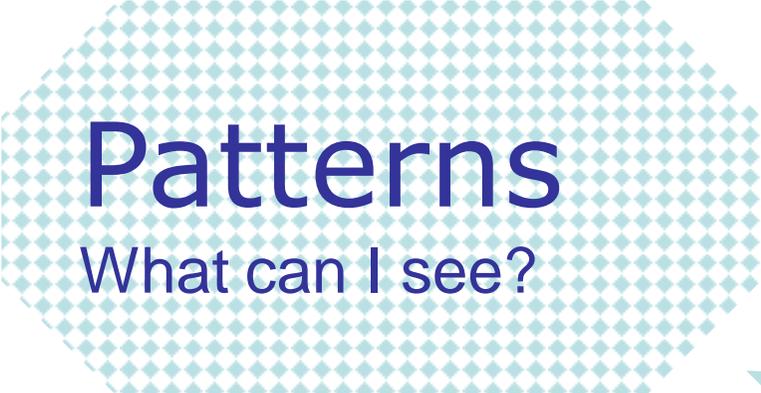


Dr Liz Wilkinson Ophthalmologist & DRSS Clinical Lead Whipps
Cross UHT London

Compact Discs

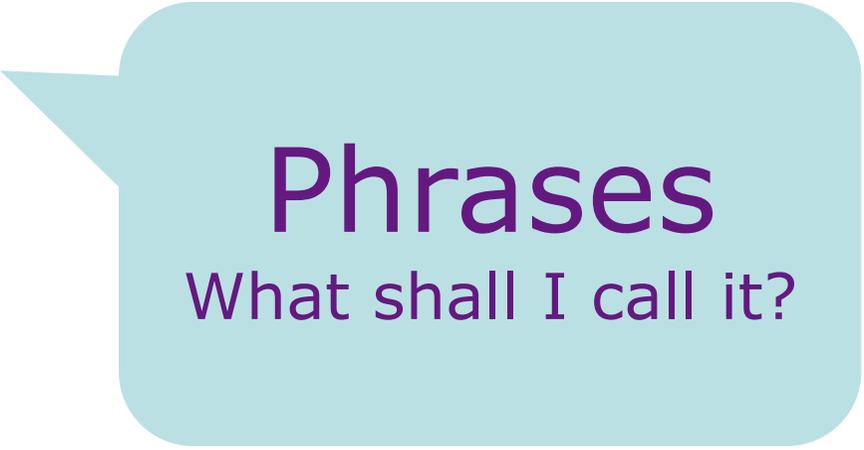
A Short Guide to Getting on (with)
Your Nerves

The 2 Ps



Patterns

What can I see?

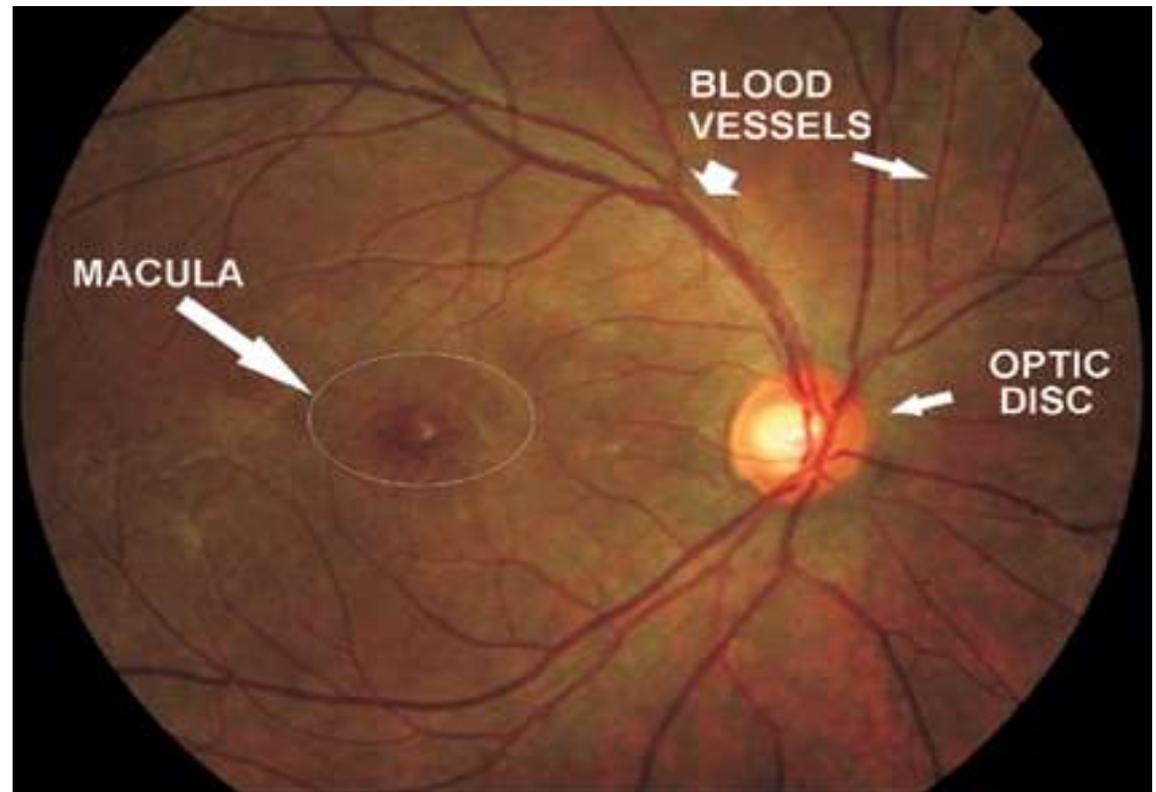


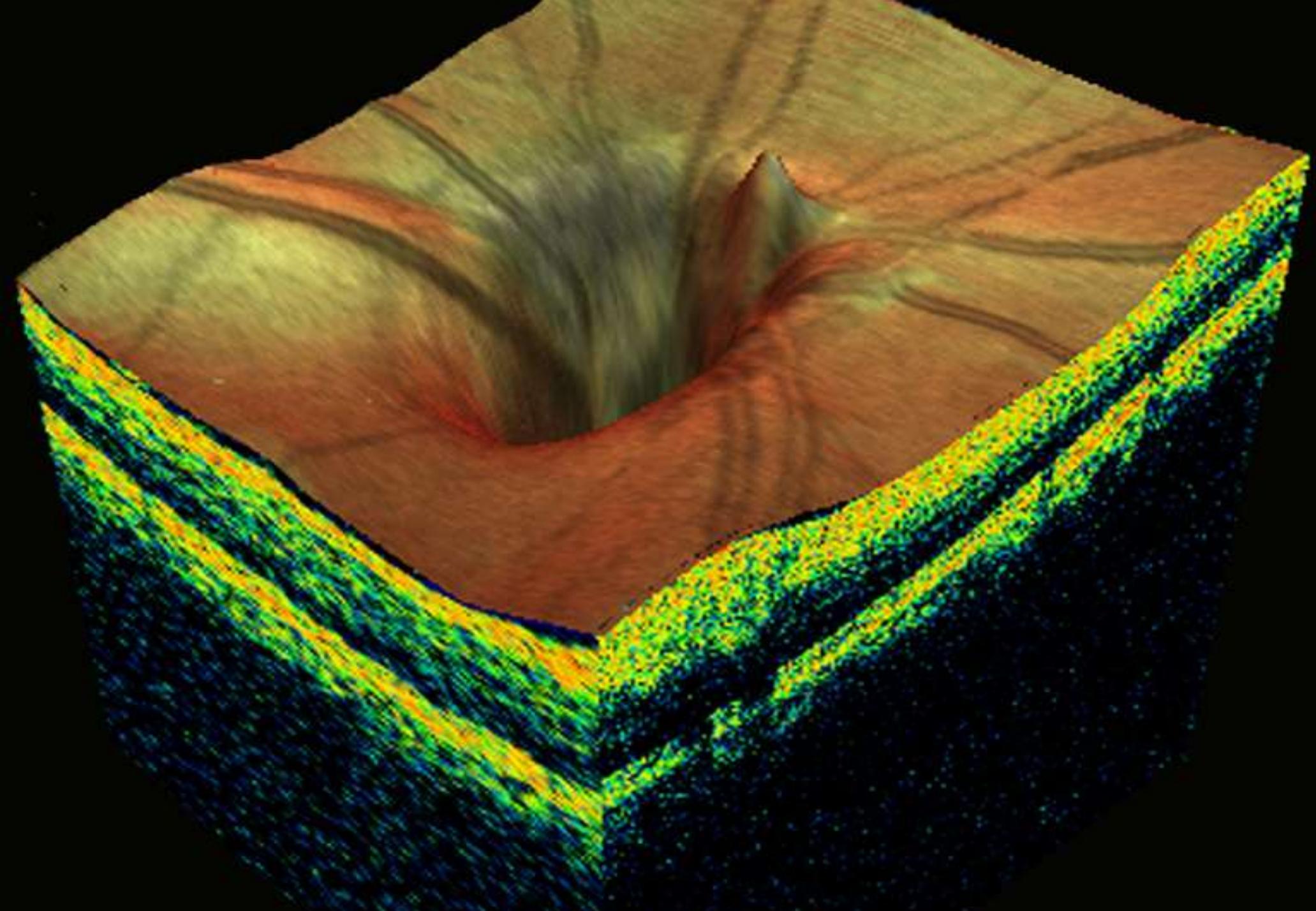
Phrases

What shall I call it?

The Normal Disc

- Formed by 1.2 million ganglion cells from the retina
- 1.5 mm in diameter
- Pink or orange
- 0.3 mm cup





Patterns

Cup

Edge

Colour

Blood vessels

Other abnormalities/congenital

Cupping

- Characteristic of glaucoma
- Also optic nerve compression
- And optic nerve atrophy
- Physiological cups in large discs



Glaucoma

A leading cause of blindness worldwide

It is a **progressive optic neuropathy** with characteristic optic disc and **nerve fibre layer** damage

Risk Factors

Increased intraocular pressure

Old age

African descent

Family history

Possible Risk: Diabetes/Myopia/Hypertension

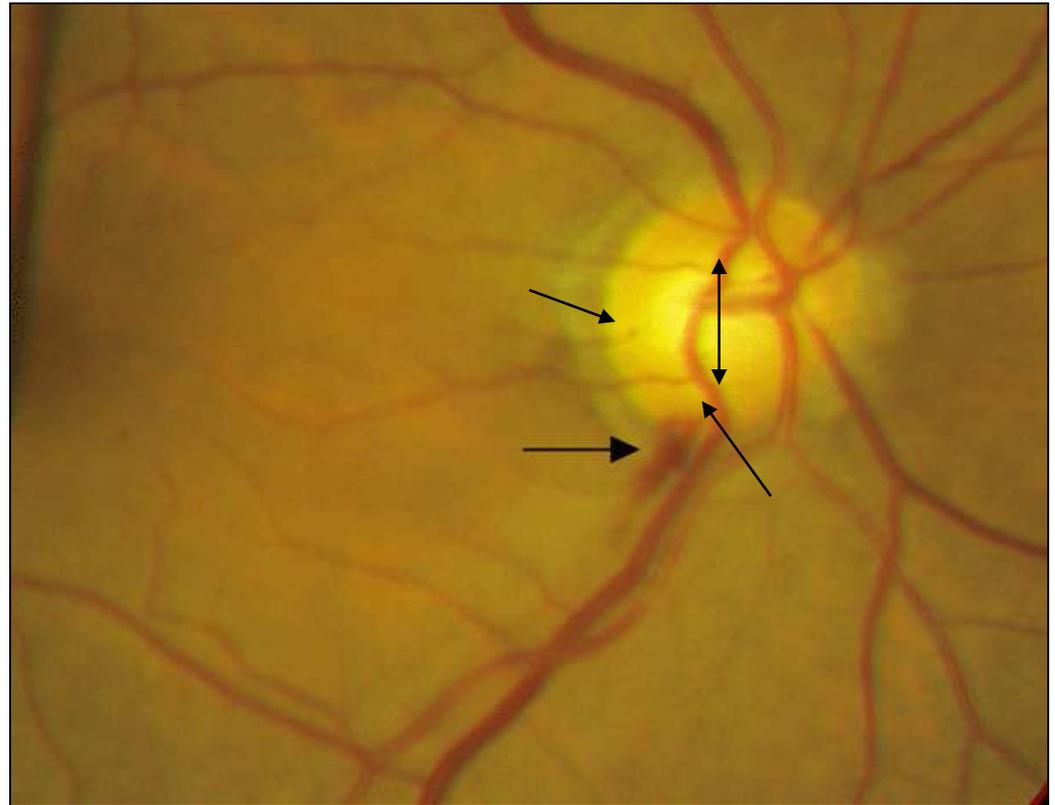
Pattern

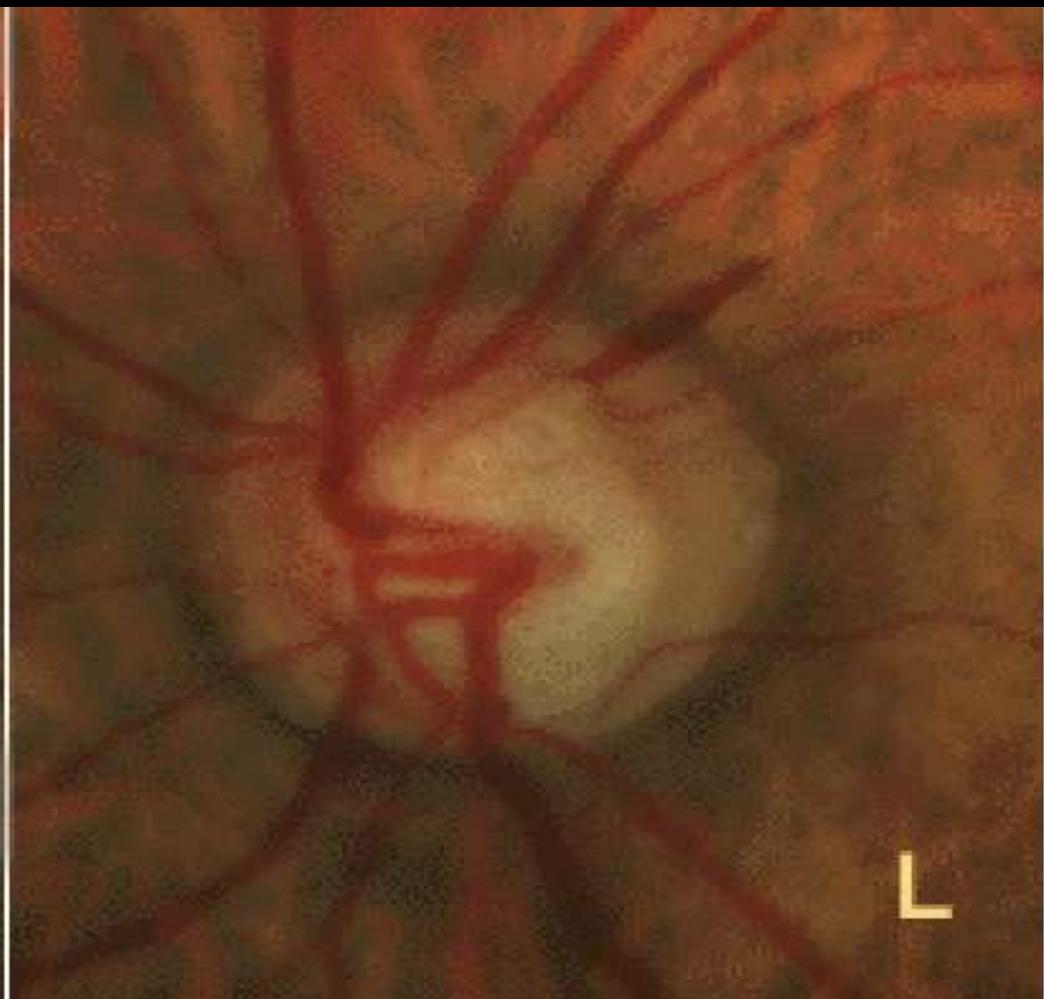
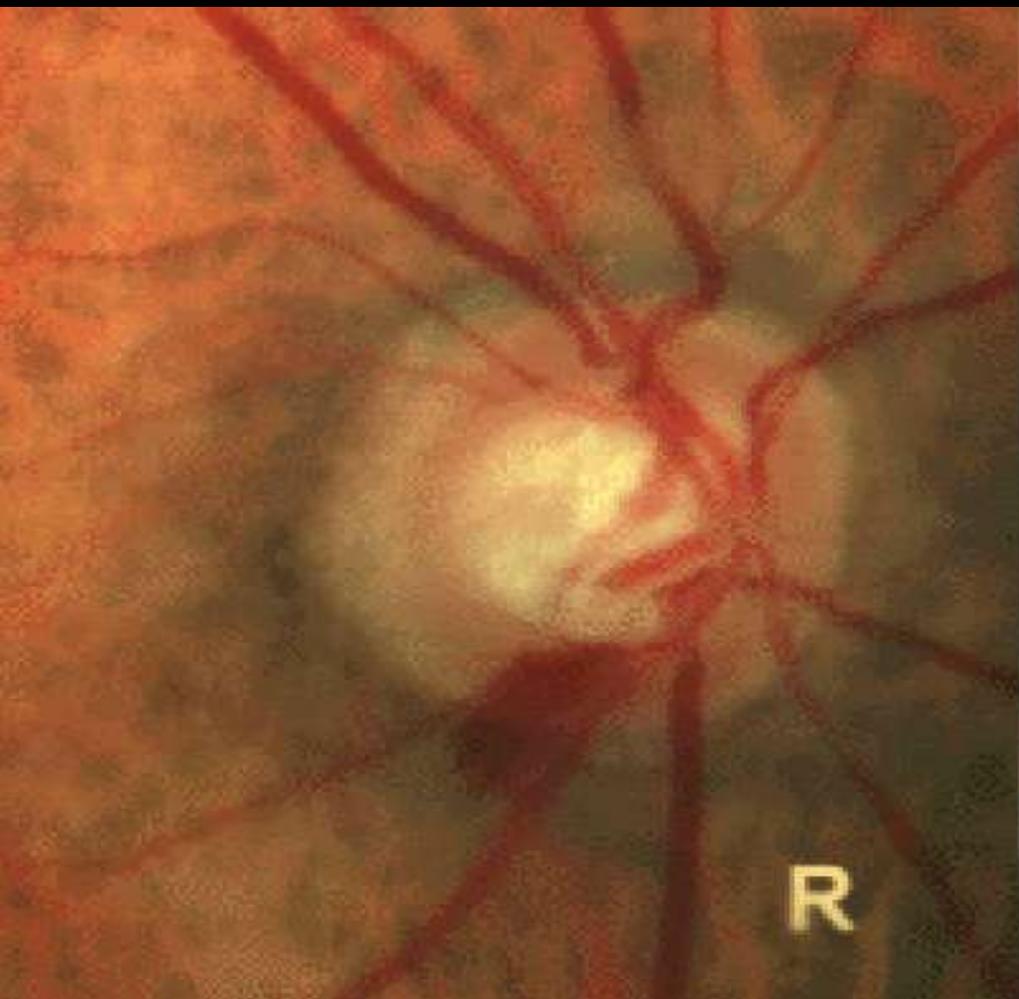
Increased cup size

Thin neuroretinal rim

Notching of rim

Splinter haemorrhage at margin





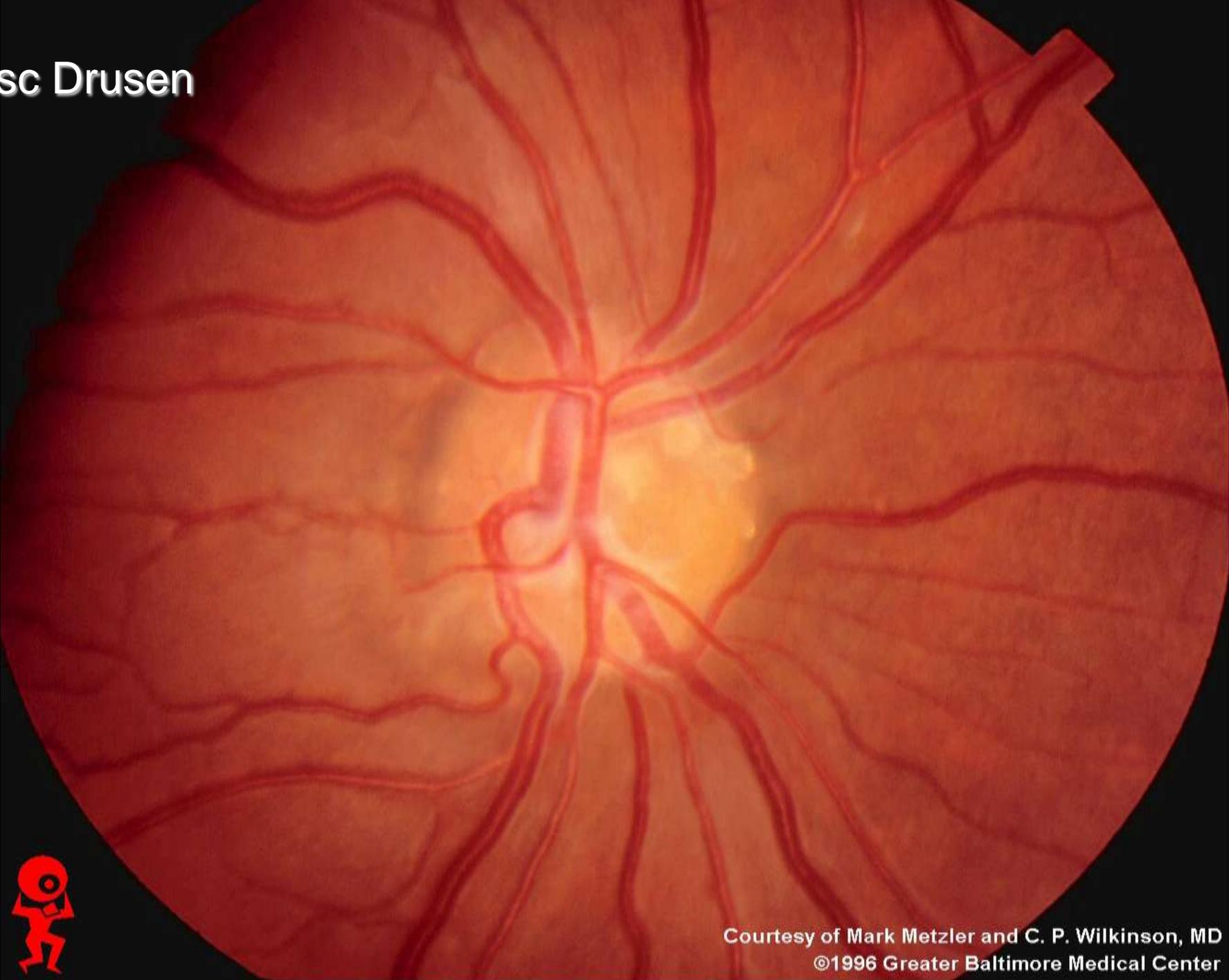
Swollen/Blurred Edges

- Anterior Optic Neuropathy (ischaemic, inflammatory, infiltrate, compressive)
- Pseudopapilloedema (optic nerve head drusen, small optic disc, tilted, myelinated nerve fibres)
- Papilloedema
- Pseudoedema (Leber's, methanol poisoning)
- Intraocular Disease (CRVO, posterior uveitis, posterior scleritis, hypotony)
- Accelerated Systemic Hypertension

Papilloedema

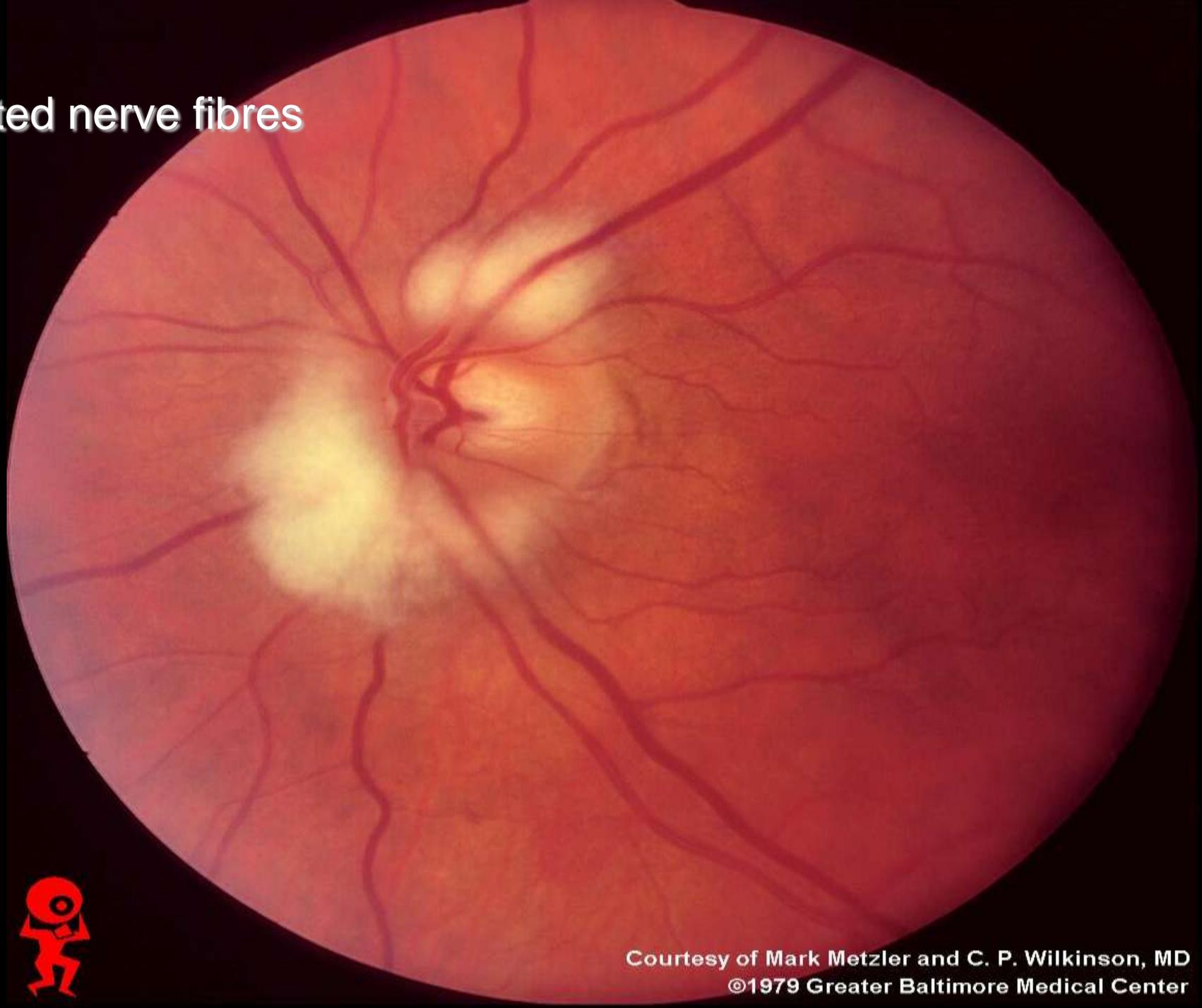


Optic Disc Drusen



Courtesy of Mark Metzler and C. P. Wilkinson, MD
©1996 Greater Baltimore Medical Center

Myelinated nerve fibres

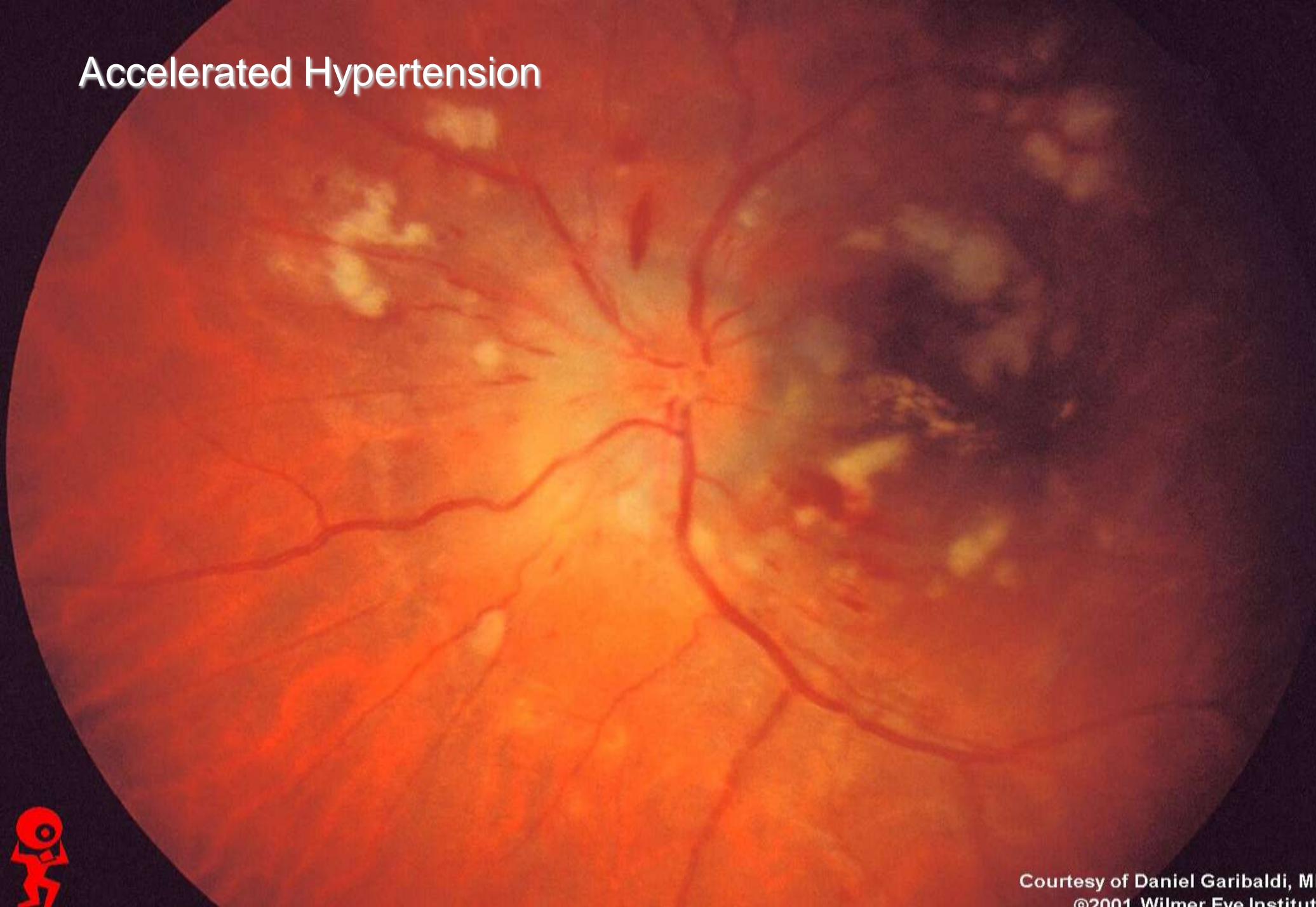


CRVO



Courtesy of Joseph B. Harlan, MD
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Accelerated Hypertension



Courtesy of Daniel Garibaldi, M

@2001 Wilmer Eye Institut



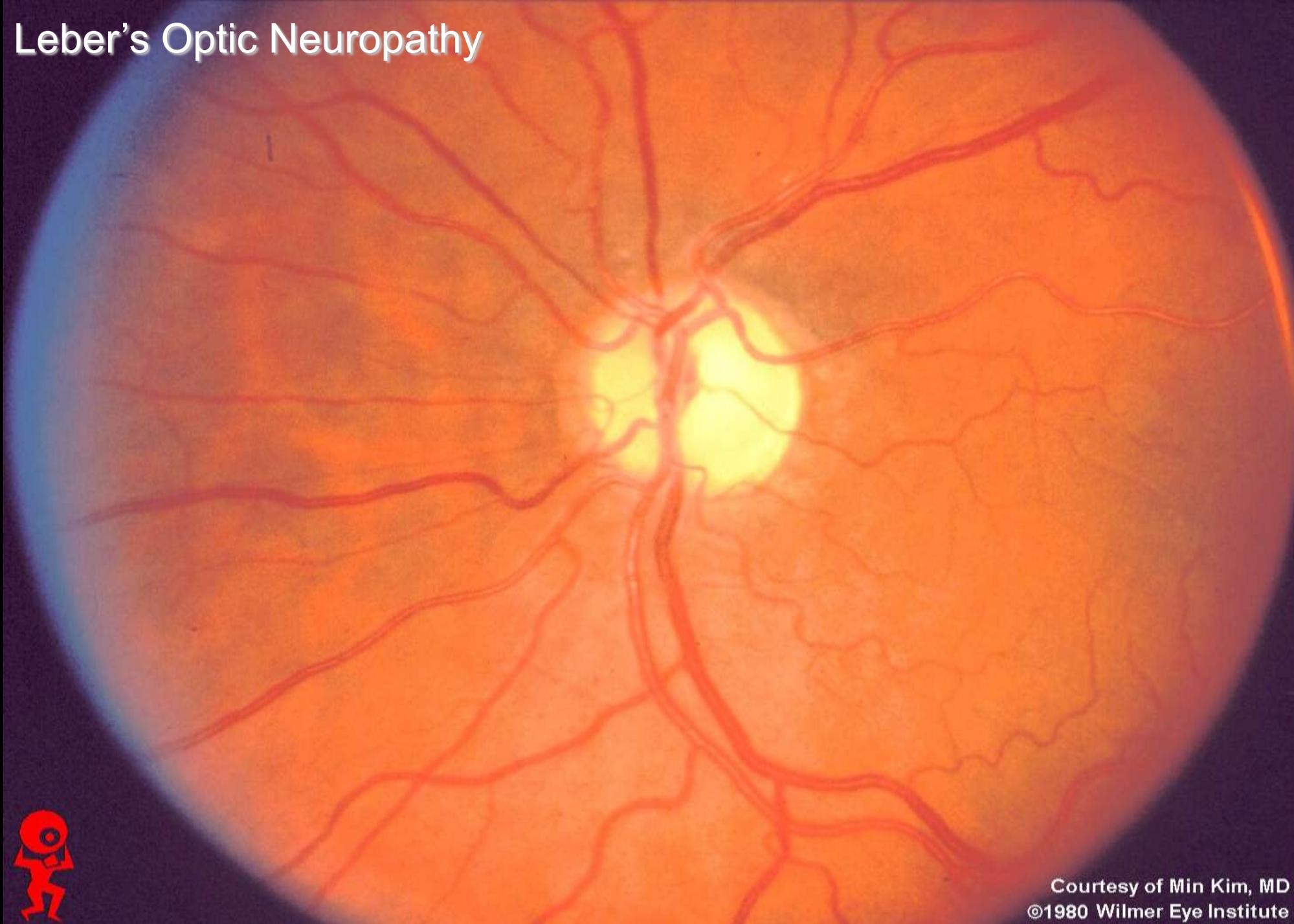
Pale/Disc Pallor

Late response to

Optic nerve disease

Retinal disease

Leber's Optic Neuropathy



Blood vessels

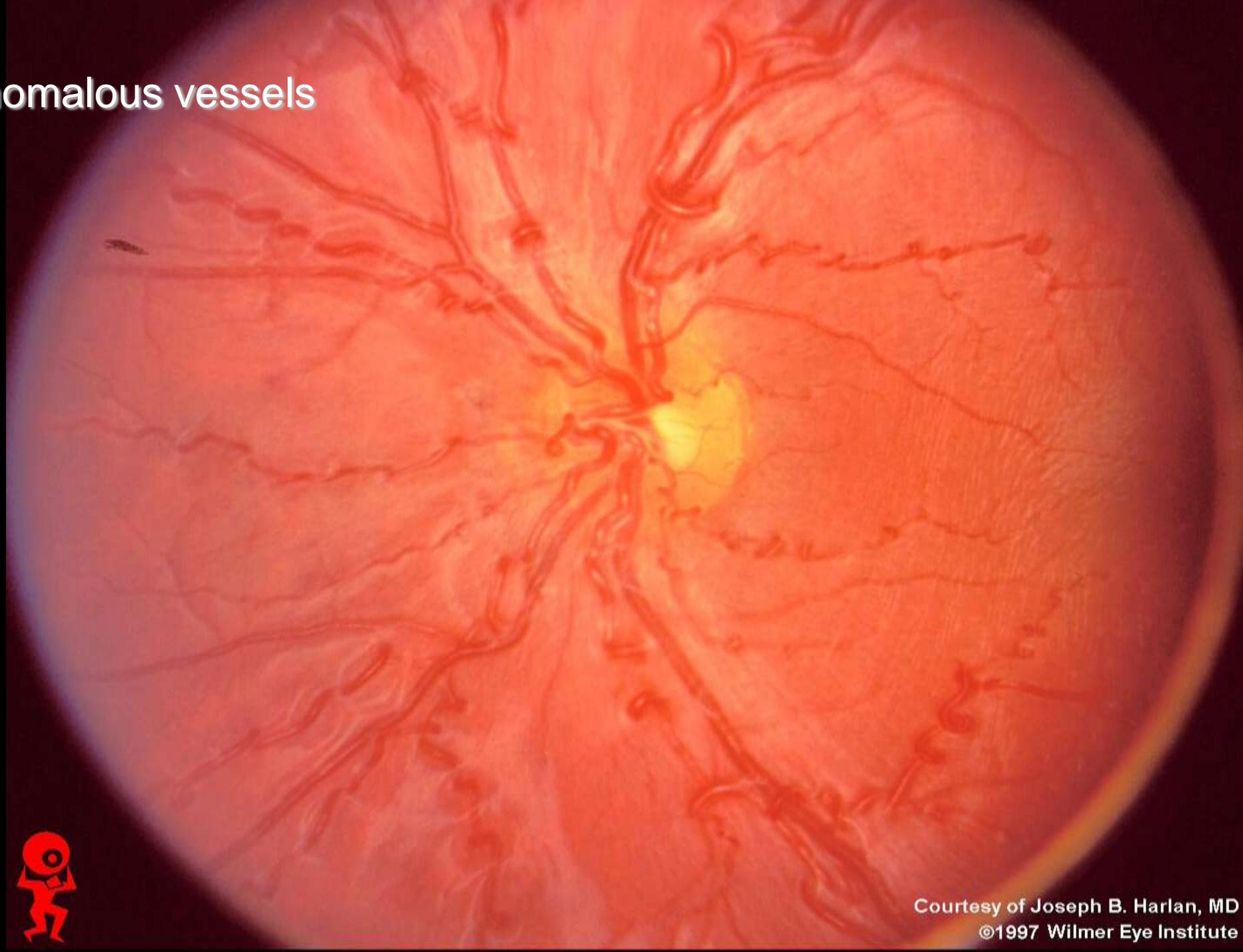
- Neovascular
- Anomalous
- Occluded - CRVO, CRAO

Disc new vessels



Courtesy of Mark Metzler and C. P. Wilkinson, MD
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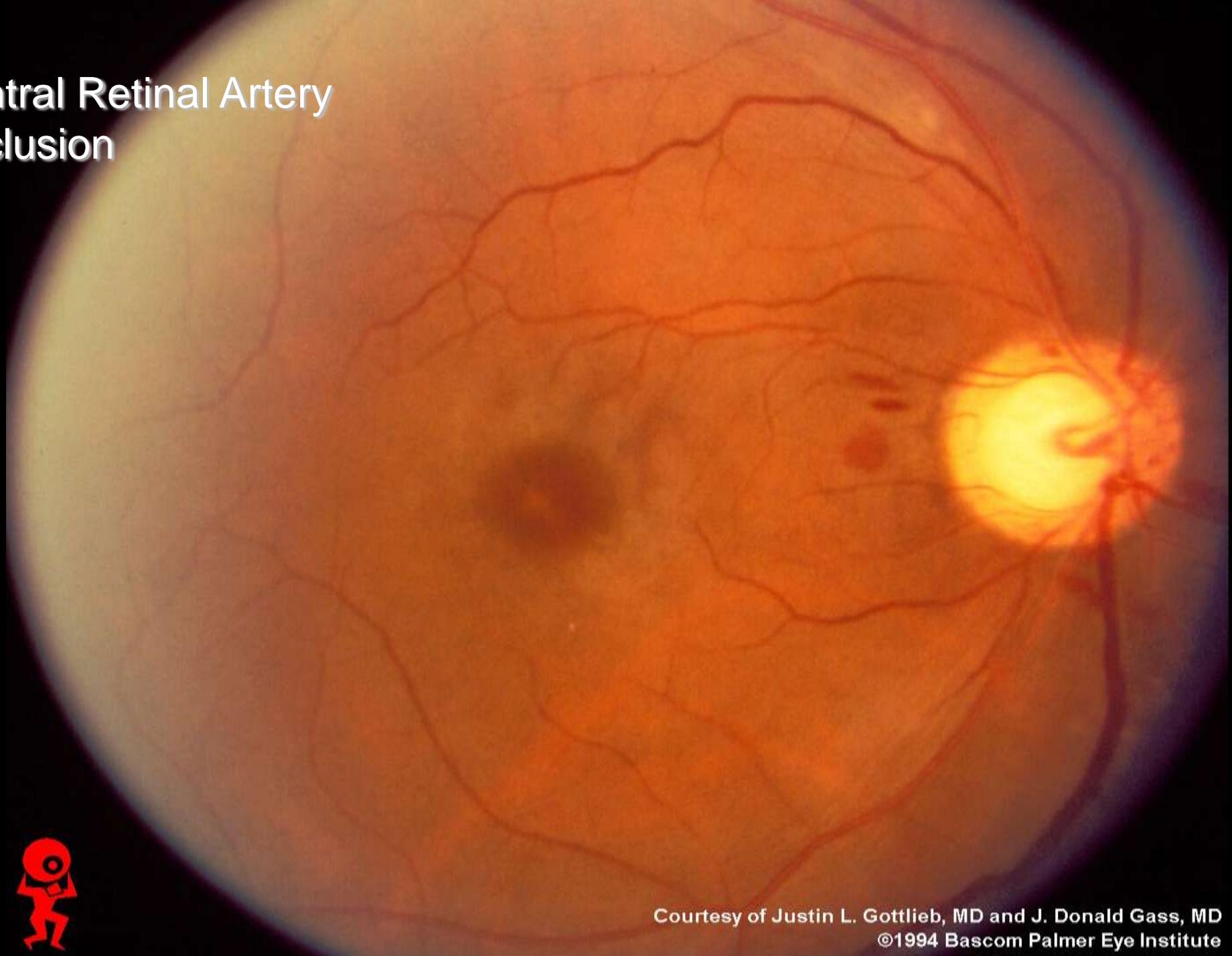
Anomalous vessels



Courtesy of Joseph B. Harlan, MD

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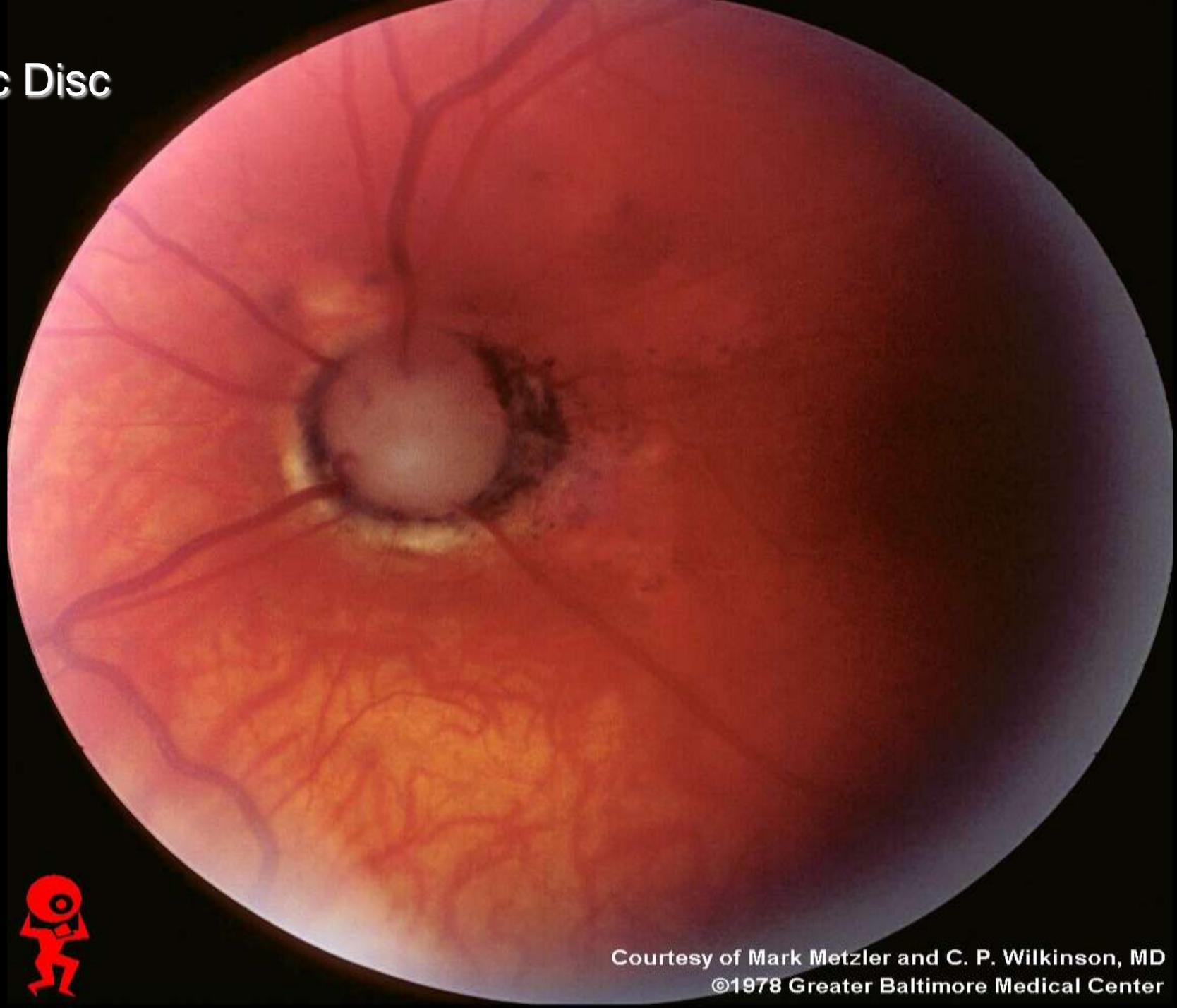
Central Retinal Artery Occlusion



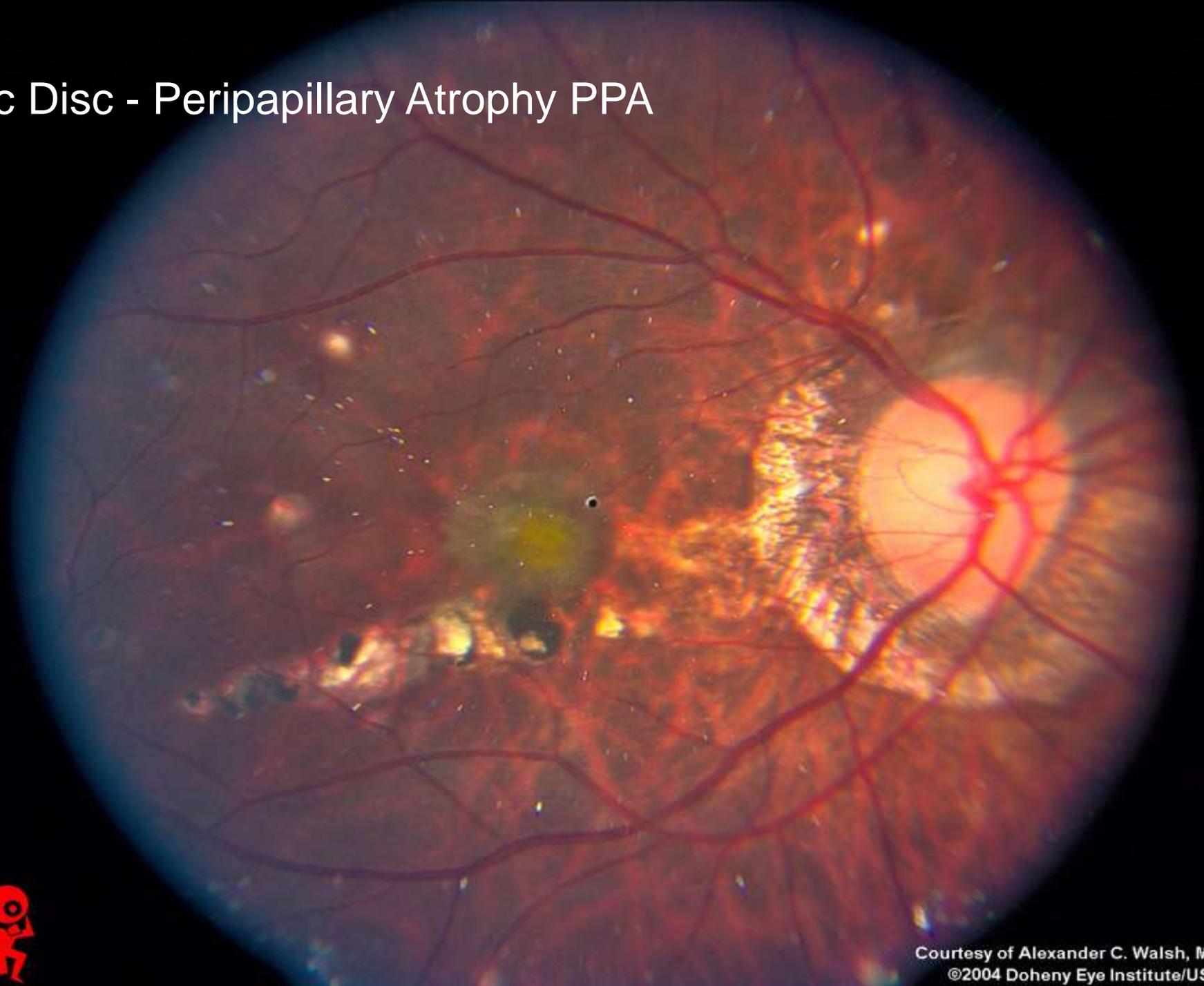
Congenital/Other

- Hypoplastic
- Myopic - Peripapillary Atrophy
- Glial Veil
- Optic Pit
- Coloboma

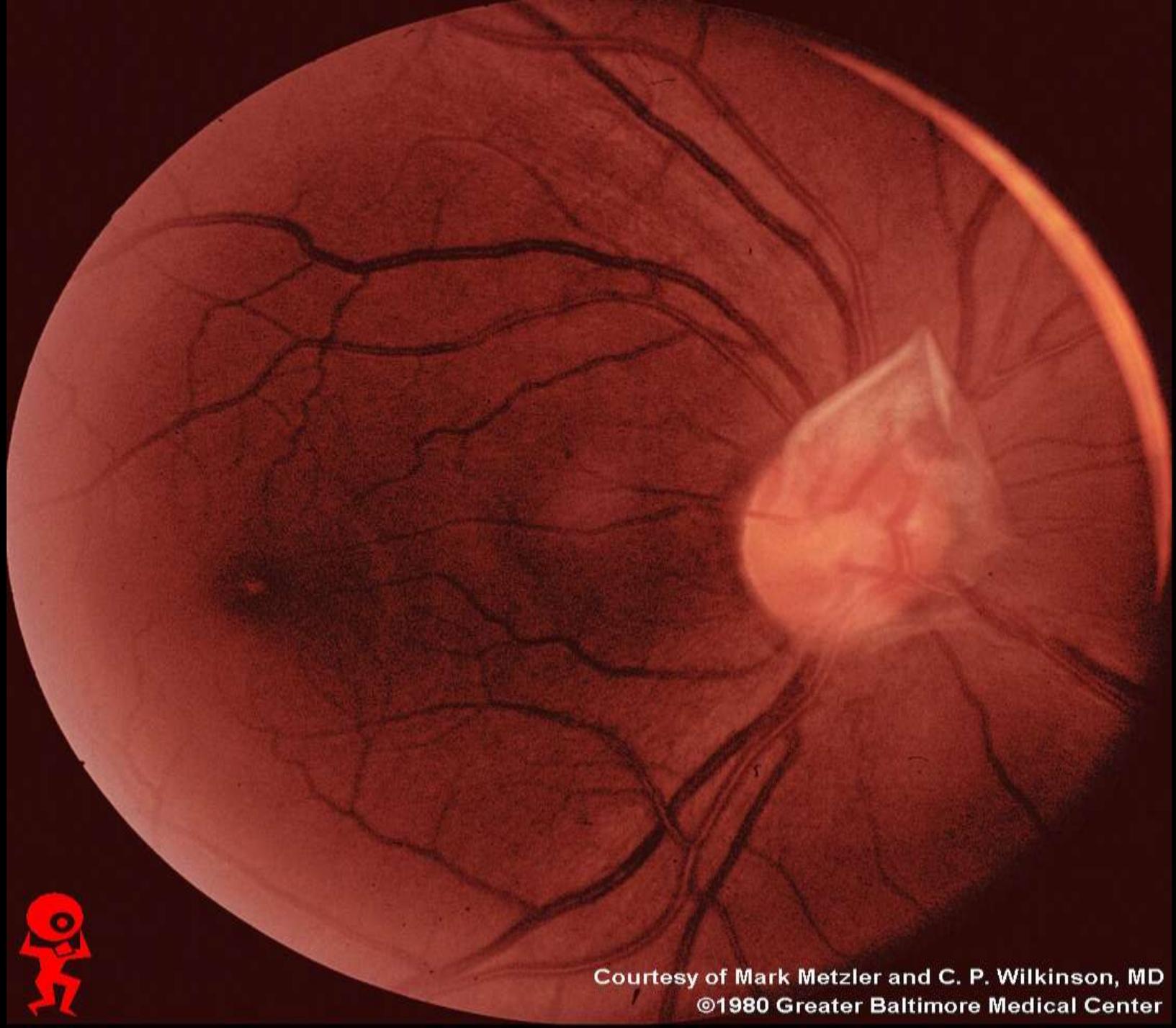
Hypoplastic Disc



Myopic Disc - Peripapillary Atrophy PPA

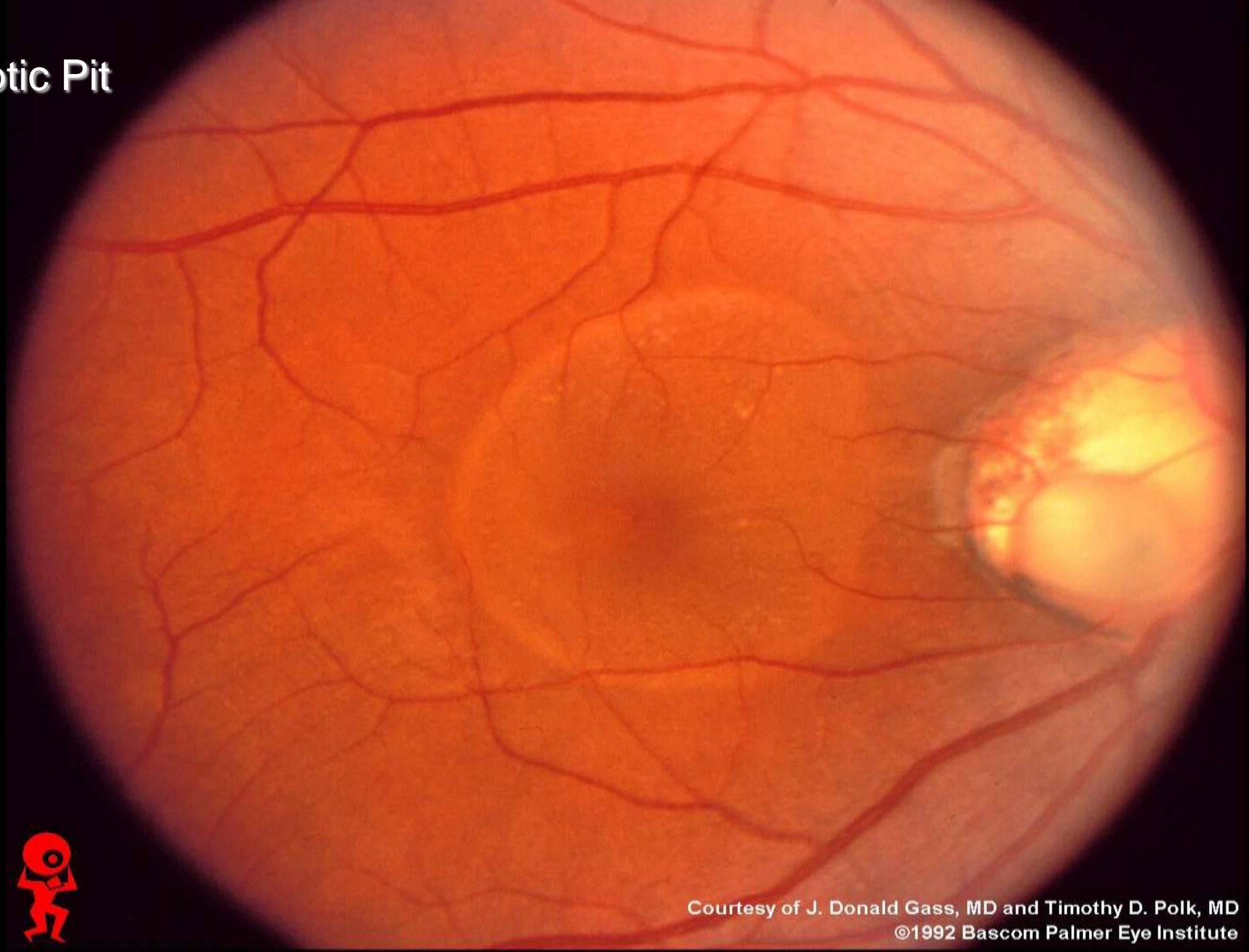


Glial Veil

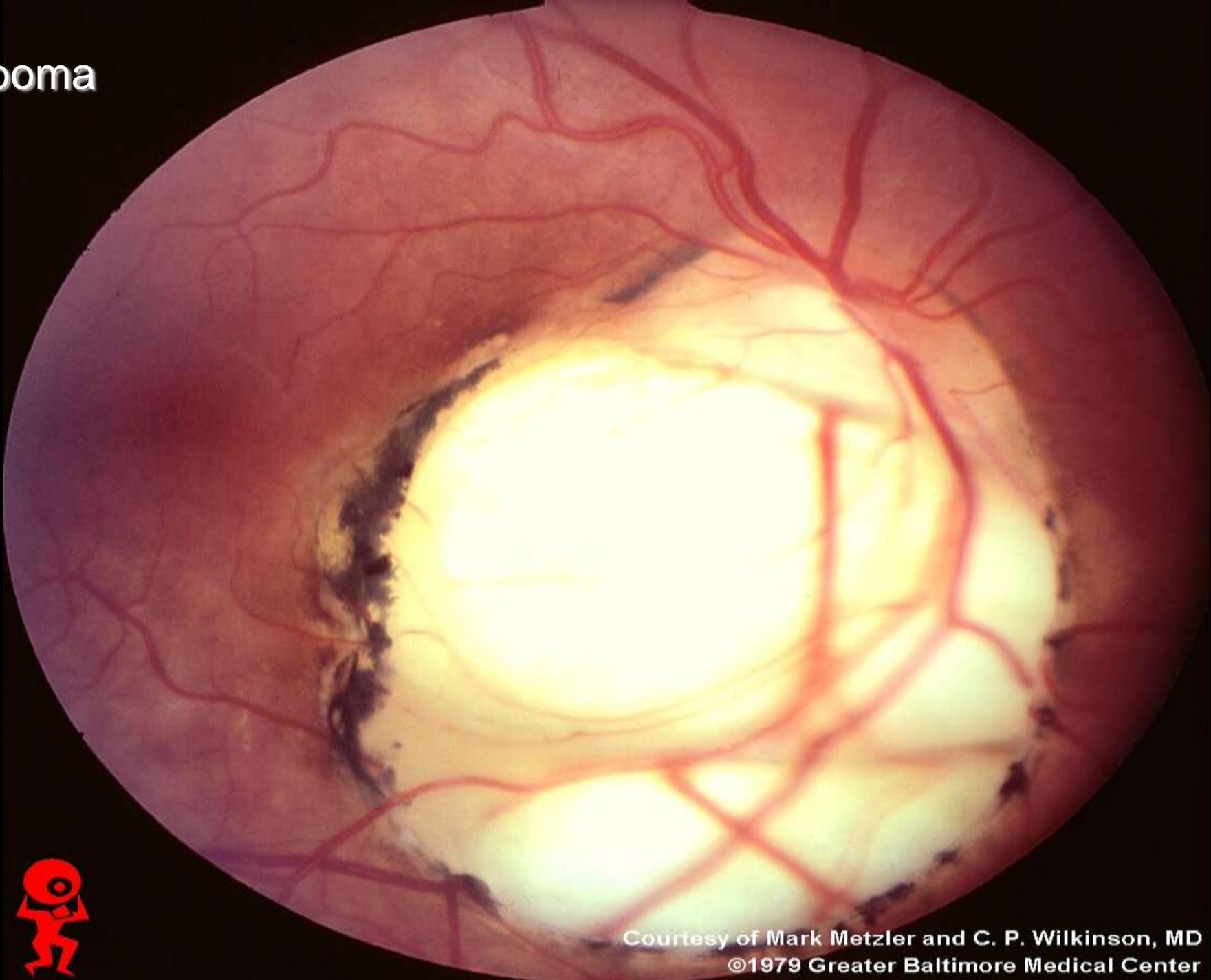


Courtesy of Mark Metzler and C. P. Wilkinson, MD
©1980 Greater Baltimore Medical Center

Optic Pit



Coloboma





Important
DATE!

10th March 2011

I am organising a National Retinal Screening Meeting for everybody involved in
Diabetic Retinal Screening

at the Royal Society of Medicine in London

The aim is to promote best practice, share solutions and
feed back frontline views to the NSP



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