



# Amber Priority



Image Library

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# Amber flag

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- ▶ Diabetic Maculopathy (M1)
  - ▶ Pre-proliferative Diabetic Retinopathy (R2)
  - ▶ Old, treated and now inactive DR (R1/M0/P1 or R0/M0/P1)
  - ▶ Where only partial or incomplete images can be achieved
  - ▶ Other ocular conditions with retinal signs
  - ▶ **ALWAYS MAKE NOTES TO INFORM THE PROGRAMME WHY YOU HAVE FLAGGED AS AMBER**
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# Diabetic Maculopathy (M1)

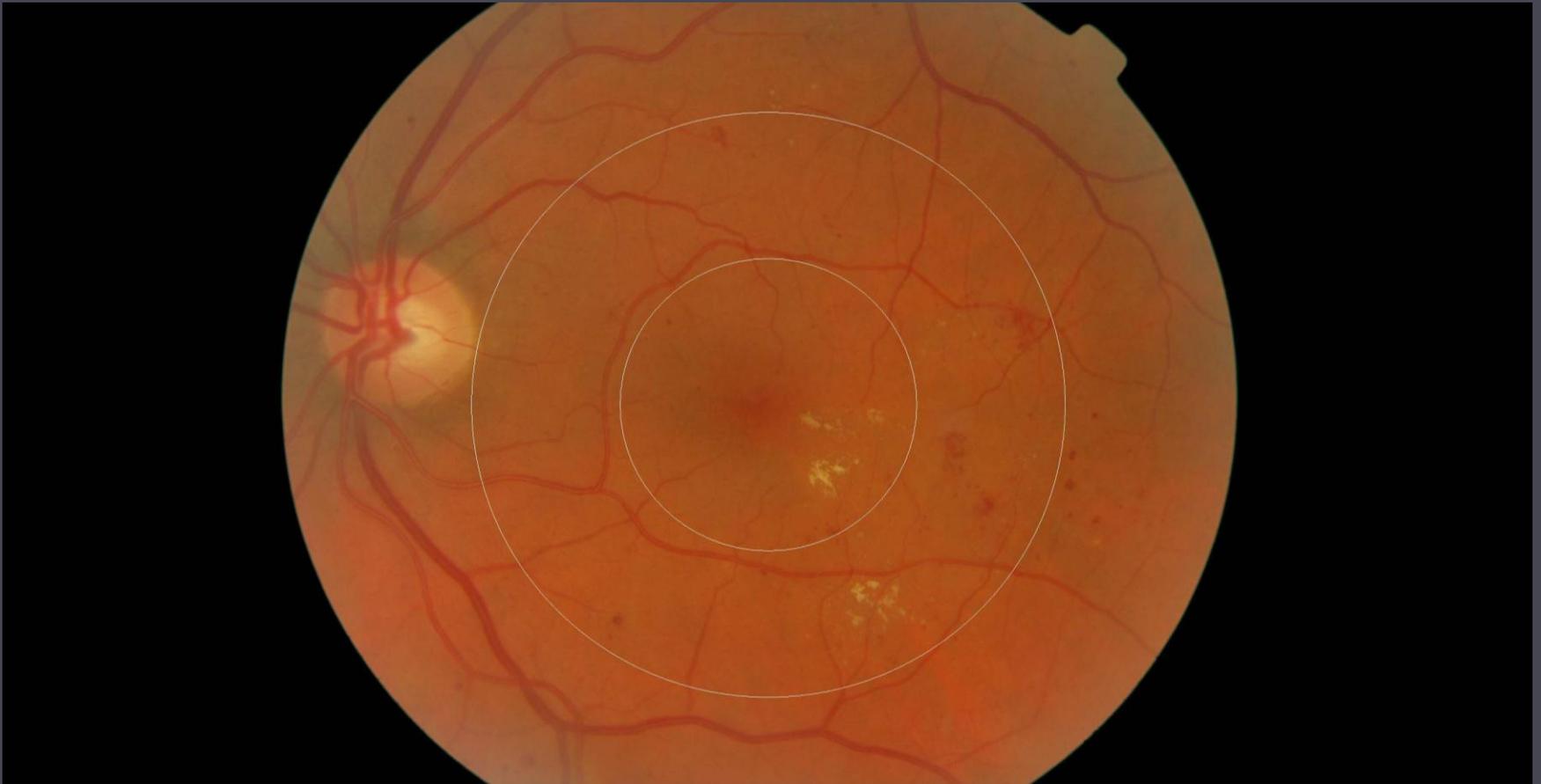
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- ▶ Exudates within macula
- ▶ Flag as amber if any exudates at all on macular image
- ▶ If unsure whether they are drusen, still flag as amber
- ▶ Blood spot within 1 disc diameter (DD) of the fovea with a VA of +0.30 or worse
- ▶ Usually significant background diabetic retinopathy (BDR) as well



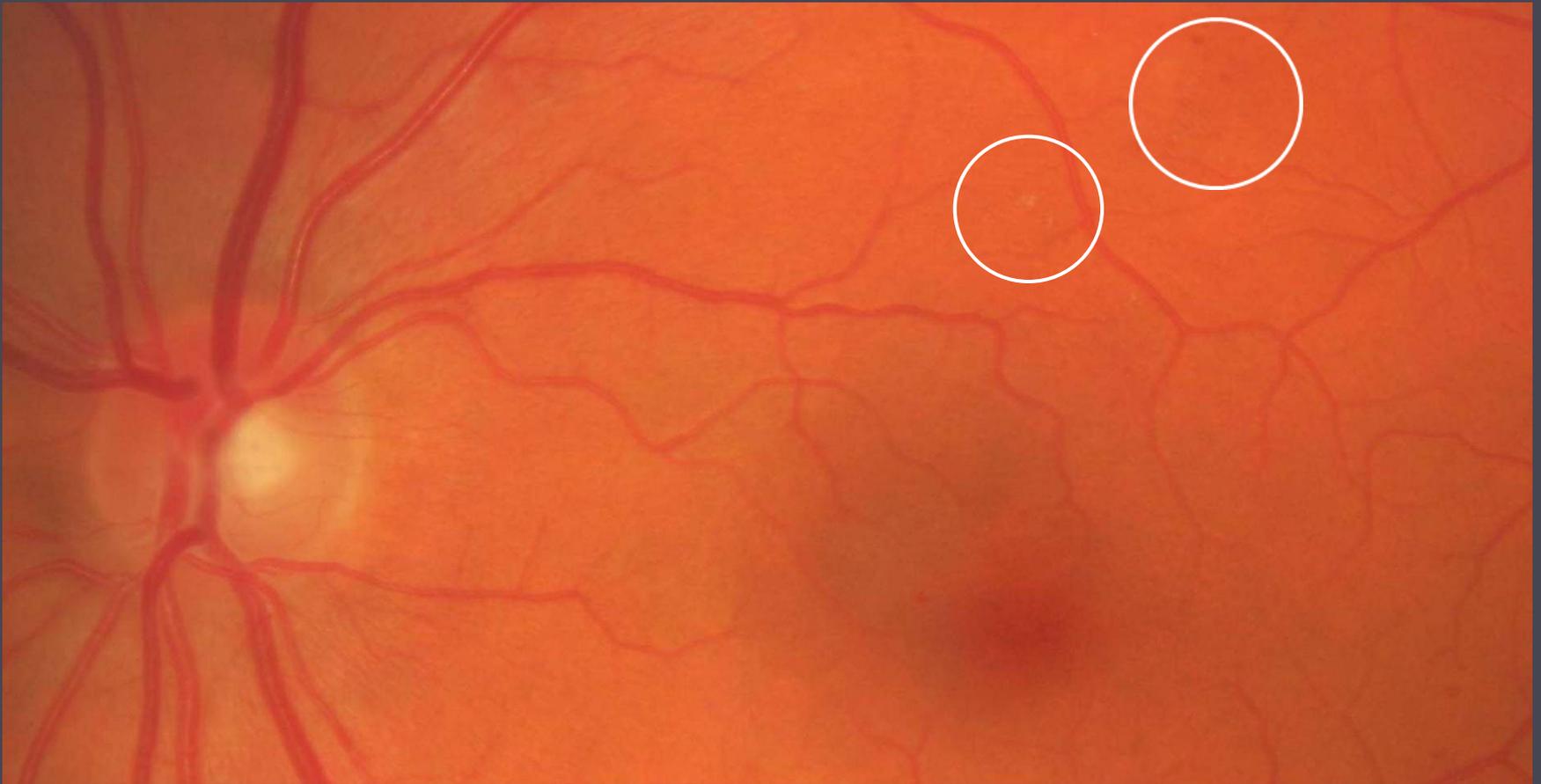
# Exudates

Inner Circle: <math>\leq</math>IDD; Outer Circle: rough confines of the macula



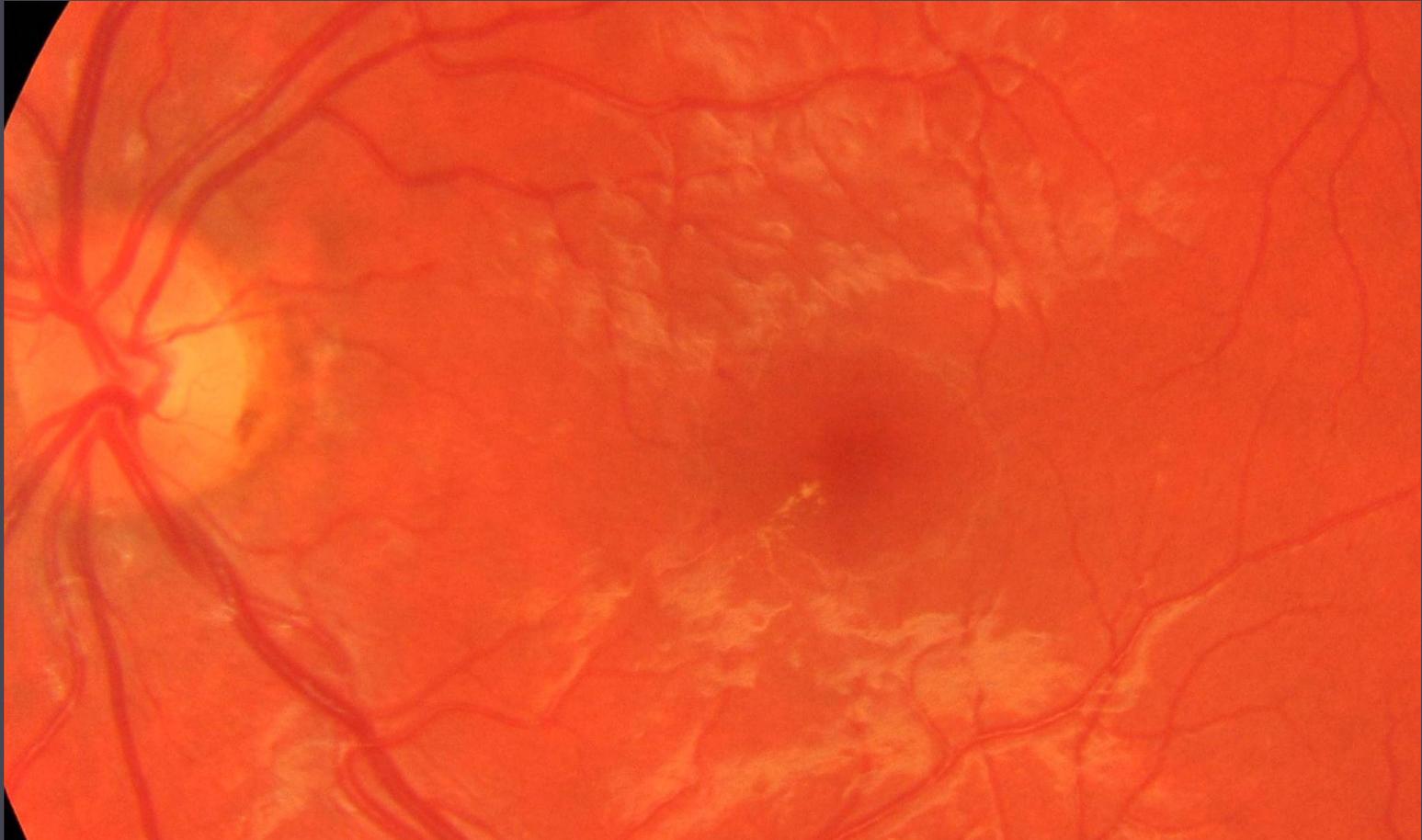
# Subtle Exudates

Within 1 DD of fovea

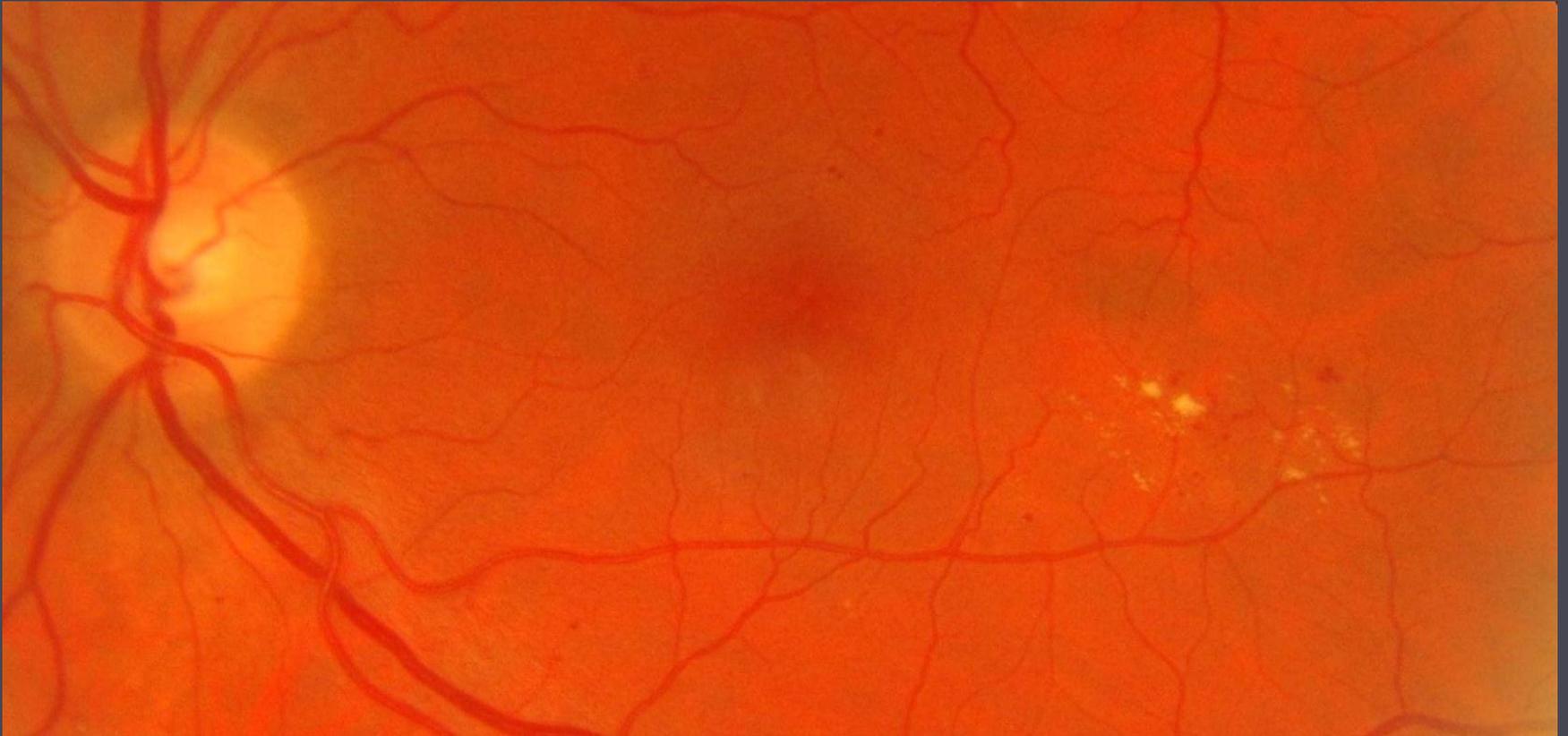


## Para-foveal exudate

VA still good; Younger patient with prominent surface reflexes



# Exudate patch



Exudates, trailing towards fovea



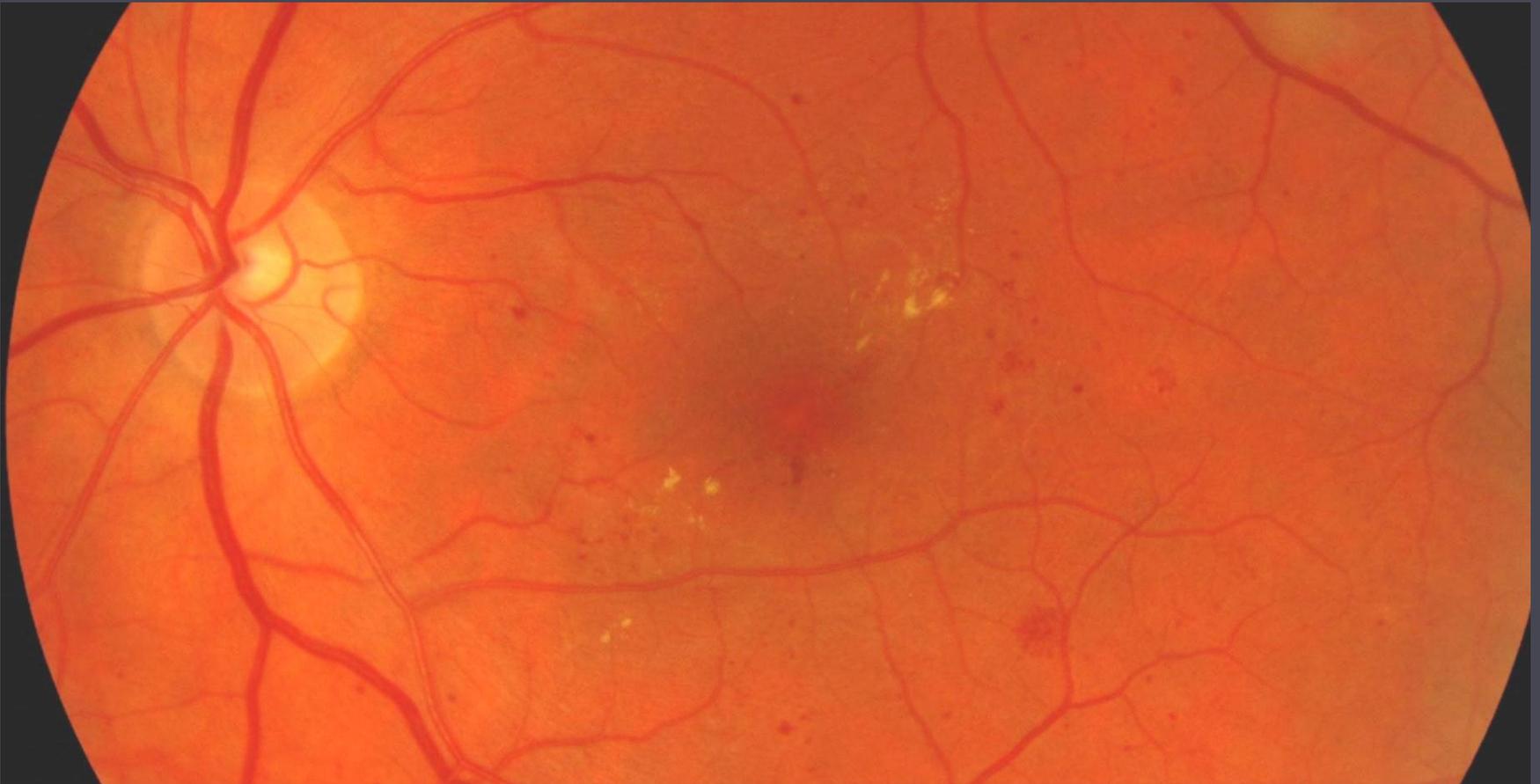
# Exudates

Multiple exudate patches



# Exudates

Fellow eye; Note larger blot haemorrhages as well



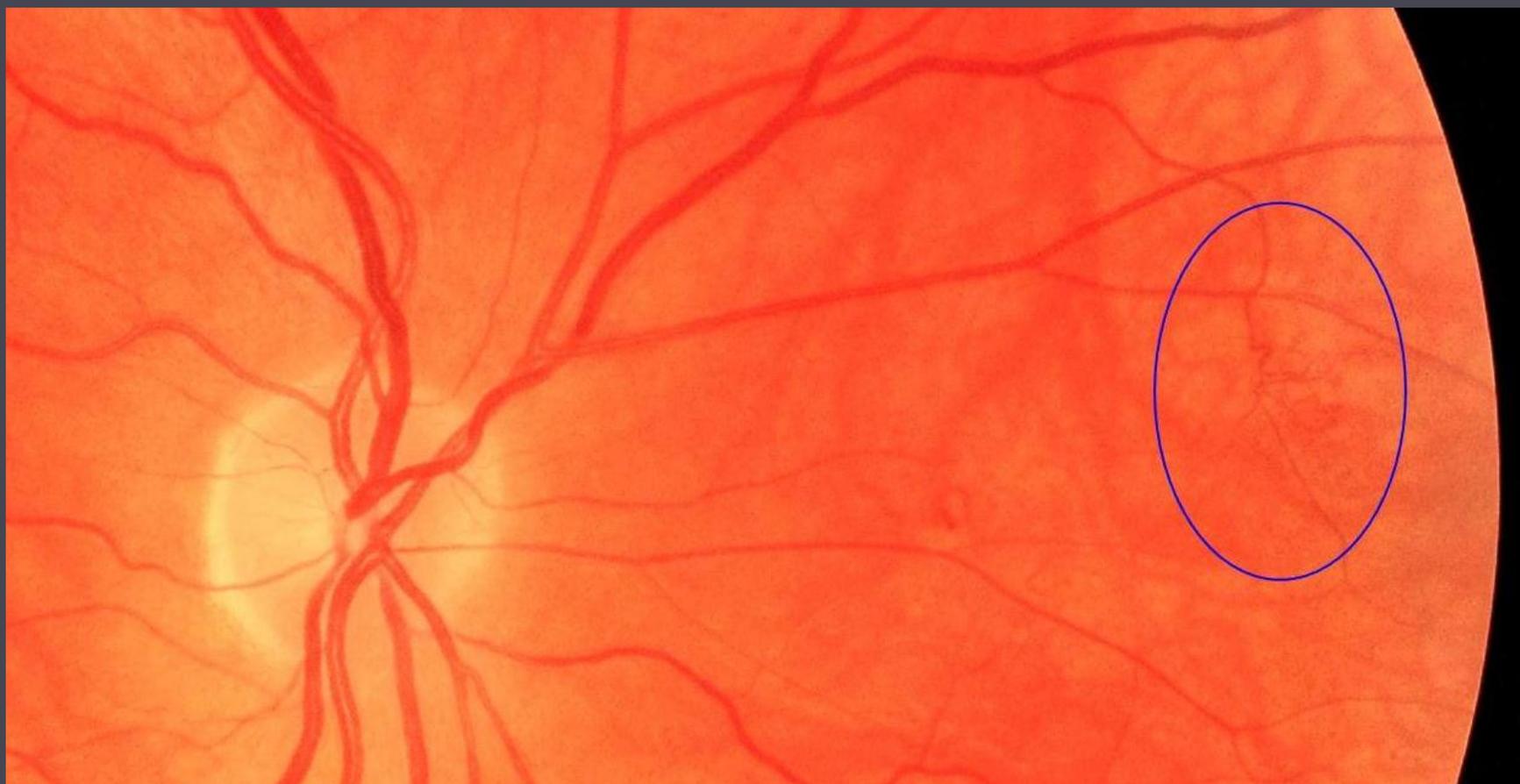
# Pre-proliferative DR (R2)

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- ▶ **Multiple blot haemorrhages**
  - ▶ Flag as amber if there are more than 5 blood spots visible or more than one large haemorrhage
- ▶ **Vessel changes**
  - ▶ Flag as amber if there are any unusual vessels
  - ▶ Intra-retinal Micro vascular anomaly (IRMA)
  - ▶ Venous Beading
  - ▶ Venous reduplication
- ▶ **Cotton wool spots**
  - ▶ Flag as amber if there are any white, fluffy lesions



Nasal to disc; Classic position



Subtle, but note significant BDR and Cotton-wool spot nearby



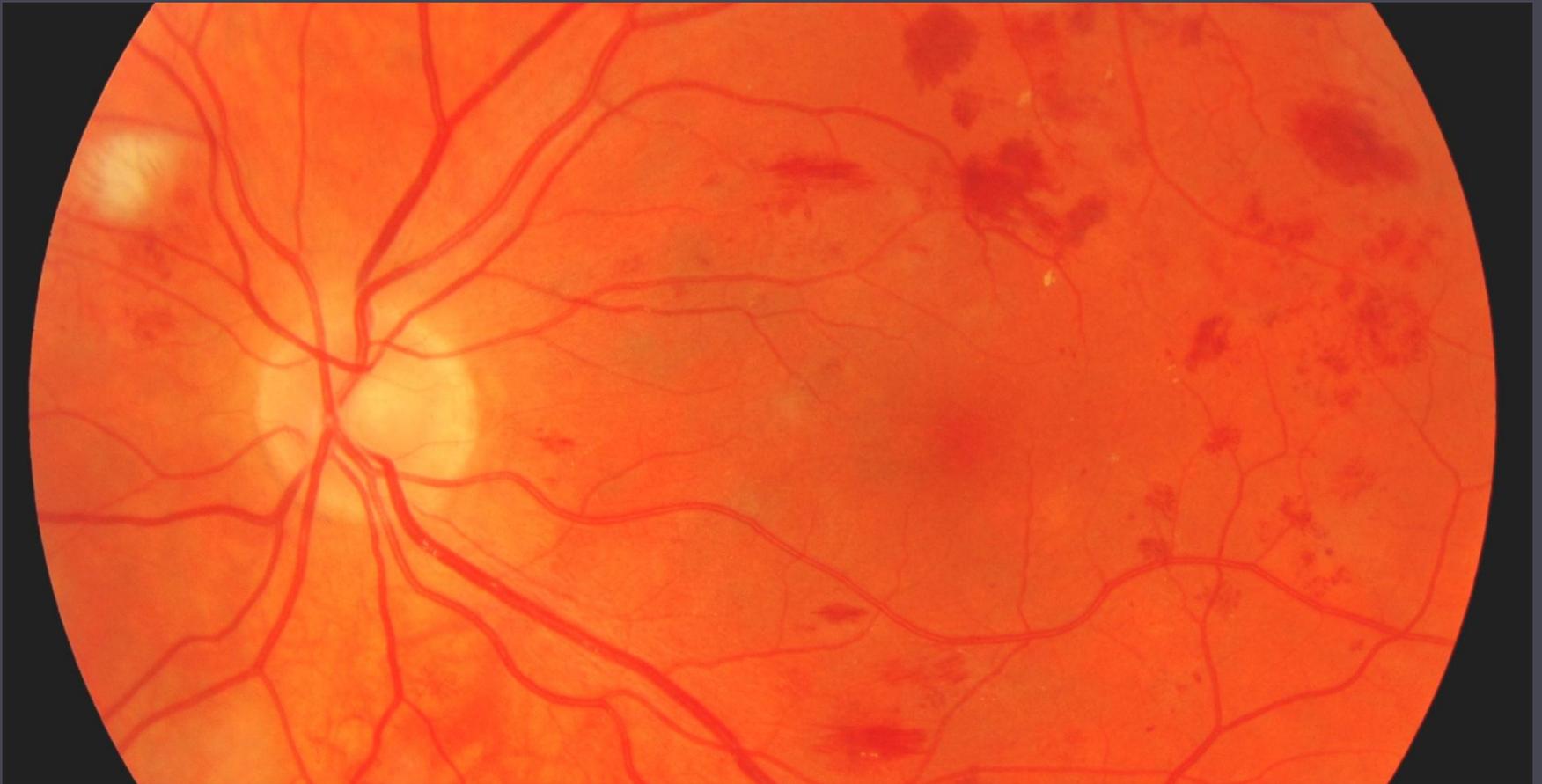
## Larger and more numerous haemorrhages

Note some blots centrally; More significant DR



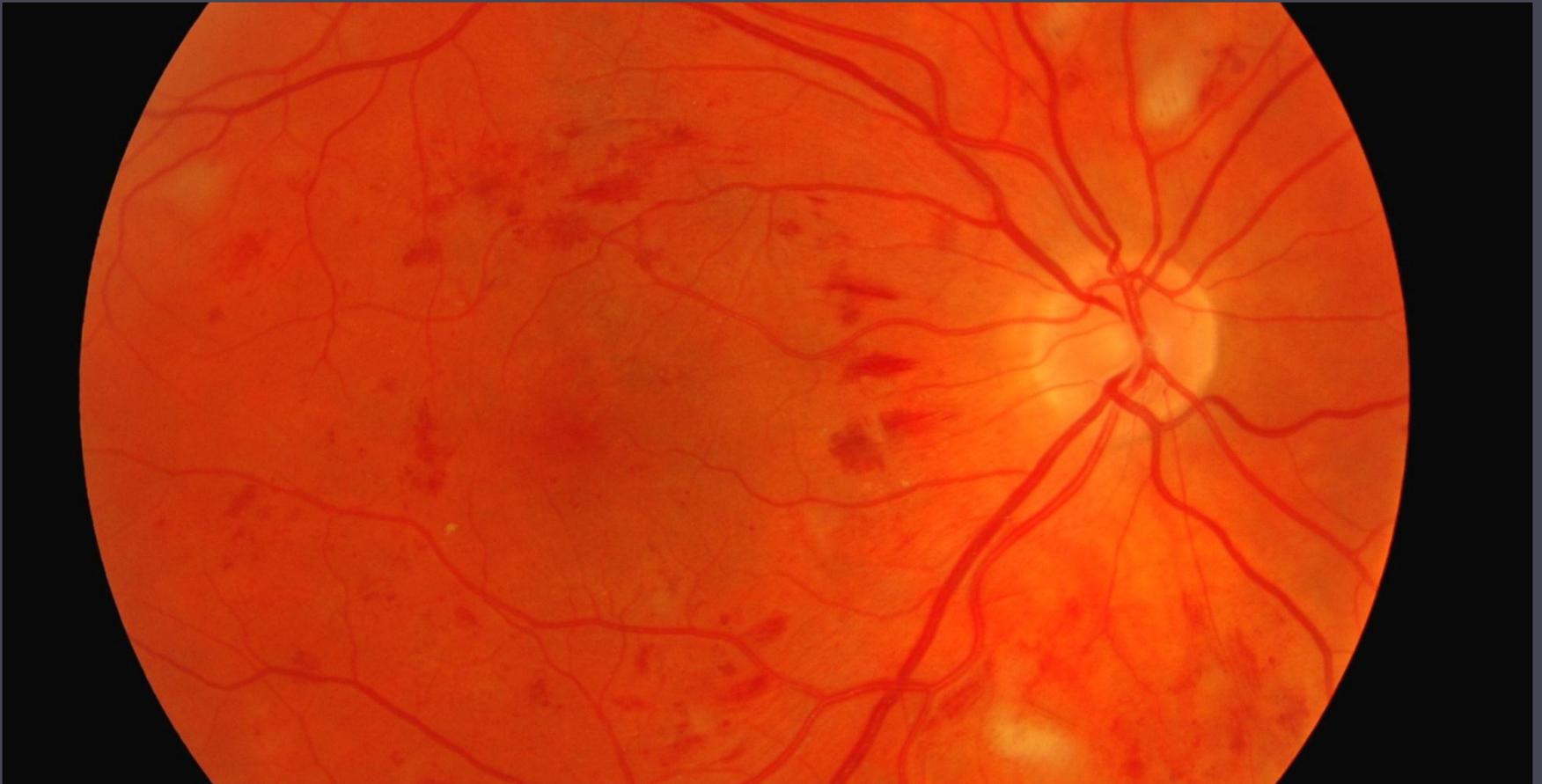
# Multiple blots and CWS

Also, exudates



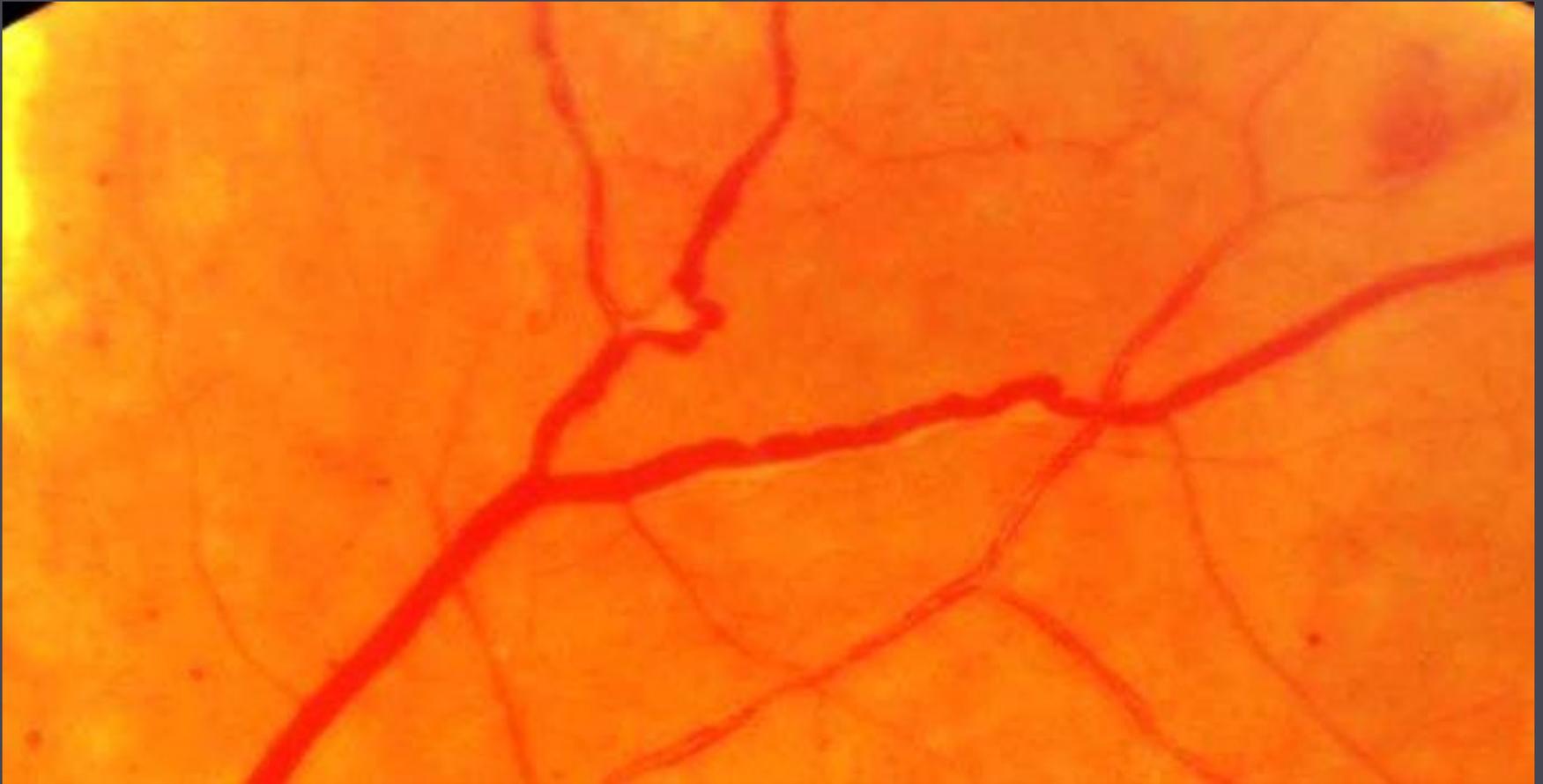
# Multiple blots and cotton wool spots

Also exudate



# Venous Beading

Note narrowing of vessel as well



## Multiple nasal vessel changes

Several IRMA, beading, venous dilatation, narrowing and sheathing

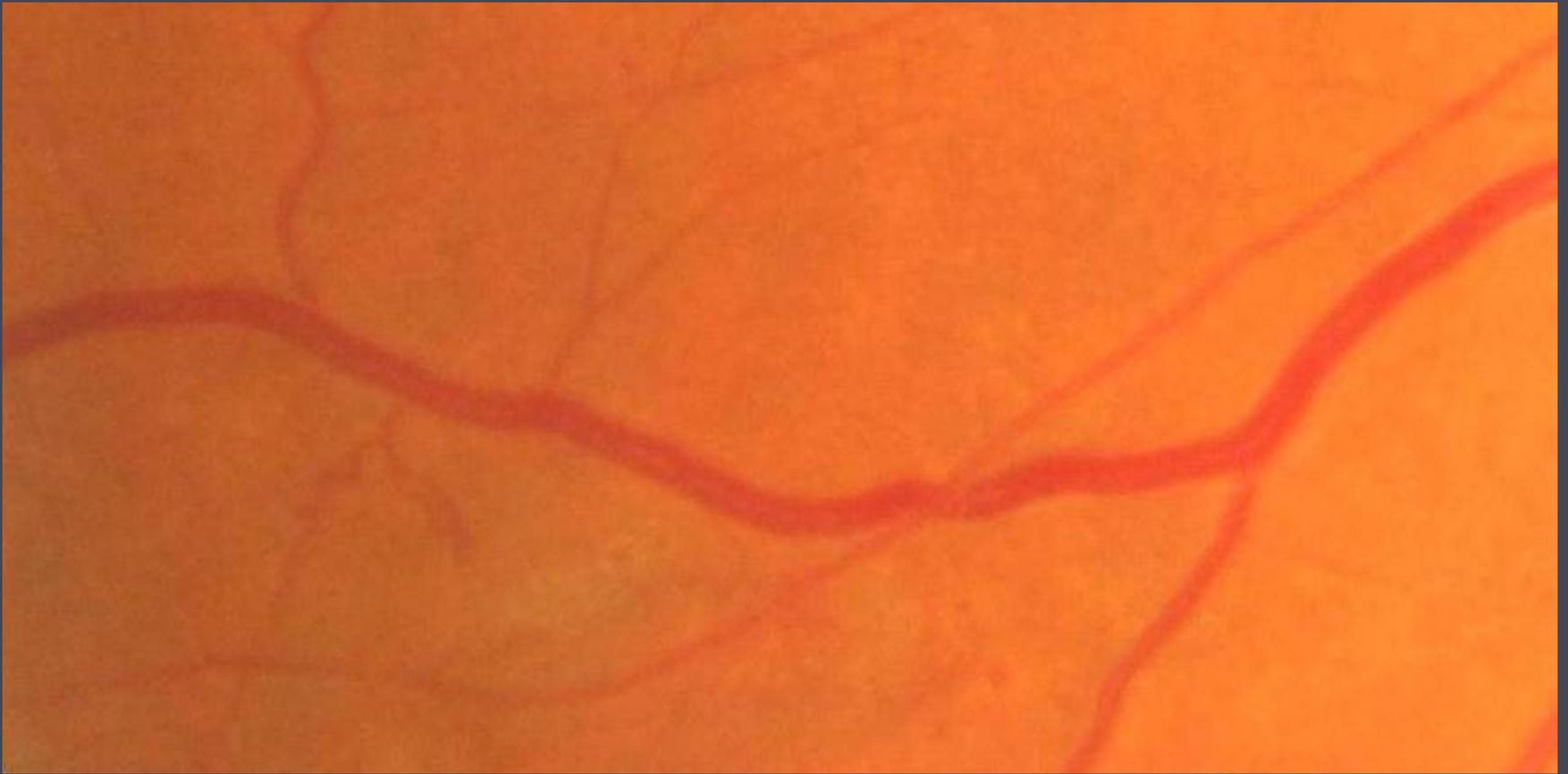


## Reduplication with early beading



# Reduplication

In more detail



# Old laser scars

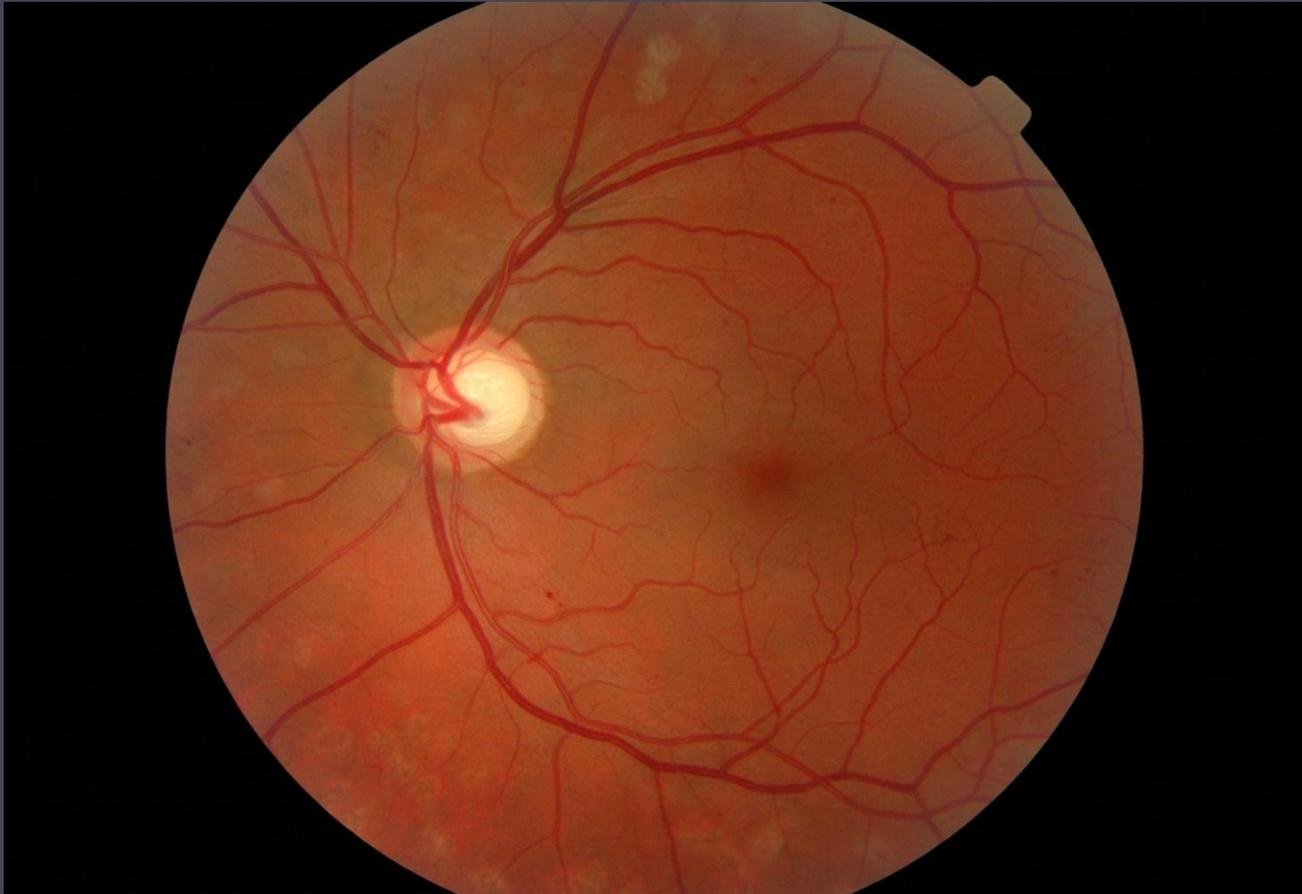
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- ▶ Always flag at least as amber if there are any signs of old laser scars on any images
- ▶ If there also appears to be New vessels or fibrosis:
  - ▶ Flag as Red
  - ▶ Follow the reporting protocol for red cases in Section 13 of the Screening Protocol



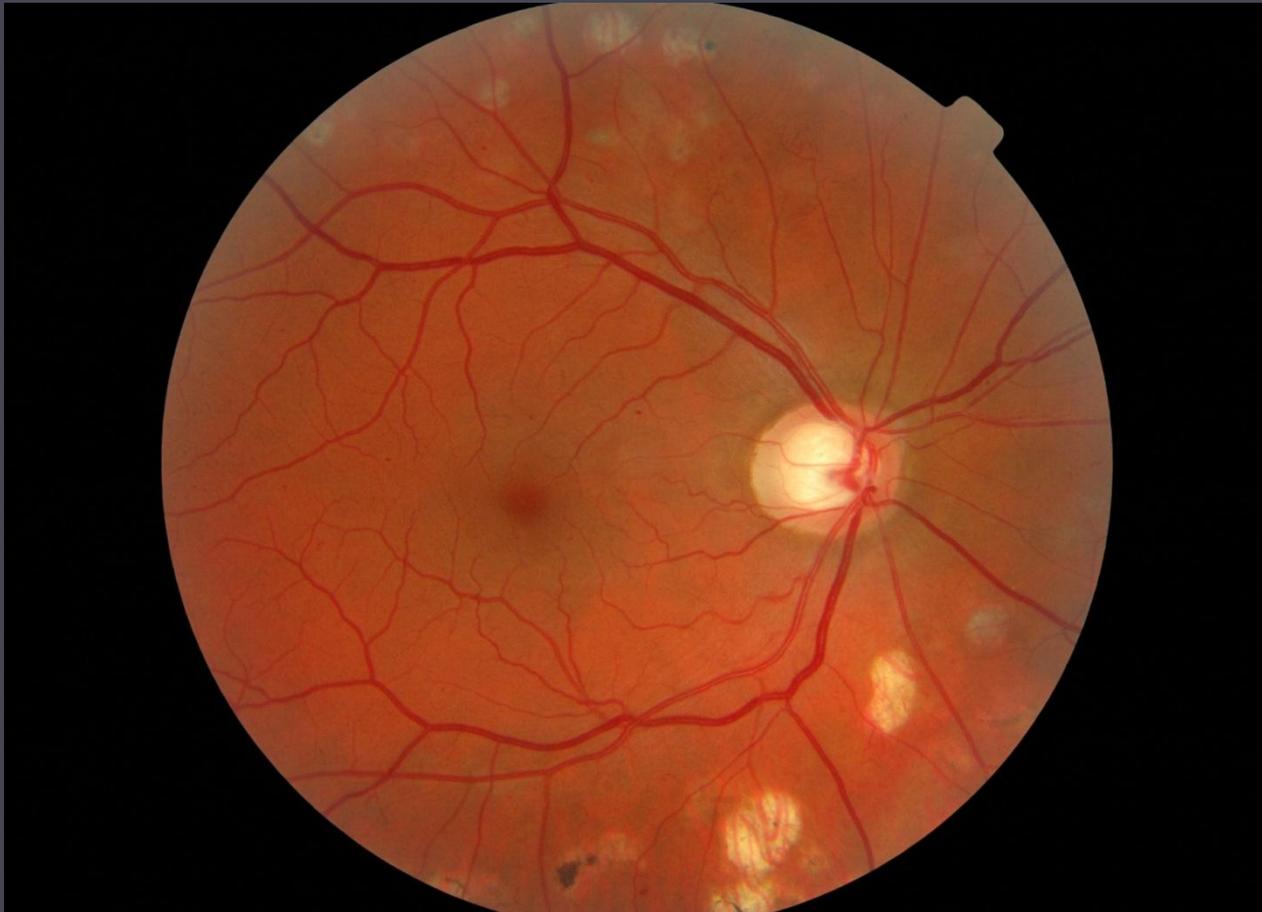
# Mild laser photo-coagulation

Mild, but significant BDR



# Peripheral scatter laser photo-coagulation

Mild BDR



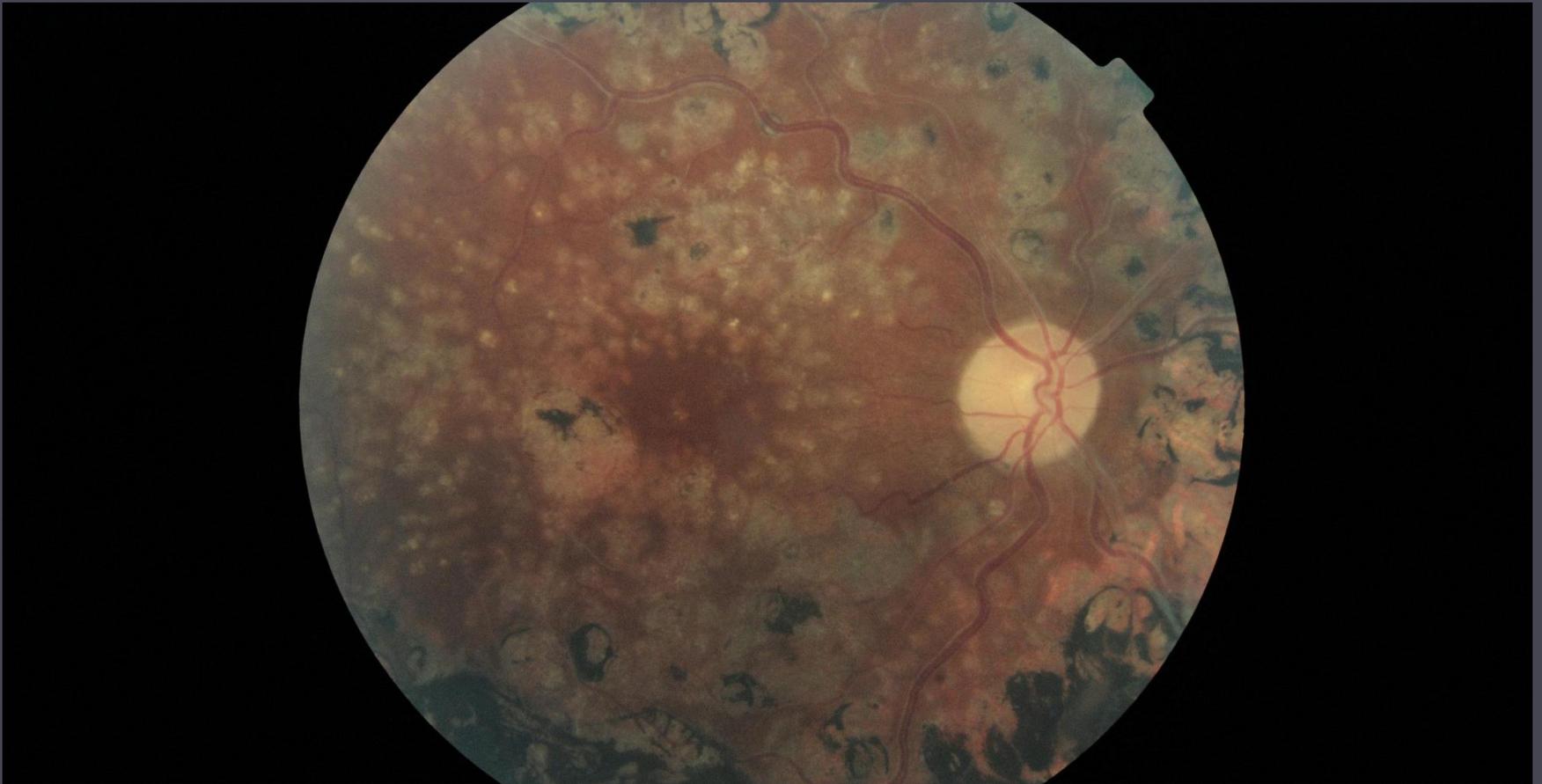
## Signs of peripheral scatter Laser Photocoagulation

Very mild BDR otherwise; Still requires amber flag



## Extensive laser scarring

No NVD/NVE or Fibrosis, so should only be set as amber



# Other ocular conditions

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- ▶ Flag as amber if there are any signs of known non-DR conditions on the images
- ▶ Flag as amber if there are any signs that could indicate non-DR conditions on the images



# Other ocular conditions

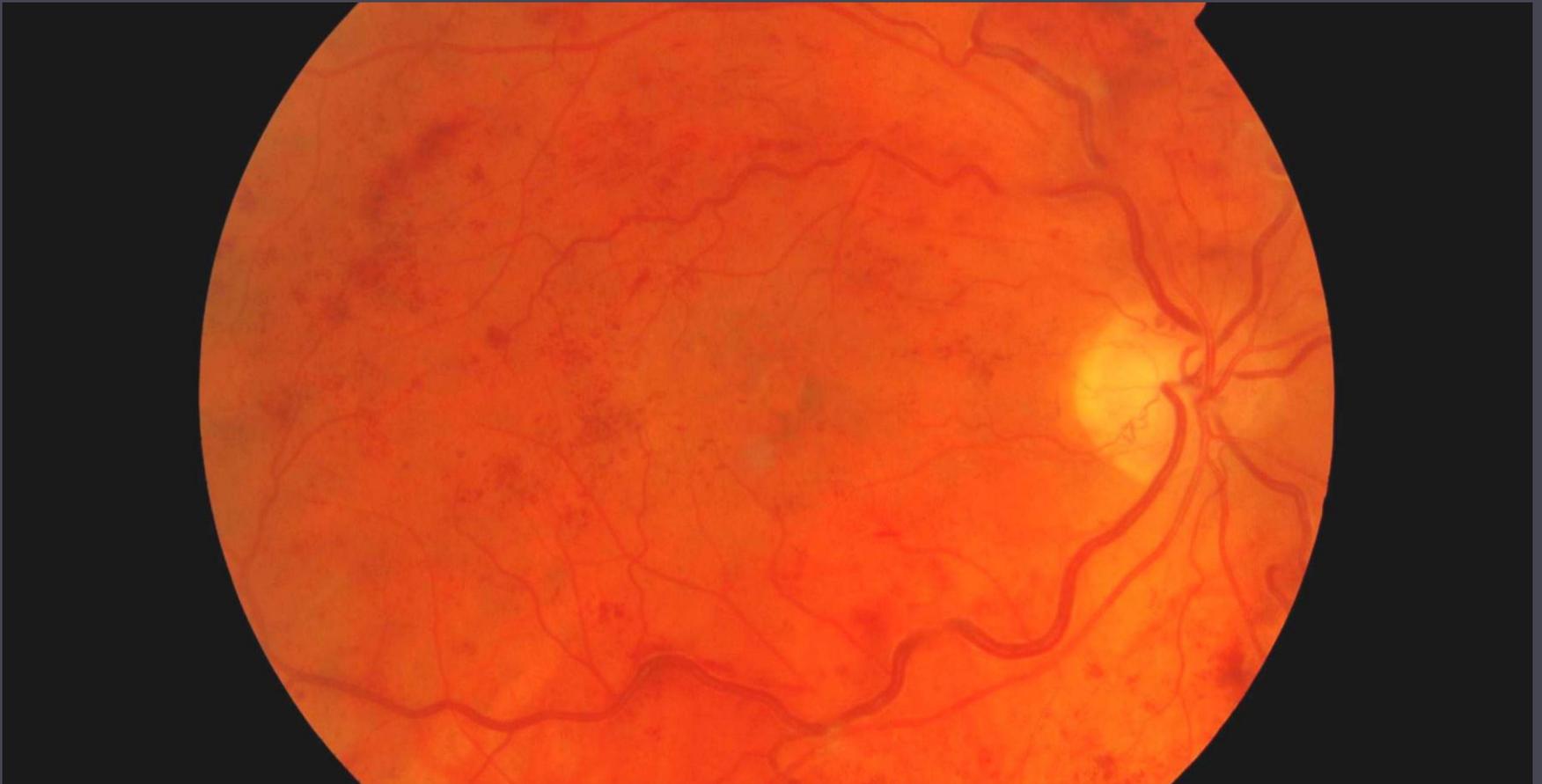
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- ▶ Vein Occlusions
  - ▶ Usually asymmetrical lesions
- ▶ Embolism
- ▶ Wet AMD
- ▶ Dry AMD
- ▶ Glaucoma
  - ▶ Disc splinter haemorrhage
  - ▶ Pale, cupped disc
- ▶ Optic Nerve disorders
- ▶ Choroiditis
- ▶ Vitreous disorders

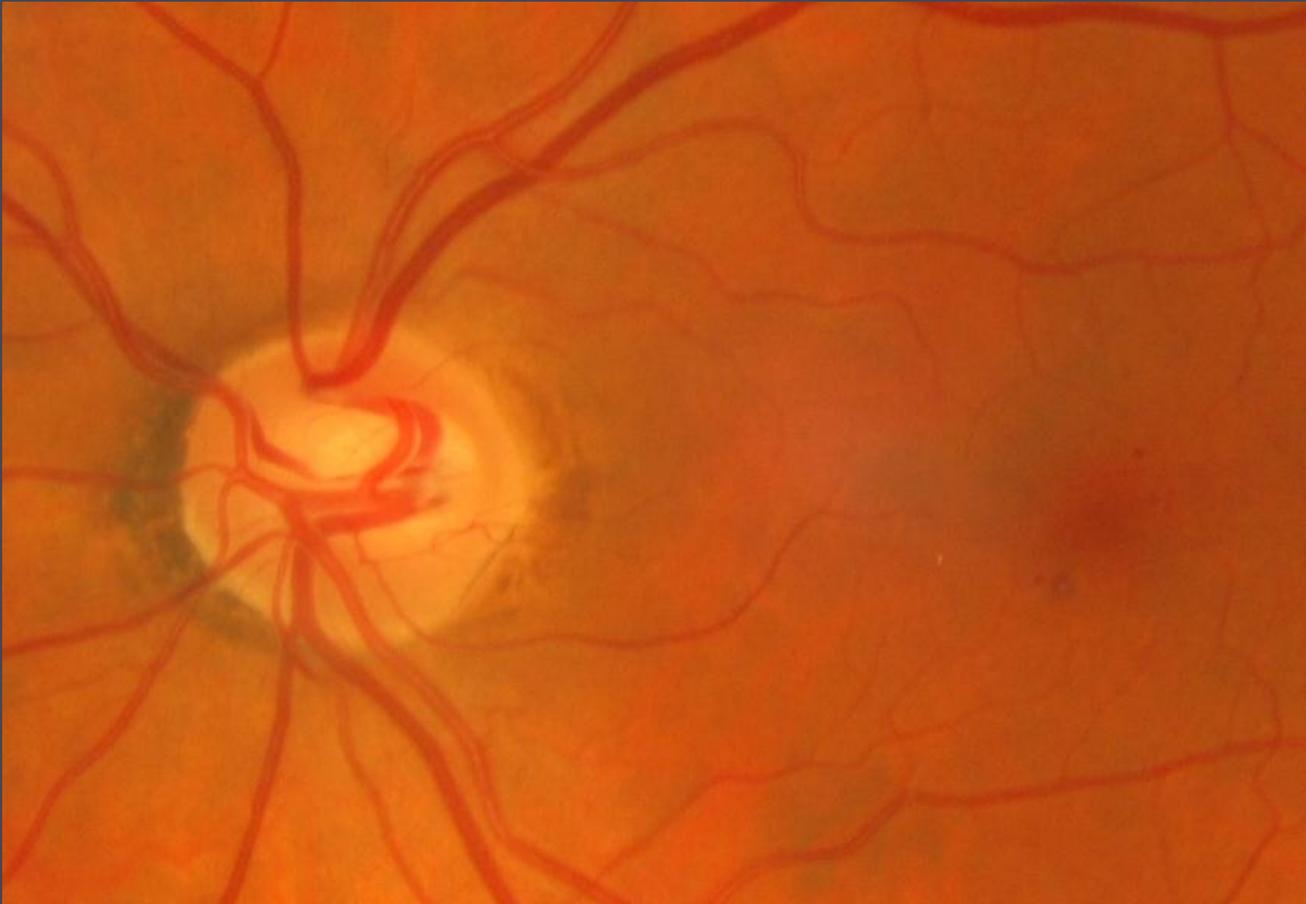


# Central Retinal Vein Occlusion

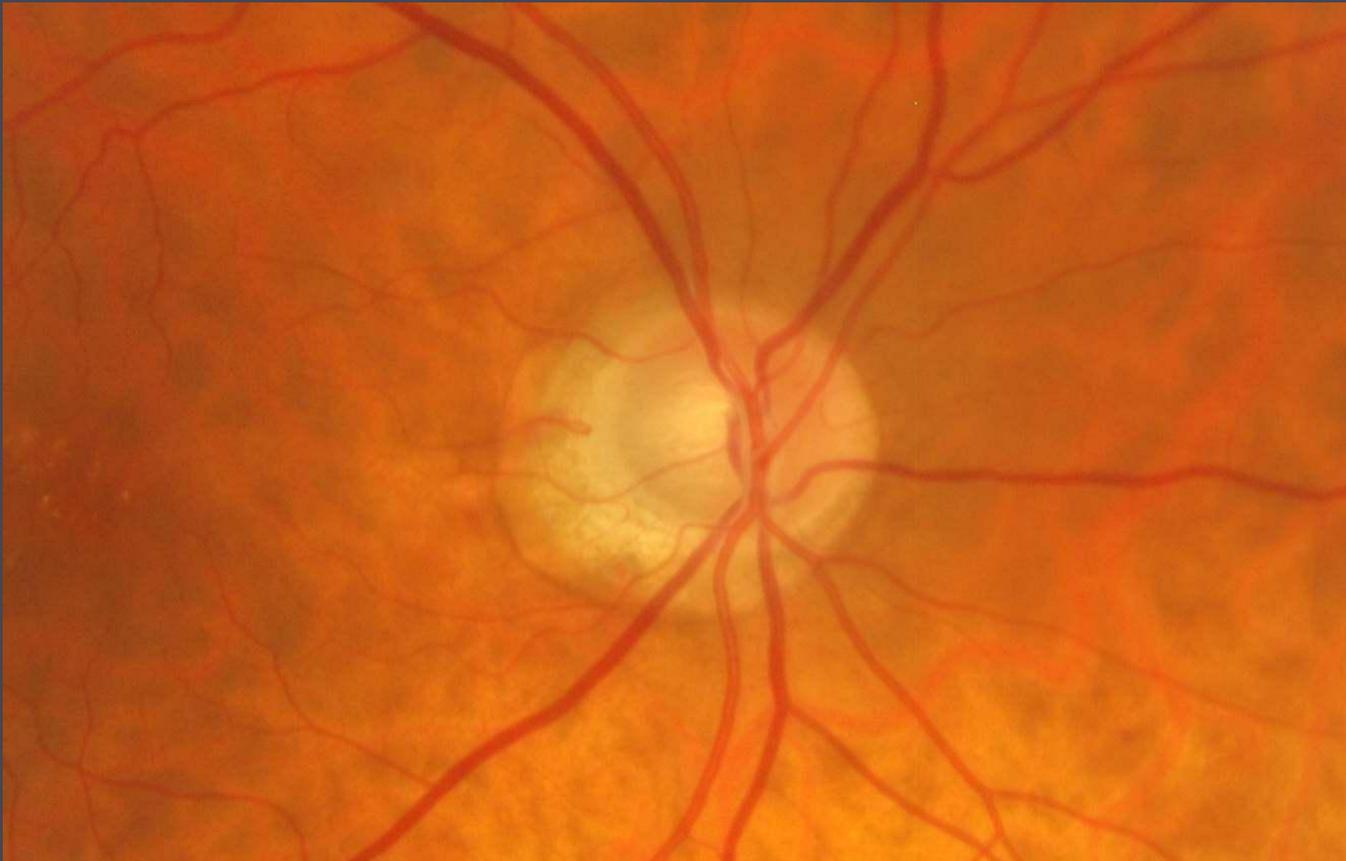
Note collateral disc vessels



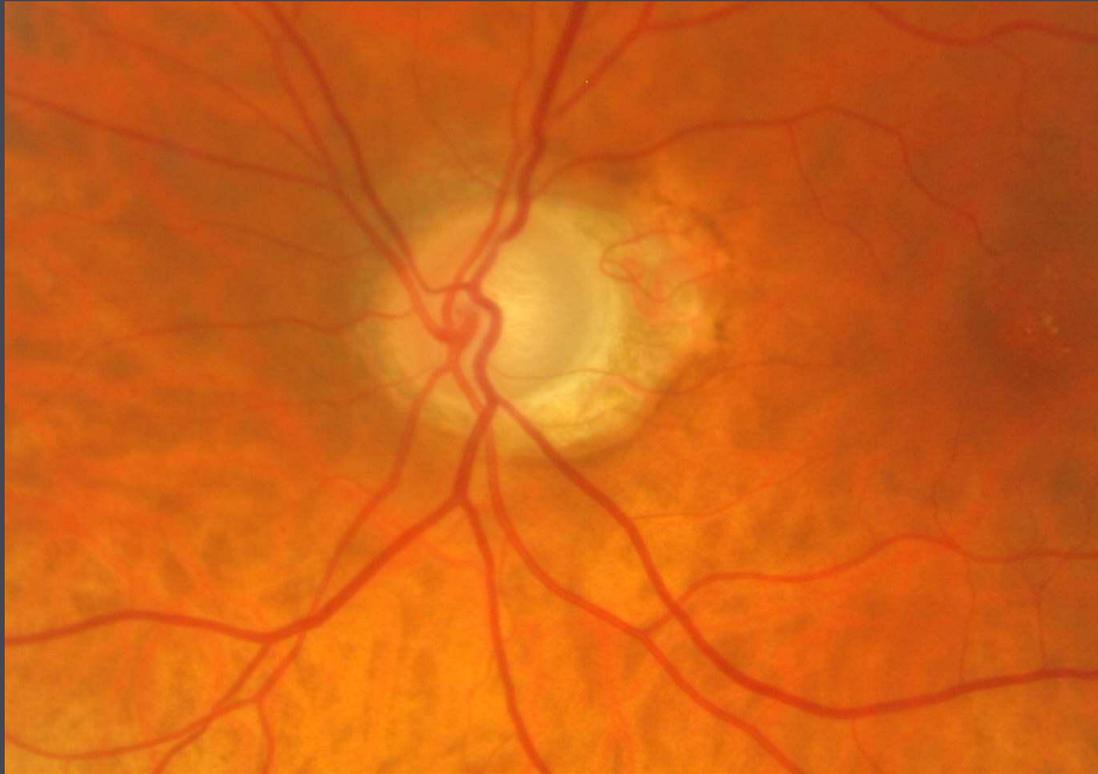
# Gold embolism



# Glaucoma



# Glaucoma



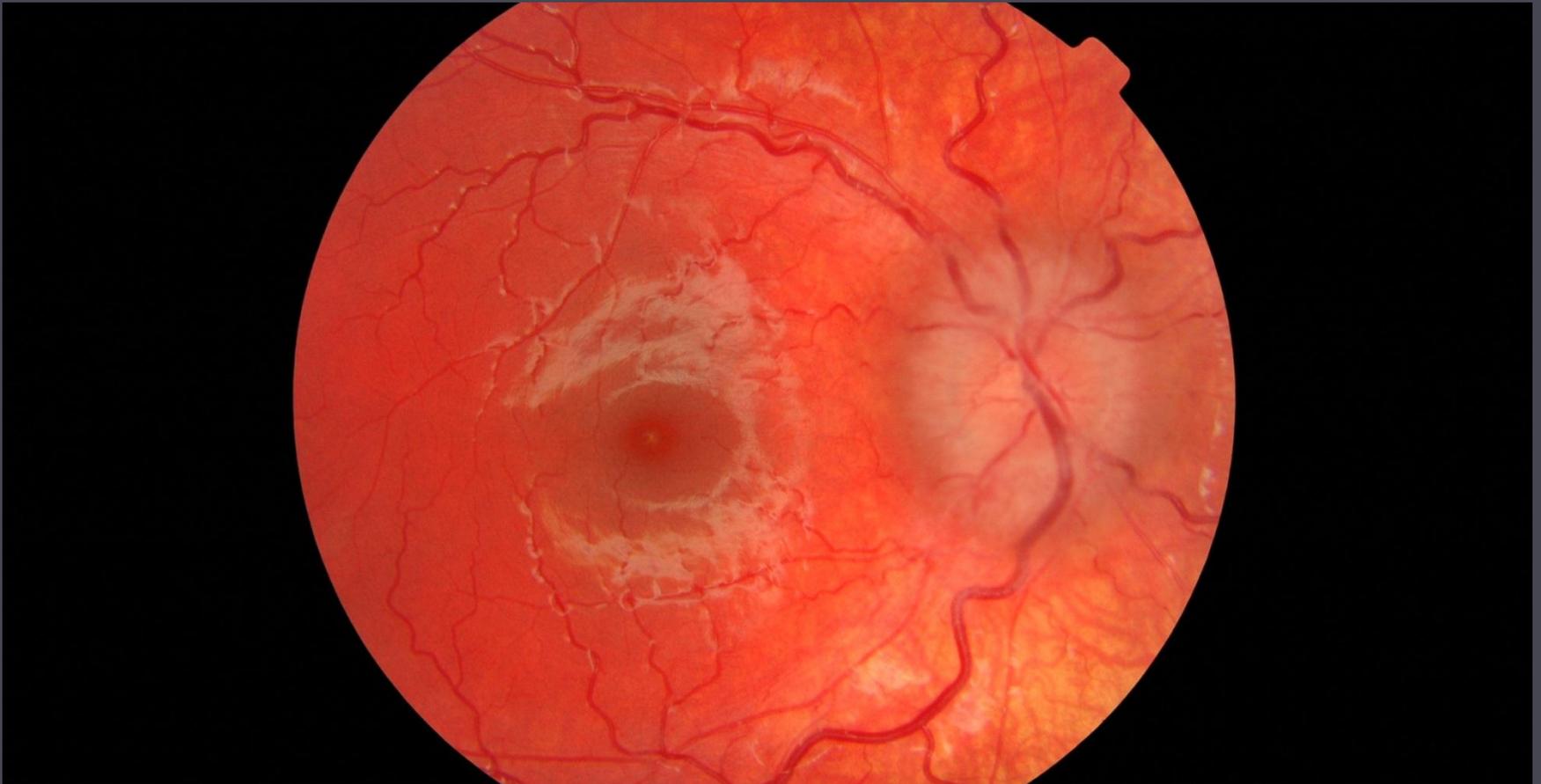
# Disc haemorrhage, not DR

Suspicious for glaucoma



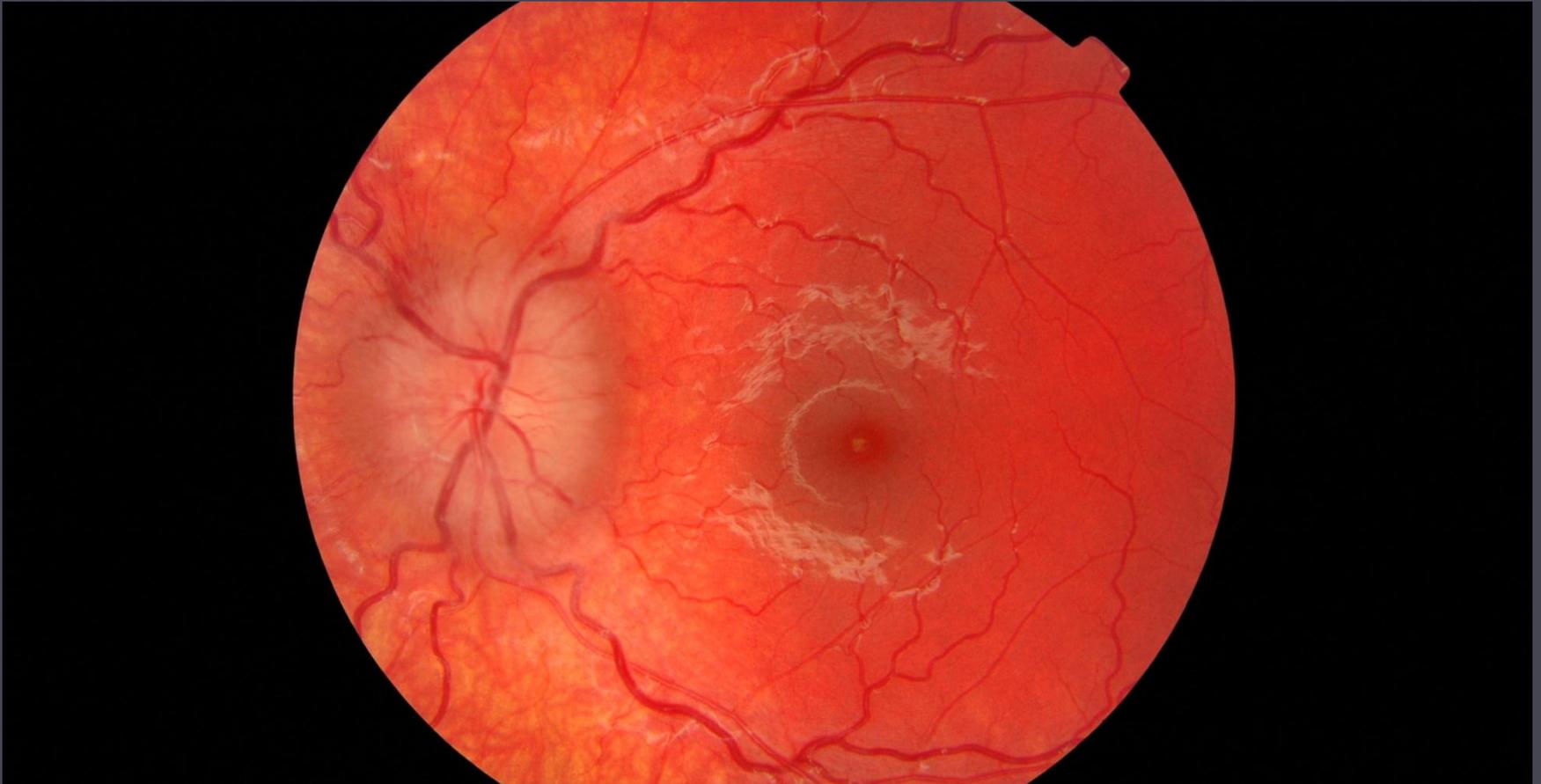
# Papilloedema

VA moderately reduced or no change



# Papilloedema

Fellow eye, almost always bilateral



# Papillitis

More likely to be unilateral and VA reduced



# Comparison with previous image

Left side: Last screening episode

Right side: current episode



# Wet AMD

Central swelling



# Wet AMD

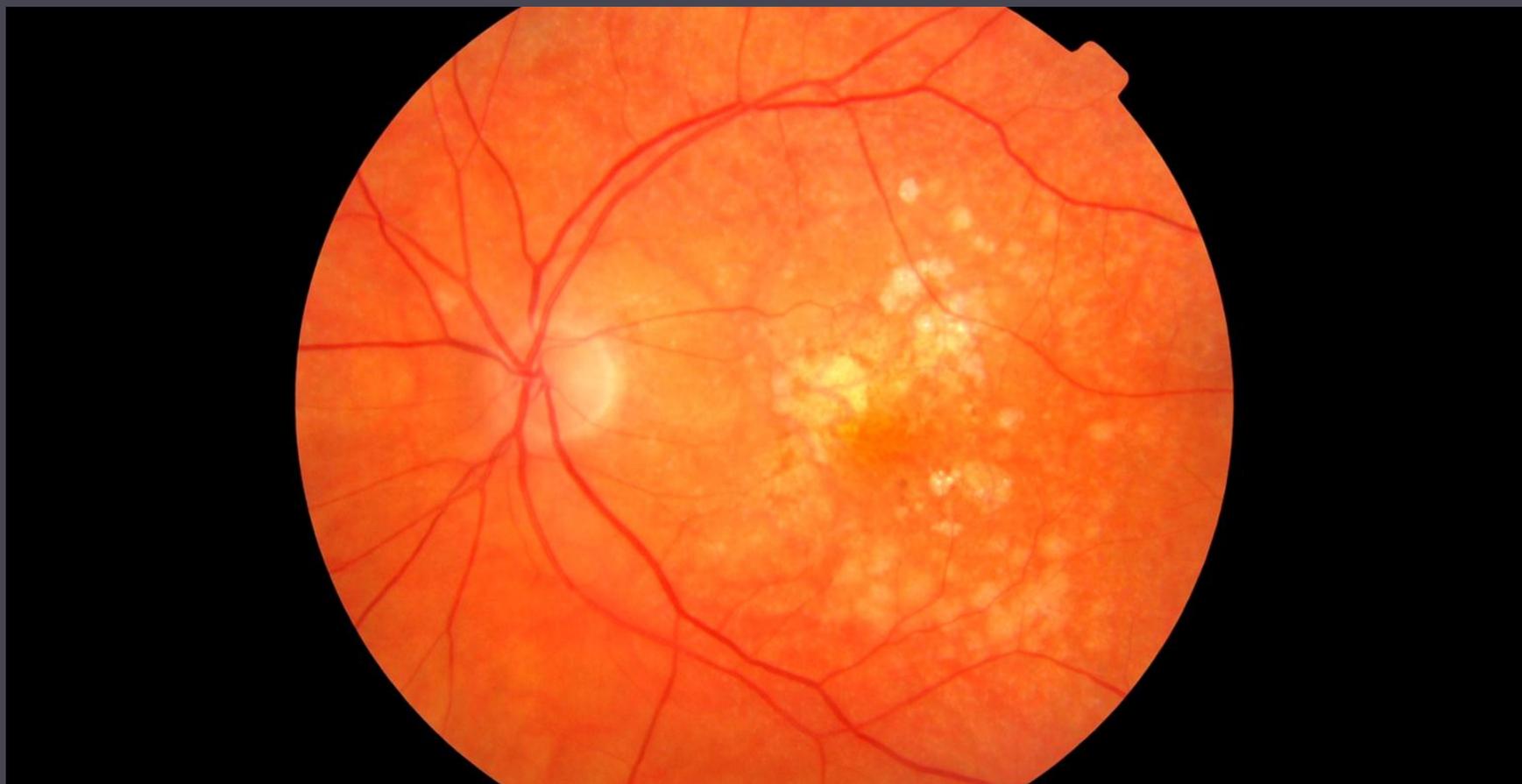
Central exudation and pigment dispersion



## Pigment dispersion and Drusen



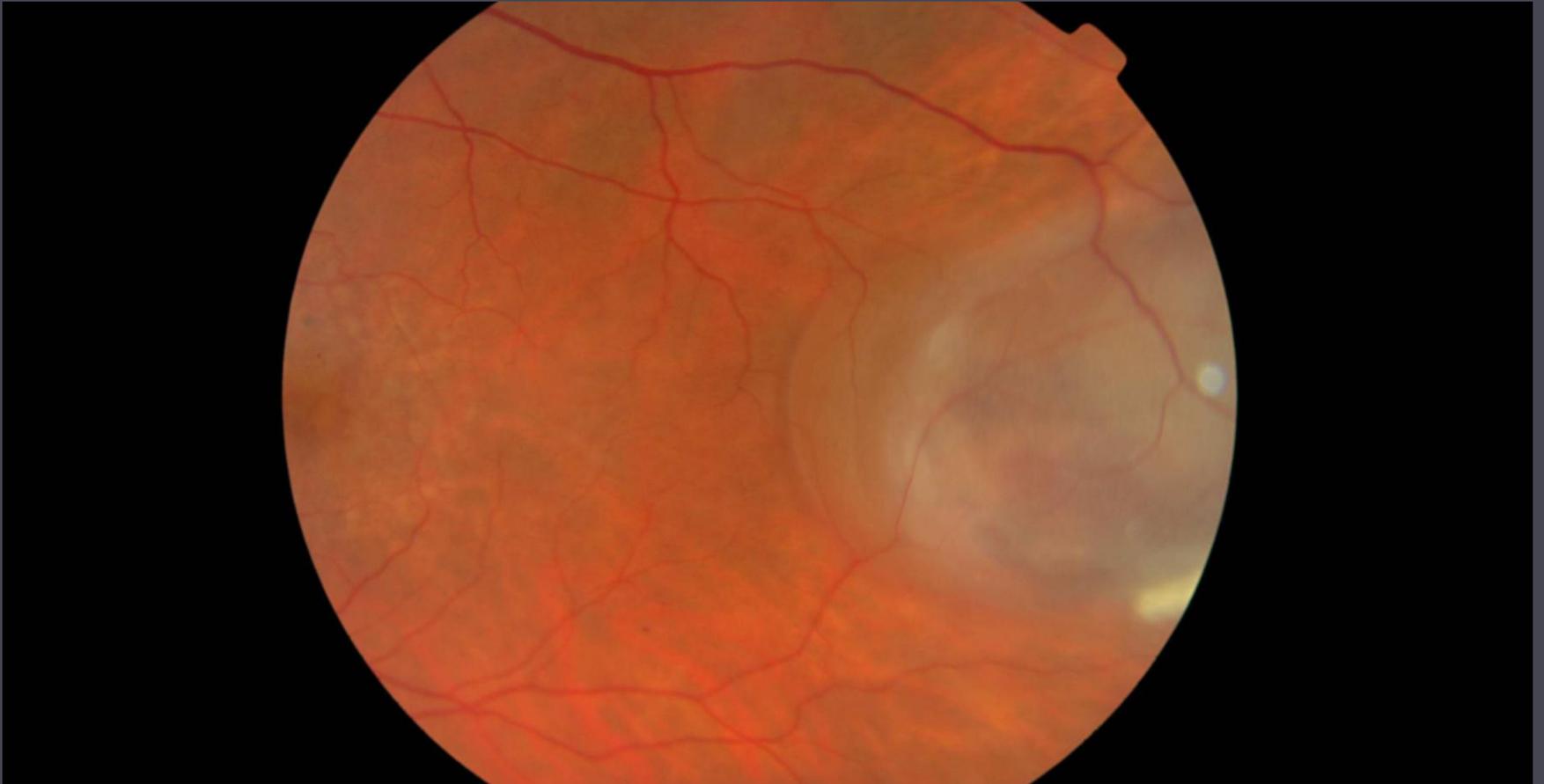
# Dry AMD



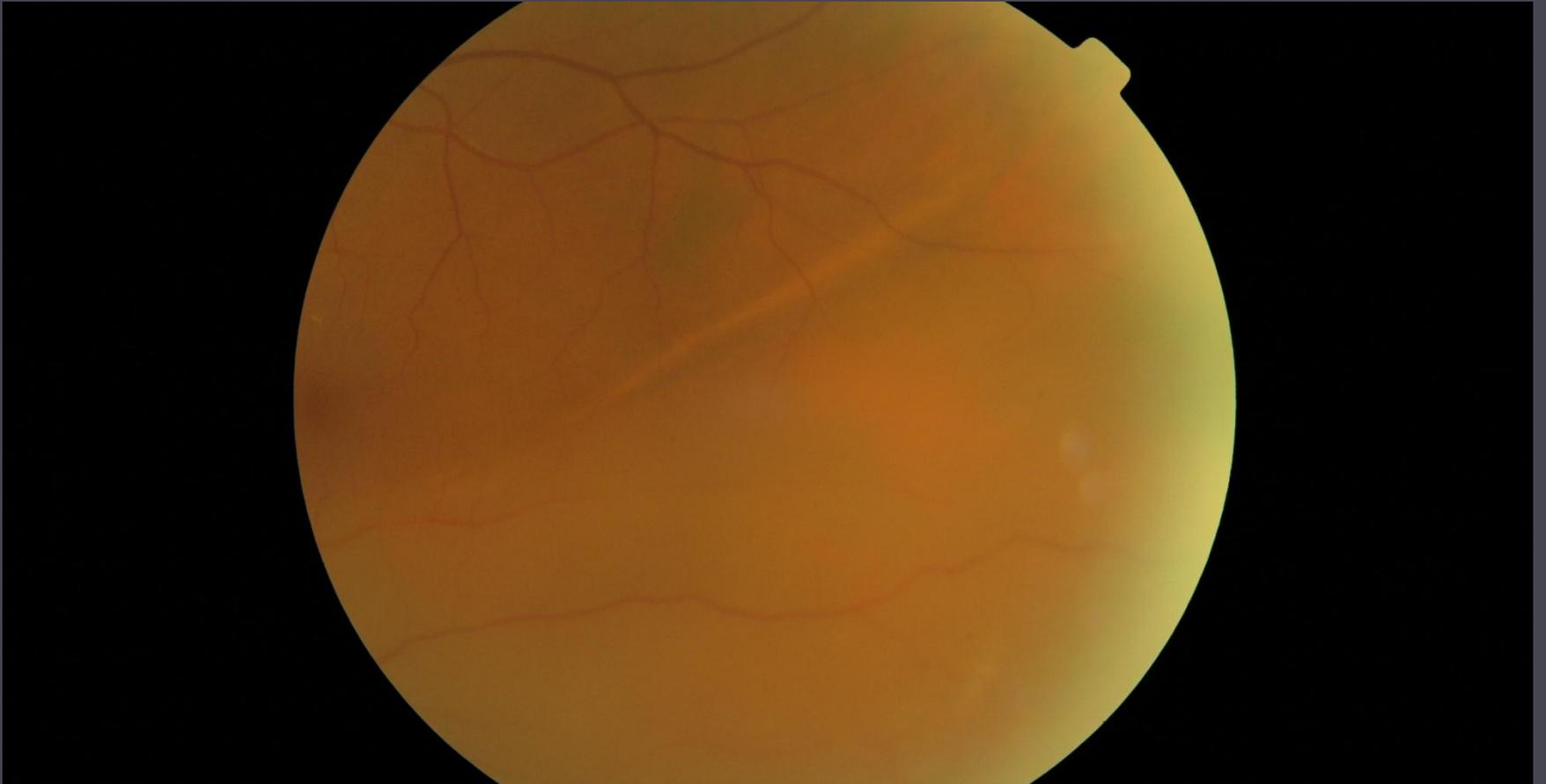
## Chorio-retinal scar



# Melanoma



# Retino-Schisis



# Retino-Schisis



# Cellophane Maculopathy

AKA Macular Pucker/Epi-macular membrane (EMM)

