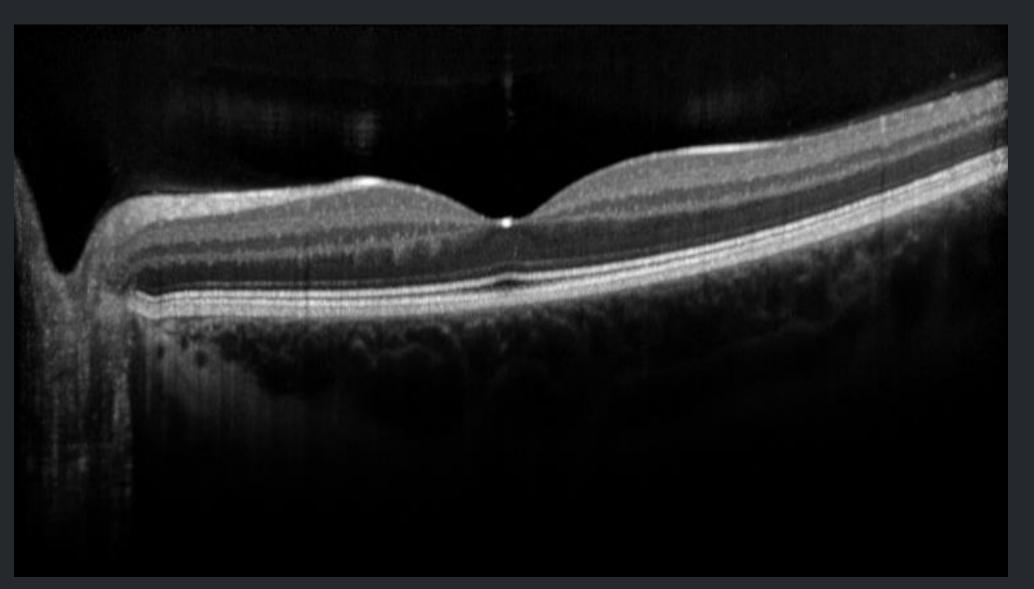
Evidence of previous laser therapy – NSC grade P





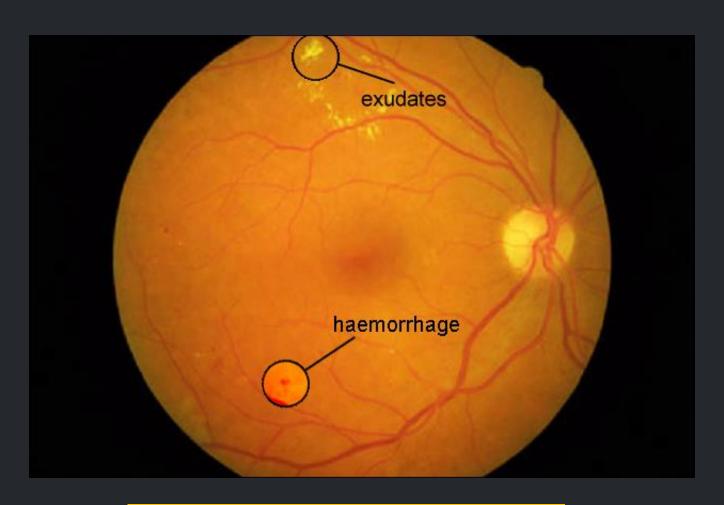


Normal retina with no diabetic retinopathy - NSC grade R0

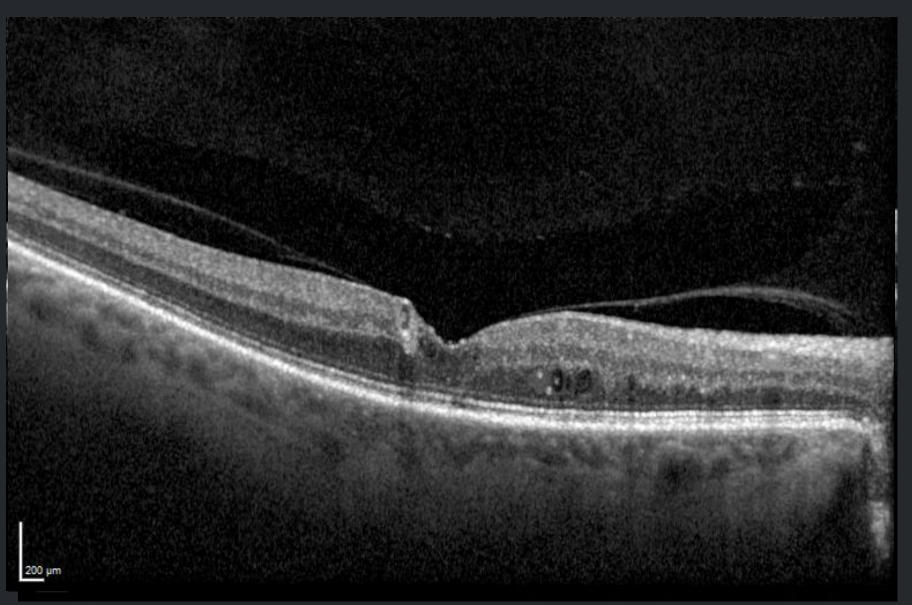








Background diabetic retinopathy with MA haemorrhages and exudates – NSC grade R1





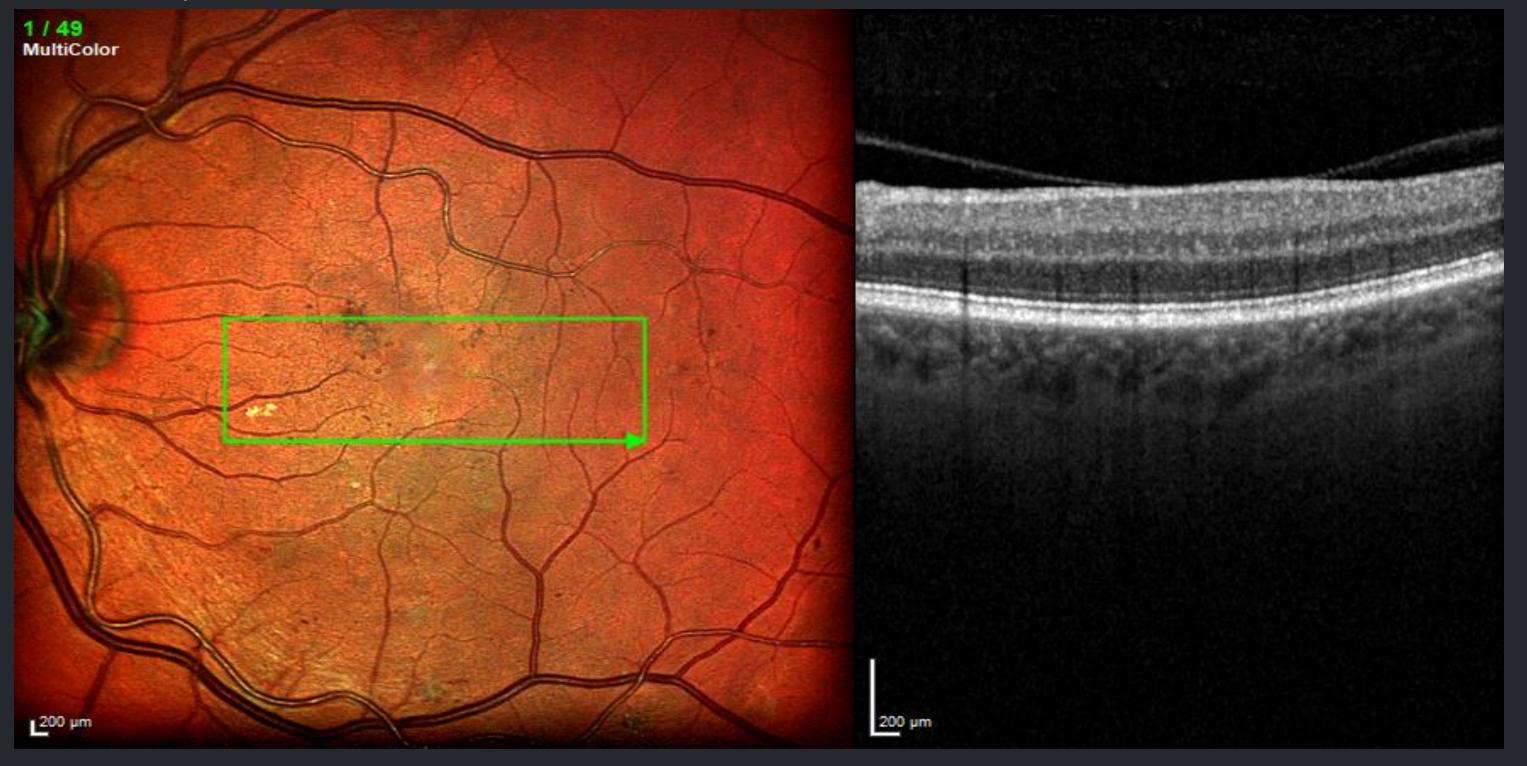






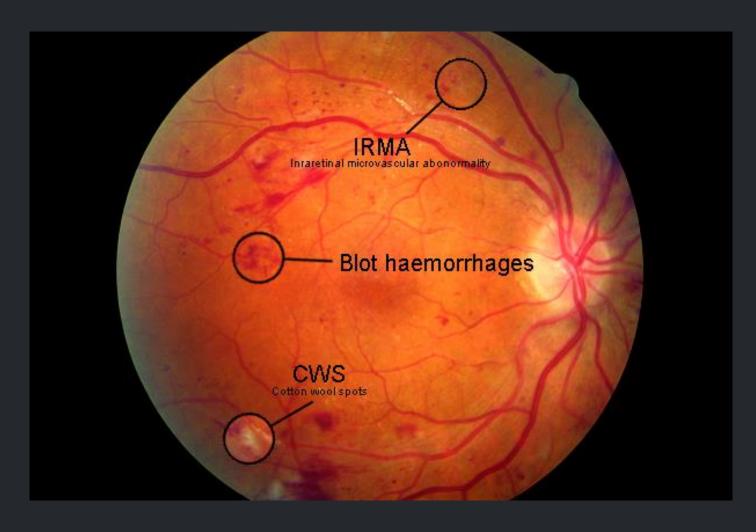


Level R2 - Pre-proliferative

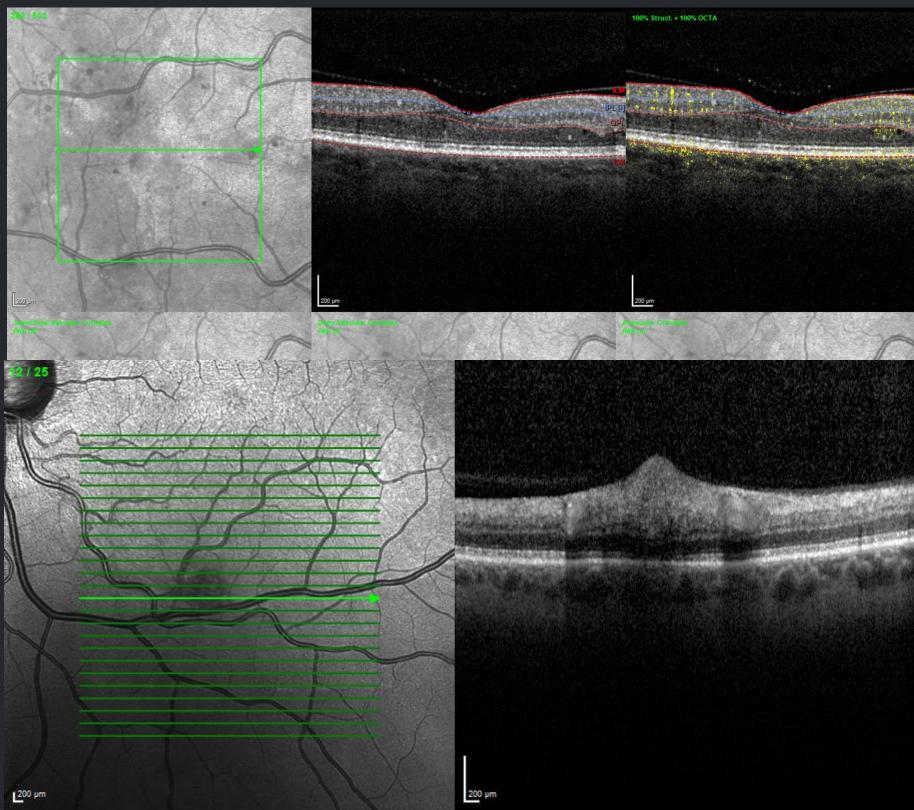


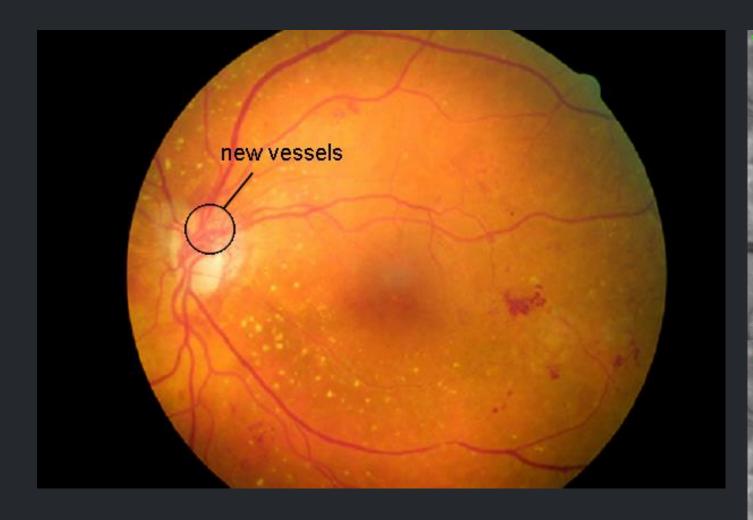


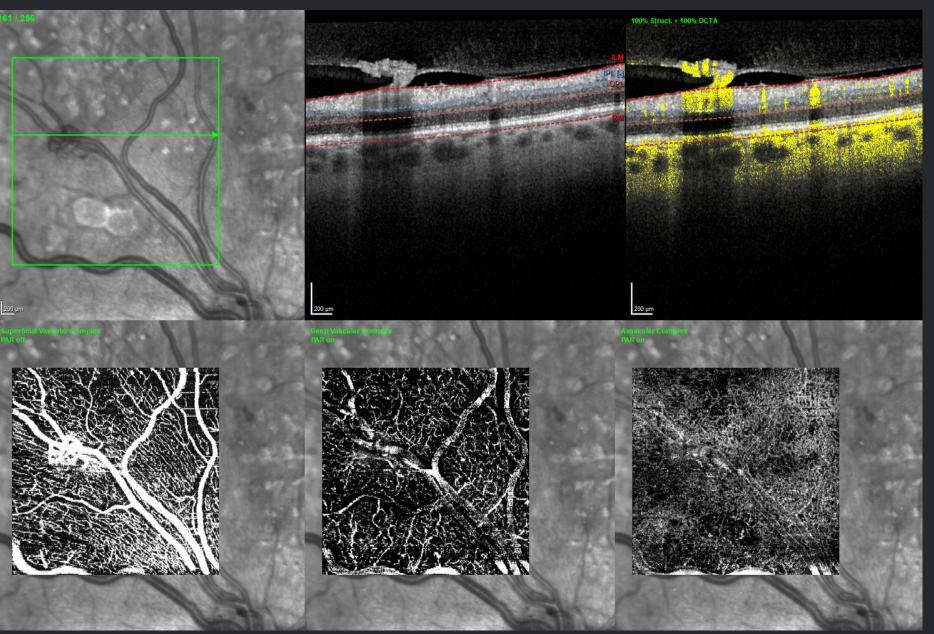




Pre-proliferative diabetic retinopathy with CWS, IRMA and multiple blot haemorrhages –NSC R2

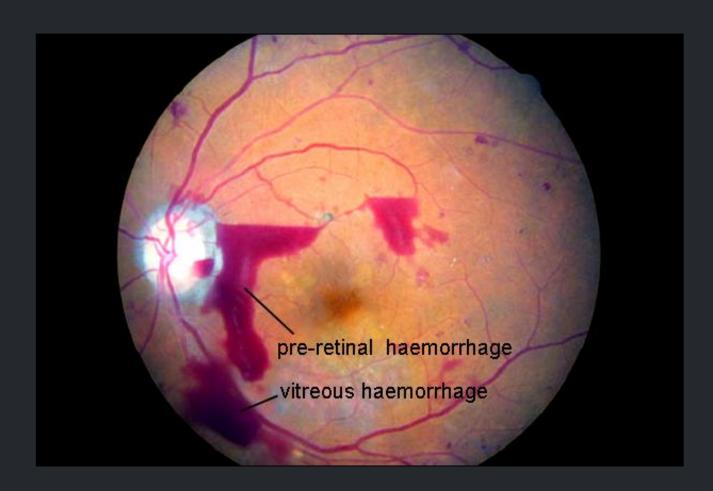












Proliferative diabetic retinopathy with preretinal and vitreous haemorrhages – NSC grade R3

