



Ophthalmic involvement of Zika

ROHIT JOLLY

ST4

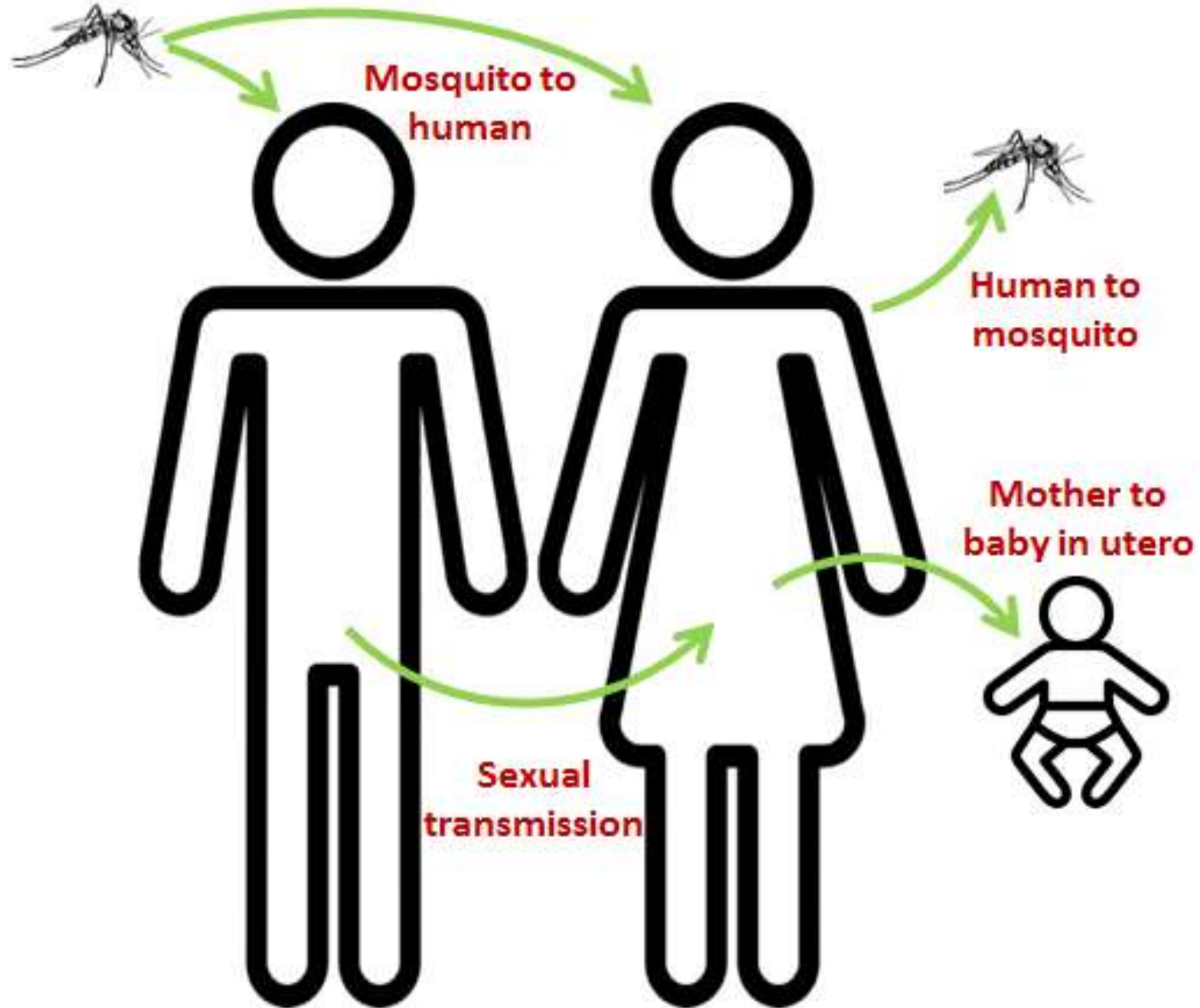
HILLINGDON HOSPITAL

What is Zika

- ▶ Member of Flaviviridae virus family
- ▶ Spread by day time active Aedes mosquito
- ▶ Named after Zika forest in Uganda
- ▶ Spread amongst humans via sexual intercourse, vertical transmission

- ▶ Declared public health emergency of international concern on 1st february 2016

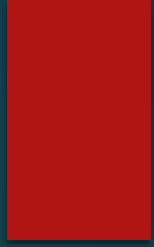
4 Zika Transmission Routes



The spread of the Zika virus

Countries and territories with active Zika virus transmission and reported cases





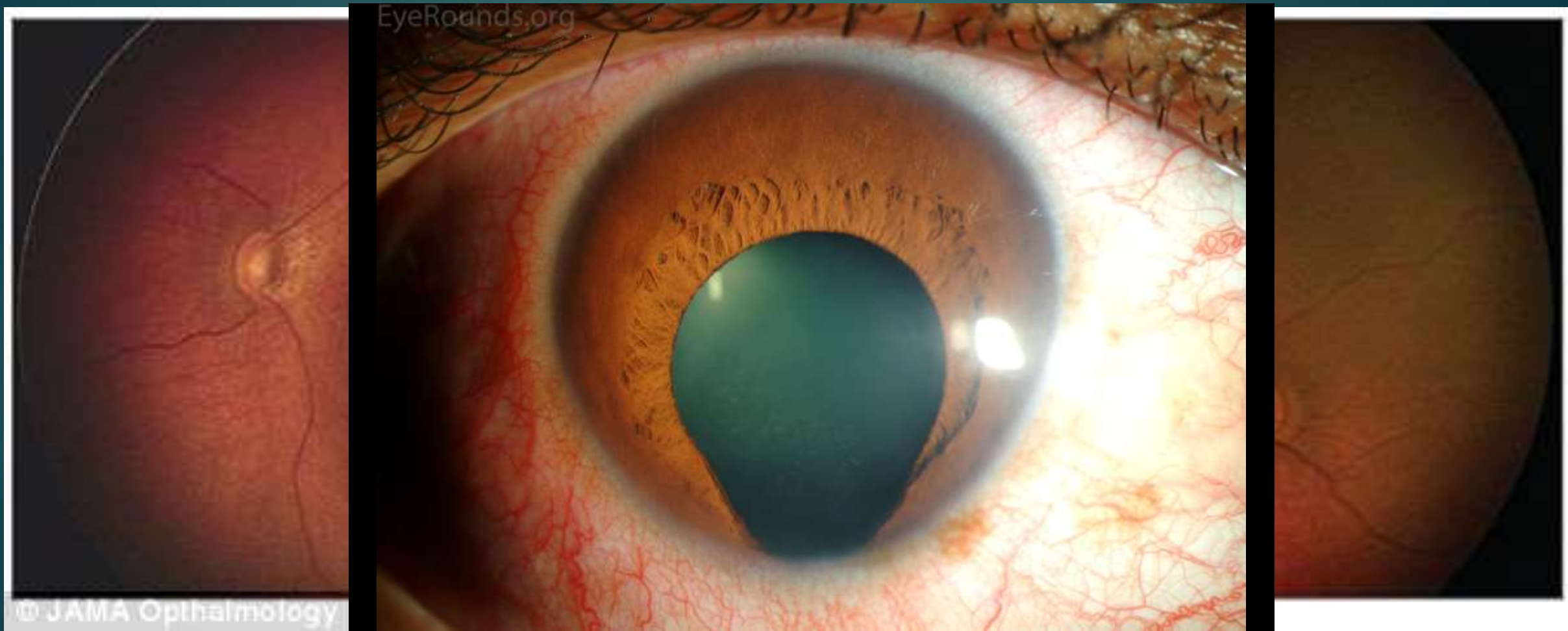
What do you feel

- ▶ Most cases asymptomatic
- ▶ Those that are symptomatic have:
 - ▶ Fever
 - ▶ Conjunctivitis
 - ▶ Arthralgia
 - ▶ Headache
 - ▶ Maculopapular rash

Should I worry

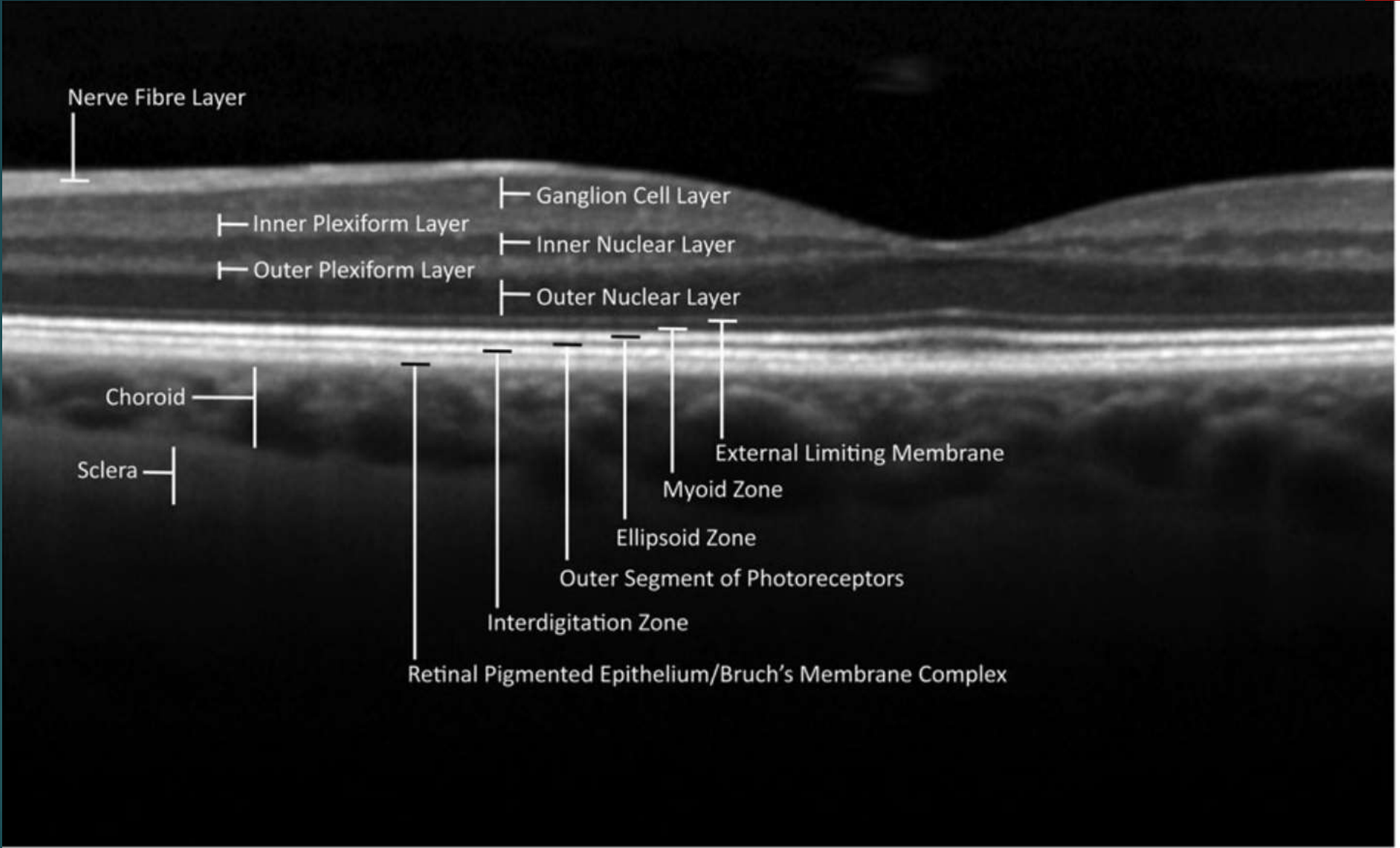
- ▶ Reports of vertical transmission causing microcephaly (1-20% and more in 1st trimester)
- ▶ Congenital Zika syndrome
- ▶ Guillan Barre Syndrome (1-3 per 10000)

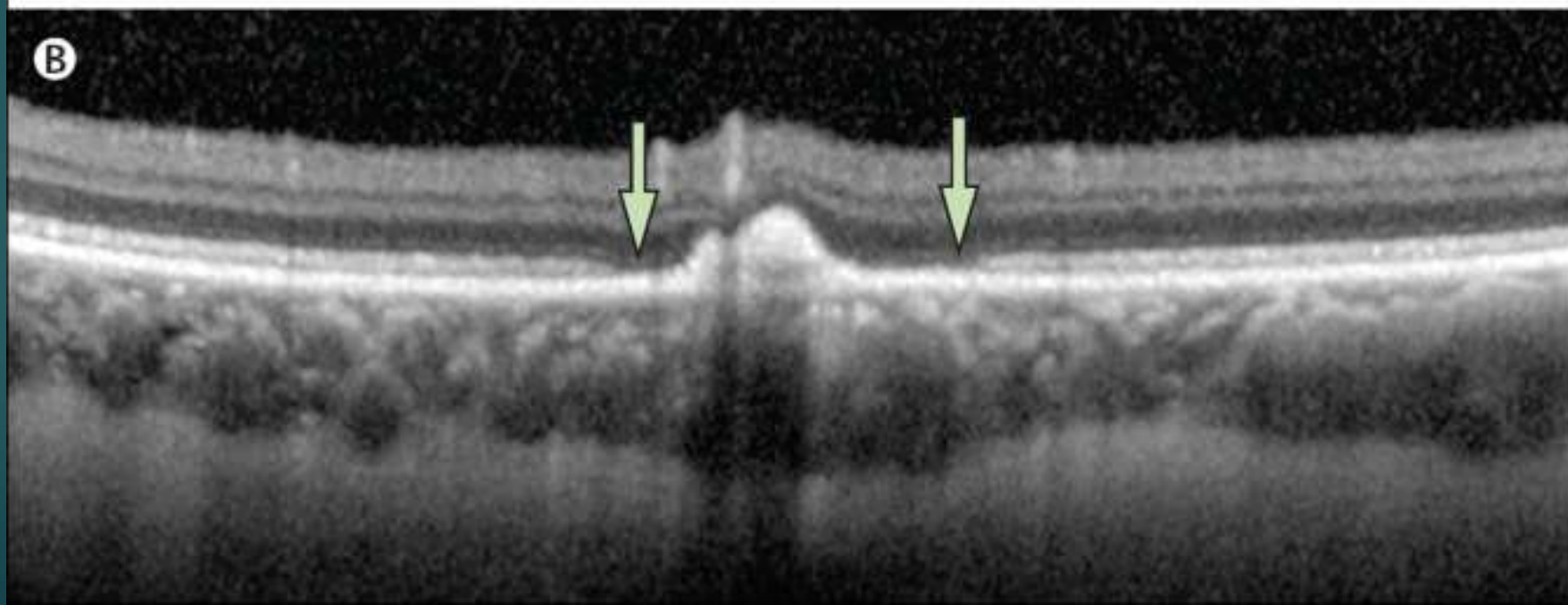
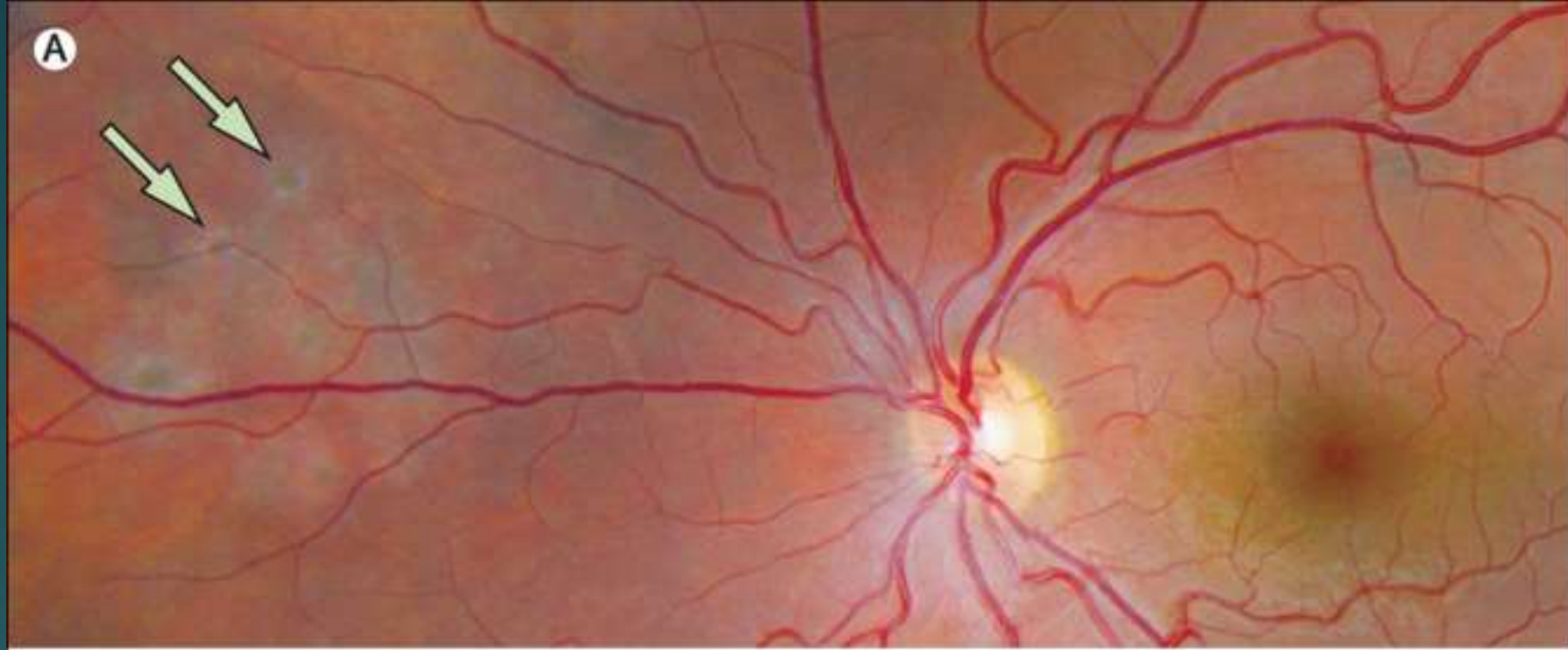
Should Eye really worry

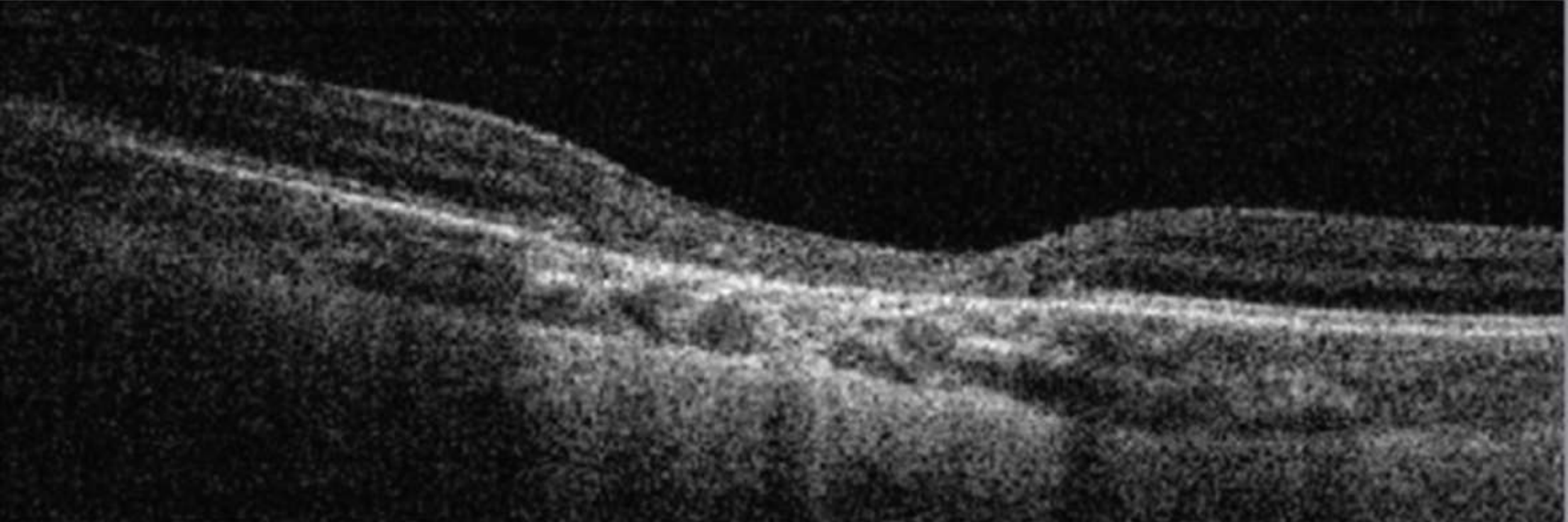


Should Eye really worry

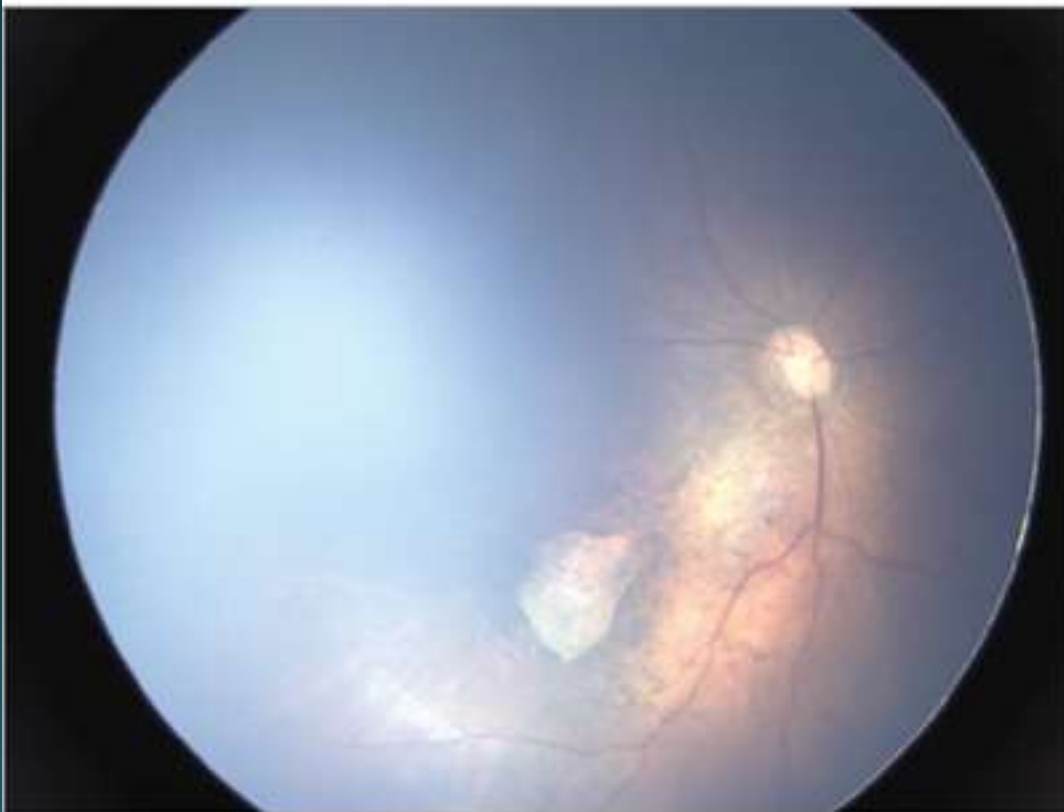




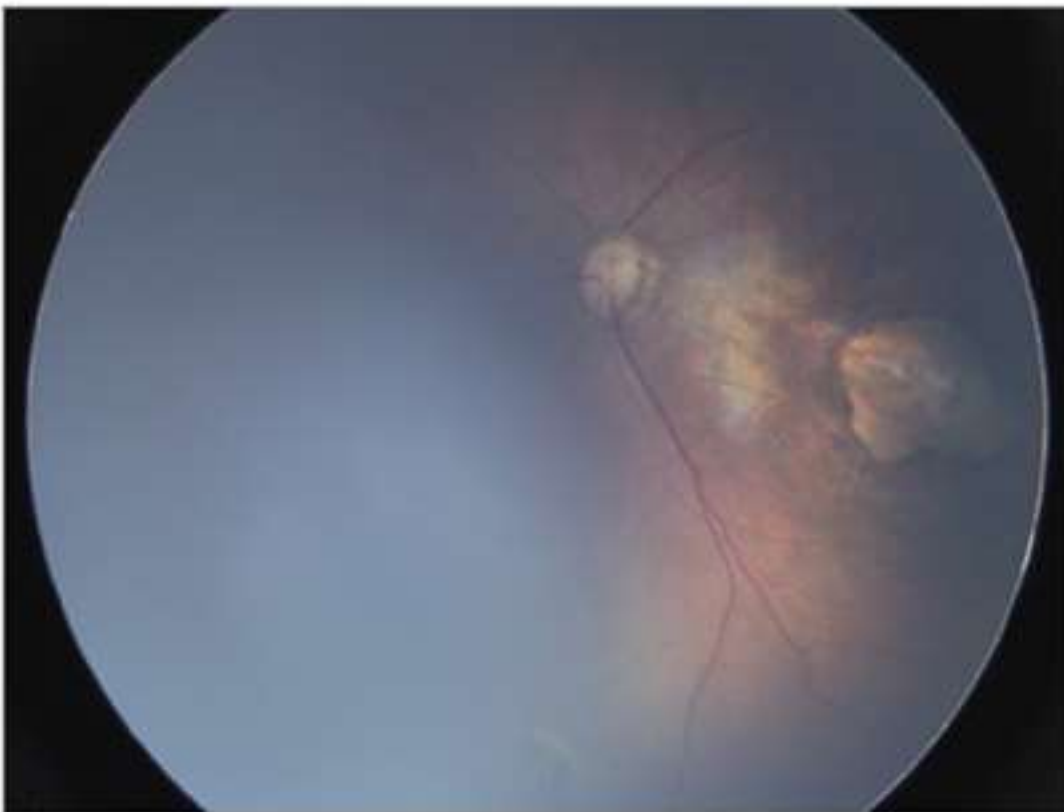




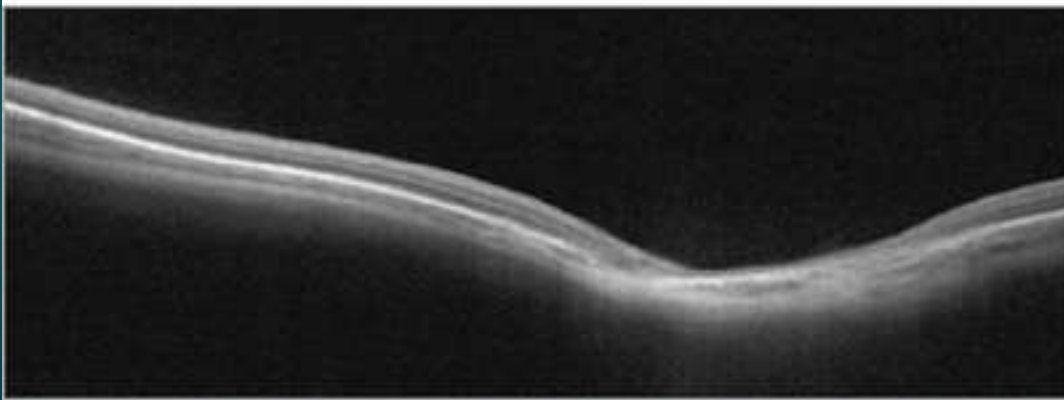
A Right eye



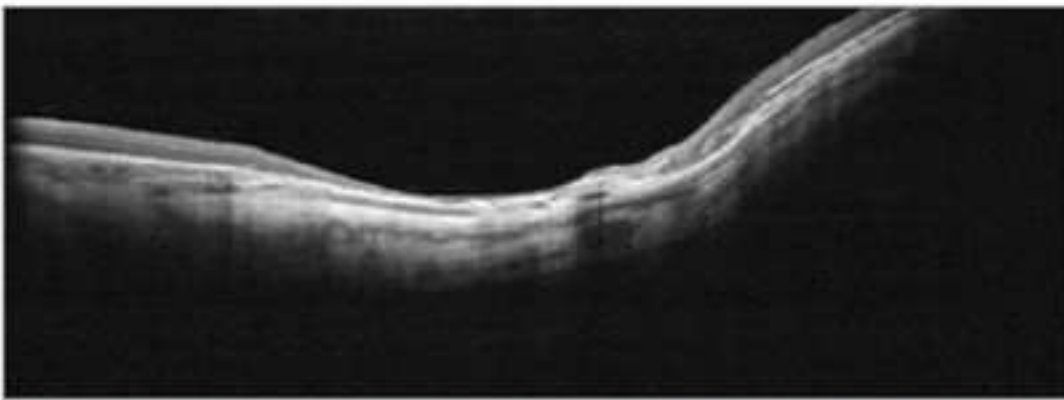
B Left eye



C Spectral-domain OCT, right eye



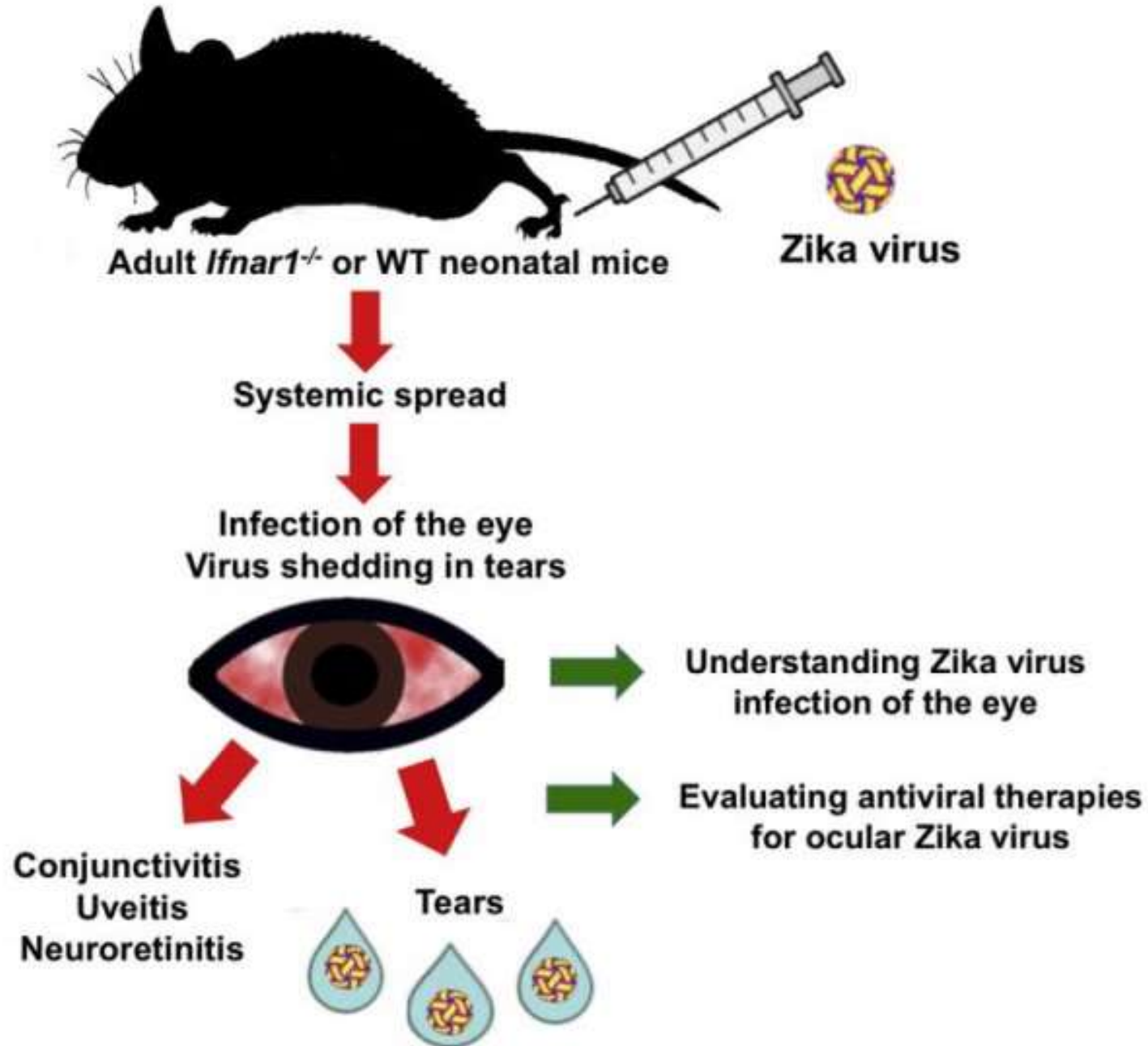
D Spectral-domain OCT, left eye



OCT findings of chorioretinal lesions

- ▶ The main OCT findings identified in the present group of infants with CZS included severe neurosensory retinal thinning with discontinuation of the ellipsoid zone associated with choroidal thinning and a hyperreflectivity underlying the atrophic RPE.

Zika virus infection of the eye



Treatment

- ▶ Treat the symptoms.
- ▶ Get plenty of rest.
- ▶ Drink fluids to prevent dehydration.
- ▶ Take medicine such as paracetamol to reduce fever and pain.
- ▶ Do not take aspirin and other non-steroidal anti-inflammatory drugs (NSAIDs) until dengue can be ruled out to reduce the risk of bleeding.

And so...

- ▶ Further work needed to identify true mechanism of transmission if at all, of virus through bodily fluids especially tears\
- ▶ WHO estimates the world has lost out on 3.5 billion dollars through health costs and loss of death and productivity

Thank you