



12 - 15 March 2026

Novotel JECC, Jaipur

84th Annual Conference of All India Ophthalmological Society

Meeting Room L-05
12.03.2026
16.30-17.40

[View abstract - IC19](#)

Chief instructor membership number

D08987

Section

Ocular Pathology / Ocular Oncology and Tumors

Title of the Course

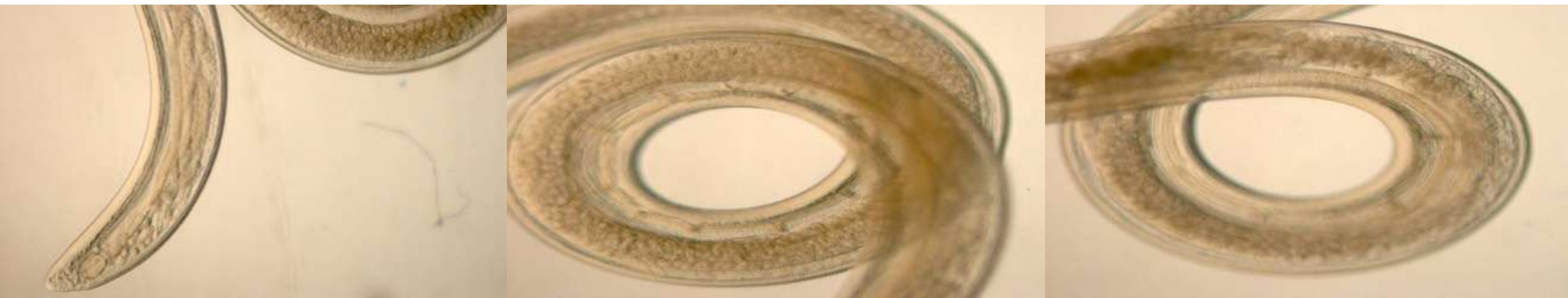
Chief instructor name

Dr.Dipankar Das

Level of course

Advance

IC-19:Parasitic eye diseases: Case based course



IC-19:Parasitic eye diseases: Case based course

Synopsis

Parasitic eye diseases are prevalent in India. Clinico-pathological correlations are very important to diagnose them completely. Anterior segment, posterior segment, orbital and adnexal ophthalmic parasites will be dealt in the course. A relatively newer entity like diffuse unilateral subacute neuroretinitis will be covered here. Ocular parasites may cause numerous complications in the eye including choroidal neovascularization by dead worms will be presented. Highlights of the course includes various nuances in ancillary investigations such as fluorescein angiography, optical coherence tomography on posterior segment parasitic diseases; in-vivo and in -vitro live imaging of the ocular parasites; newer staining methods on the diagnosis of parasites; histopathology; advanced/ scanning electron microscopy and spectroscopy studies. The course will be beneficial for ophthalmic postgraduates, fellows, clinicians and ophthalmic pathologists/ microbiologists

IC-19:Parasitic eye diseases: Case based course

Order No	Instructor details	Topic	Duration
1	Dr.Dipankar Das [D08987], dr_dasdipankar@yahoo.com, 9864207627	Introduction	5
2	Dr.Dipankar Das [D08987], dr_dasdipankar@yahoo.com, 9864207627	Anterior segment parasitic eye diseases-Case based	12
3	Dr.Jyotirmay Biswas [B02635], drjb@snmail.org, 9841428151	Posterior segment parasitic diseases- Case based	12
4	Dr.Yashdeep Das [D25905], yashdeep.das@gmail.com, 8224003491	Parasitic diseases of orbit and adnexa-Case based	12
5	Prof.Reema Bansal [B11127], drreemab@rediffmail.com, 9878011253	Diffuse unilateral subacute neuroretinitis- Case Based	12
6	Dr.Debdulal Chakraborty [C10922], devdc@rediffmail.com, 9433059923	Complications of parasitic eye diseases- Case based	12
Total duration(include panel discussion : 5 Mins)			70 Mins



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IC-19: Parasitic eye diseases: Case based course

Anterior segment parasitic eye disease: Case based



Dr. Dipankar Das
Senior Consultant & HOD
Department of Ocular Pathology,
Uveitis & Neuro-Ophthalmology
Services



SRI SANKARADEVA
NETHRALAYA



Financial Disclosure(s)

**I have no financial or commercial interest
in any materials discussed in this presentation**



**SRI SANKARADEVA
NETHRALAYA**

Problem

Parasitic zoonotic diseases are prevalent globally and in India

Proper epidemiological data are lacking from this part of the country on zoonotic parasitic diseases and newer diseases are emerging in our scenario

Parasitic diseases of zoonotic importance in of northeast India, with special reference to involvement

Dipankar Das¹, Saidul Islam², Harsha Bhattacharjee¹, Angshuman Deka¹, Dina
Prerana Sushil Tahiliani¹, Panna Deka¹, Pankaj Bhattacharyya¹, Satyen Deka¹, K
Gayatri Bharali¹, Apurba Deka¹, Rajashree Das
Eye & Brain

Update on pathology of ocular paras

Dipankar Das¹, Varsha Ramachandra², Saidul Islam³, Harsha Bhatt
Akanksha Koul², Panna Deka², Apurba Deka²

Affiliations + expand

PMID: 27958200 PMCID: PMC5200979 DOI: 10.4101/2019.9
WJ Review

Case based Presentations...



National Library of Medicine
National Center for Biotechnology Information

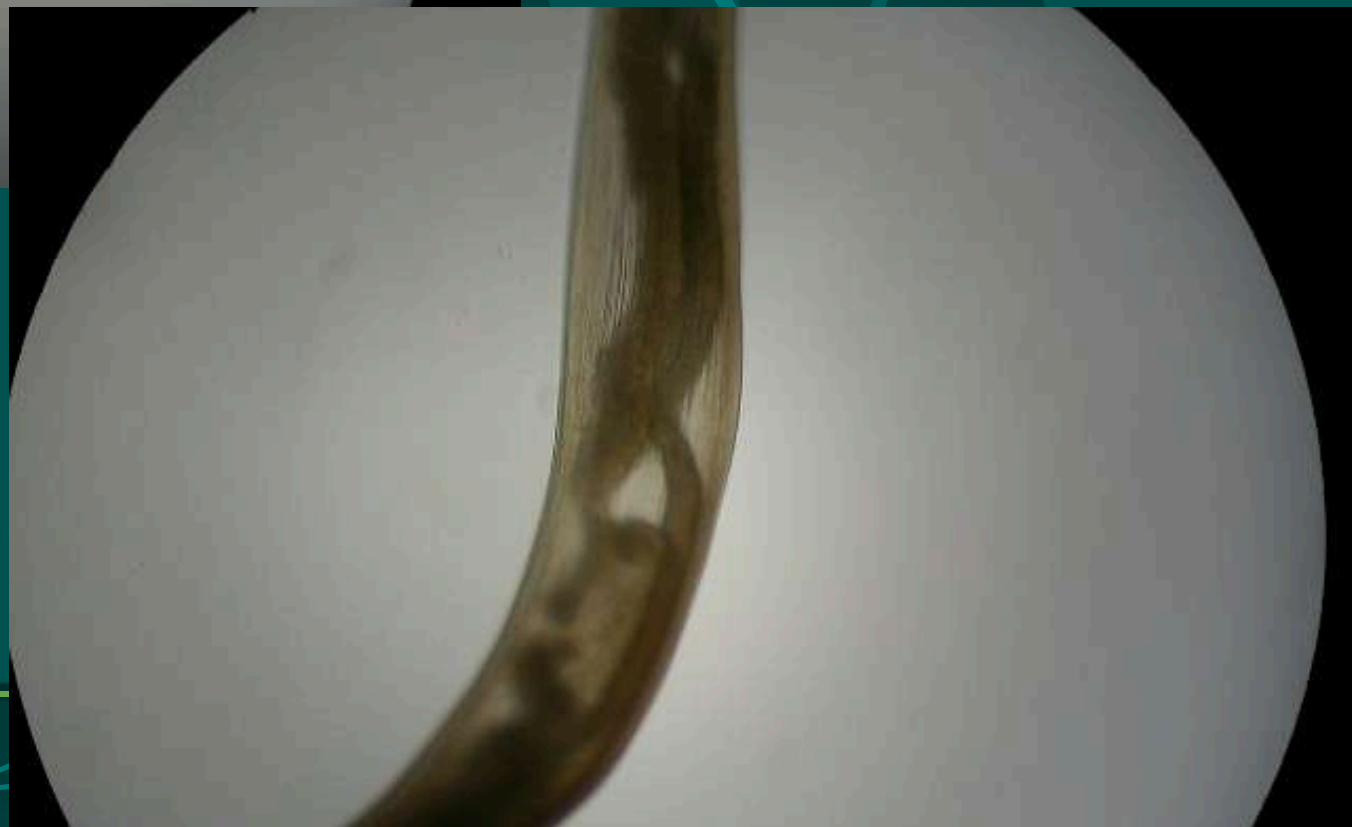
OJO A rare case of anterior chamber dirofilariasis

Dipankar Das¹, Kalyan Das¹, Saidul Islam², Kasturi Bhattacharjee¹, Harsha Bhattacharjee¹,
Shrutanjoy Mohan Das¹, Apurba Deka¹

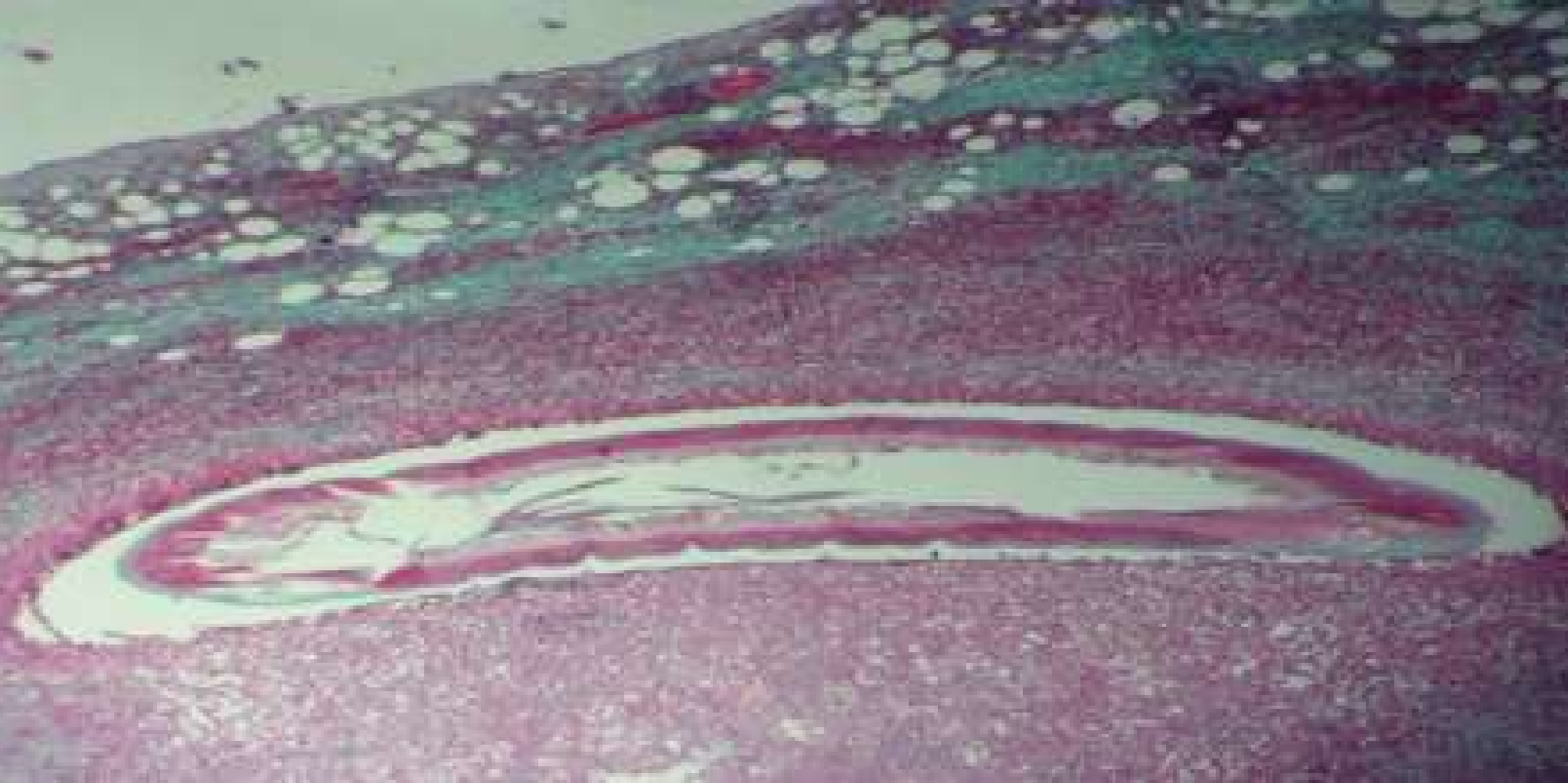
Affiliations + expand

PMID: 25709276 PMCID: [PMC4333545](#) DOI: [10.4103/0974-620X.149868](#)









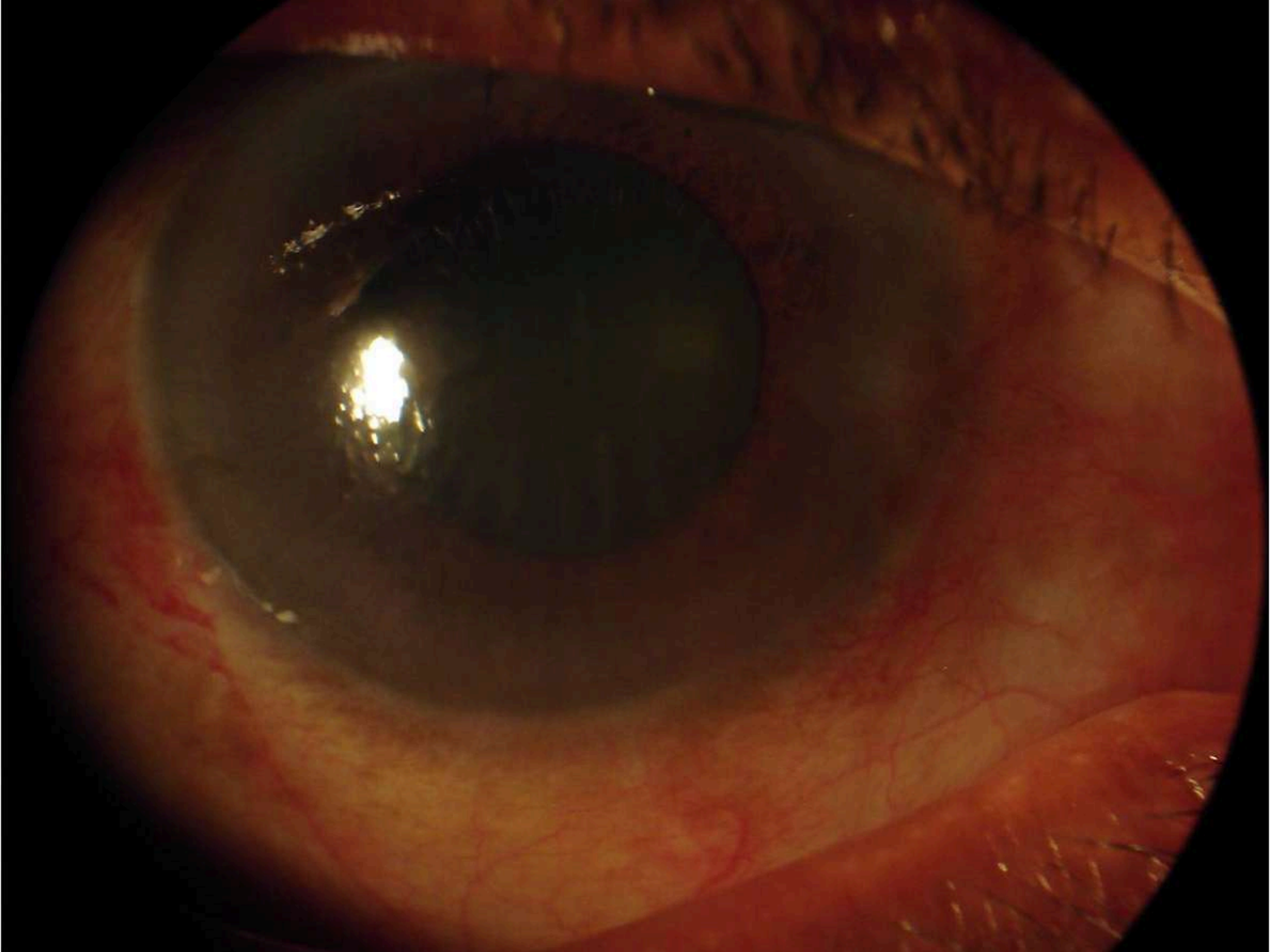
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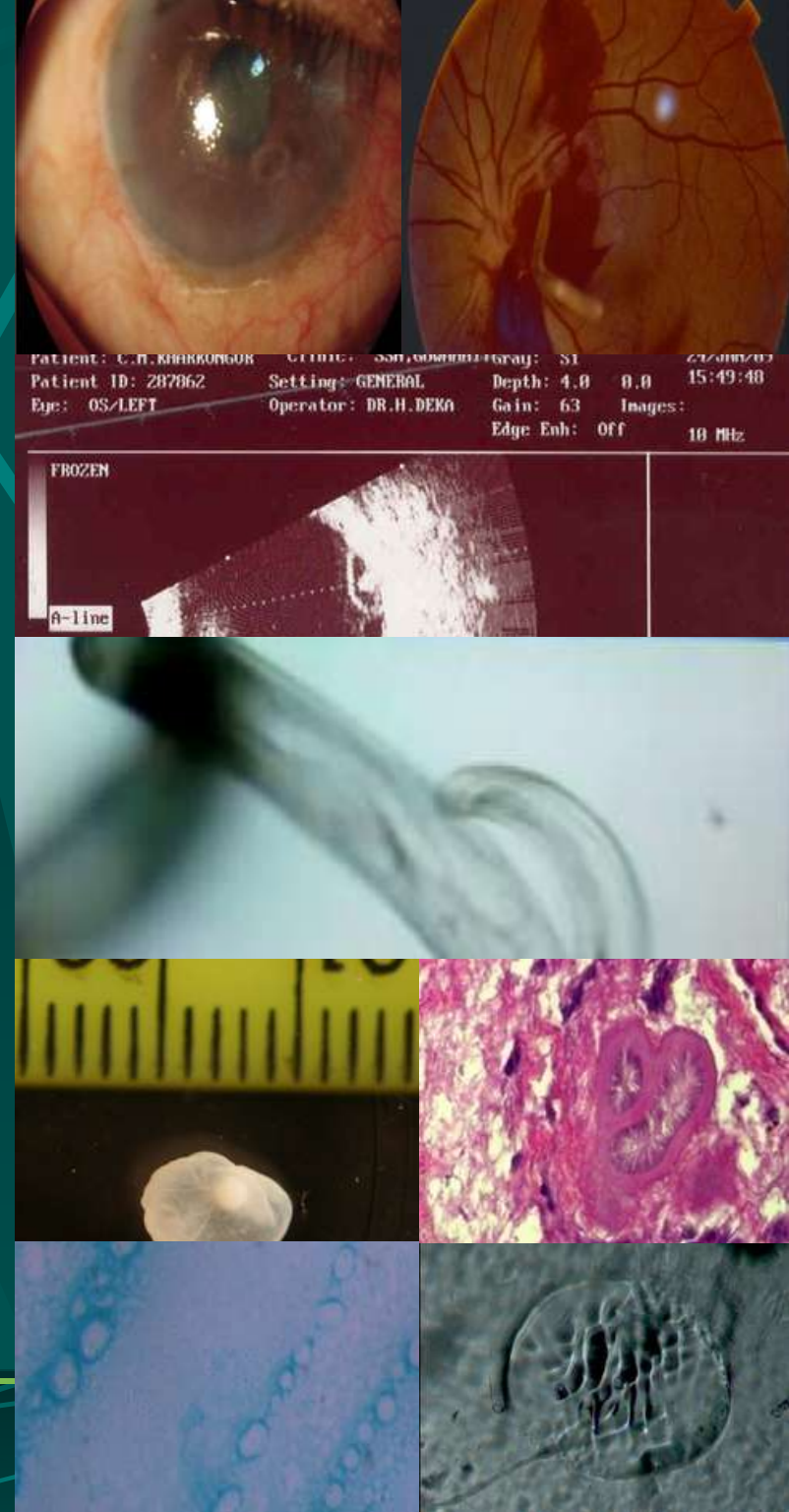
Affiliations + expand

PMID: 25709276 PMCID: [PMC4333545](#) DOI: [10.4103/0974-620X.149868](#)

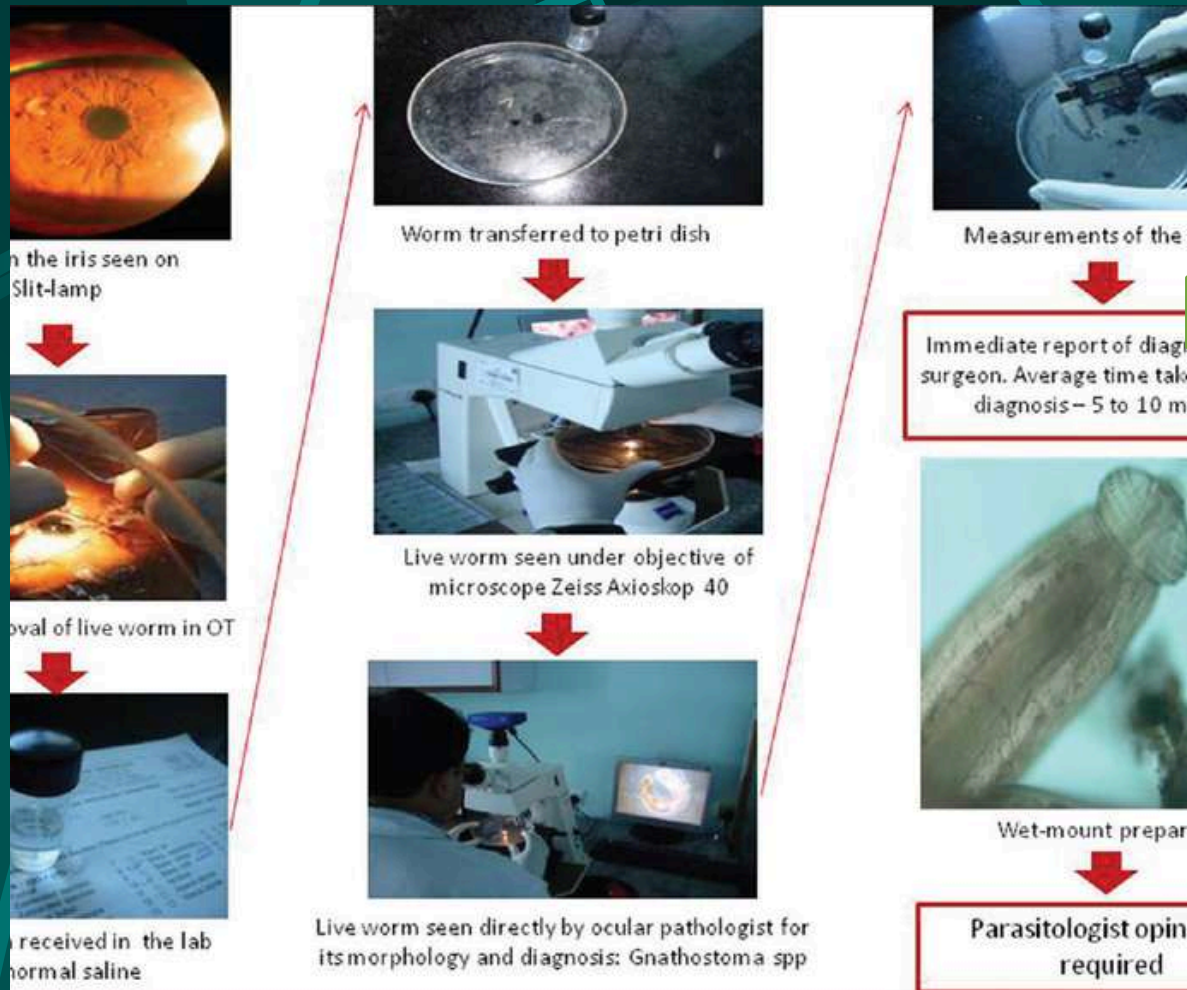


Diagnosis was based on:

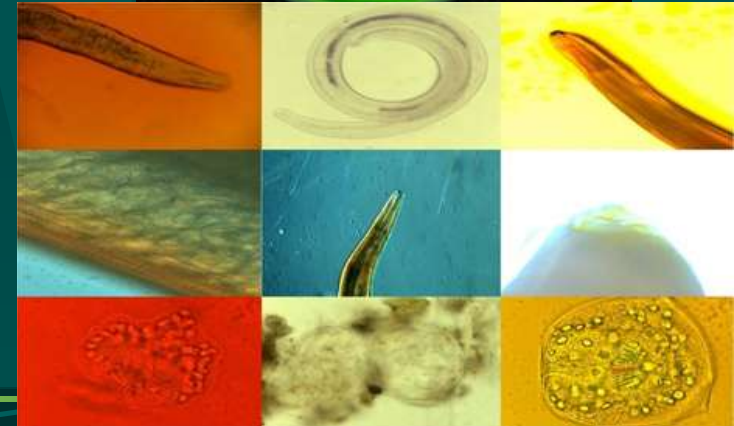
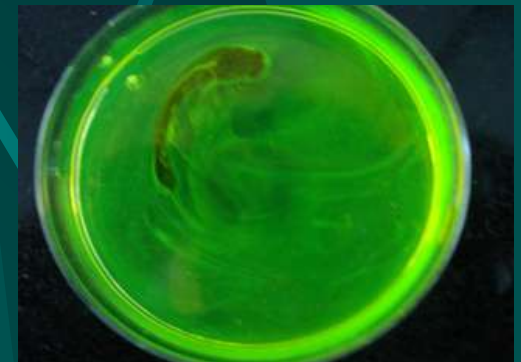
- Clinical History
- External examination including skin
- Slit lamp examination including AT, Gonio
- Fundus examination (Slit-lamp bio - microscopy using 90-D lens & by Indirect Ophthalmoscopy using 20D lens)
- Ultrasound B scan
- Fundus Fluorescein angiography, OCT, Electro-physiology test-Optional
- Serological tests like ELISA (in selected cases)
- CT scan/MRI
- Direct live examination of parasite under microscope, SEM, EDX
- Eosinophil count, AEC, stool examination



Unique Methodology



Fluorescein ($C_{20}H_{12}O_5NA$) Stain



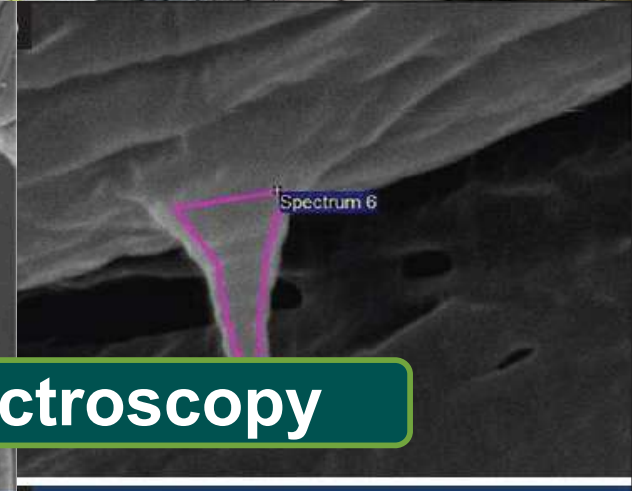
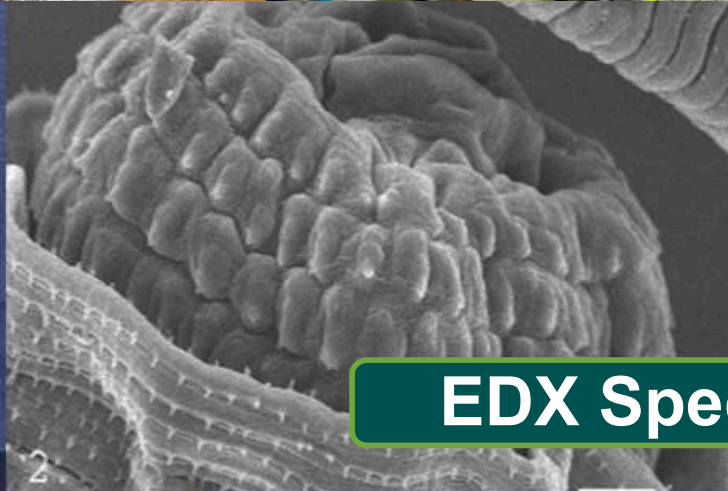
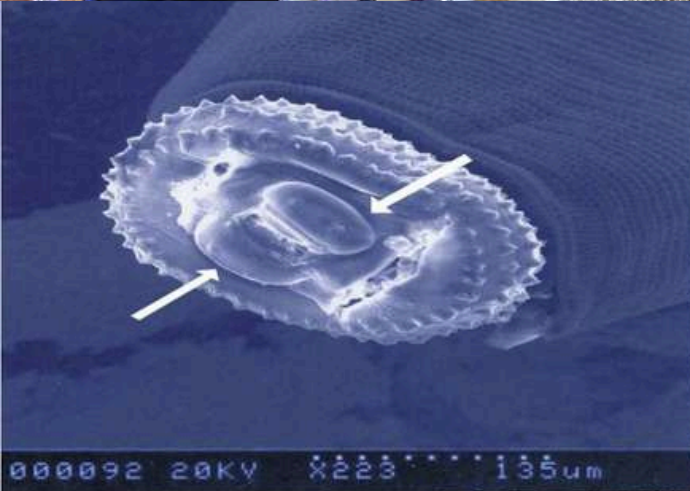
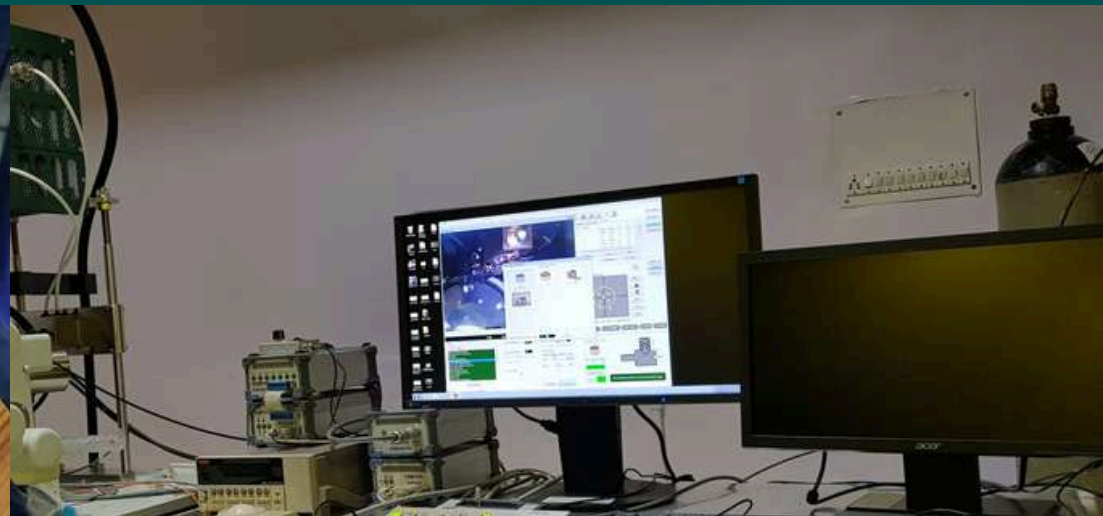
Das D, Deka P, Bhattacharjee H, Deshmukh S, Gupta P, Deka A, et al. Fluorescein dye as a novel cost-effective approach for staining raw specimens in ophthalmic pathology. Indian J Ophthalmol 2020;68:2175-8.



Direct examination of
live parasite under
compound microscope



Scanning Electron Microscopy

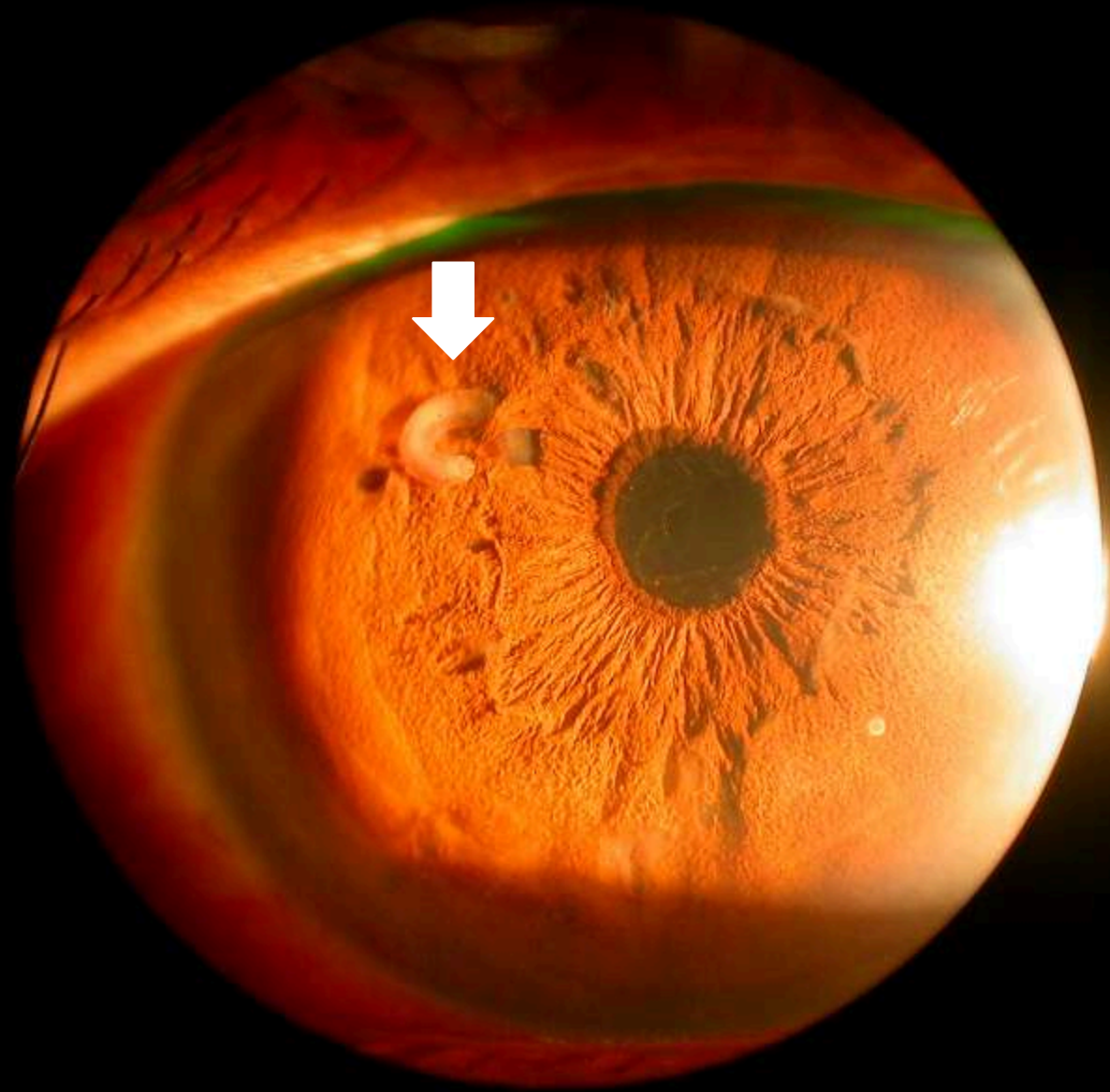


EDX Spectroscopy

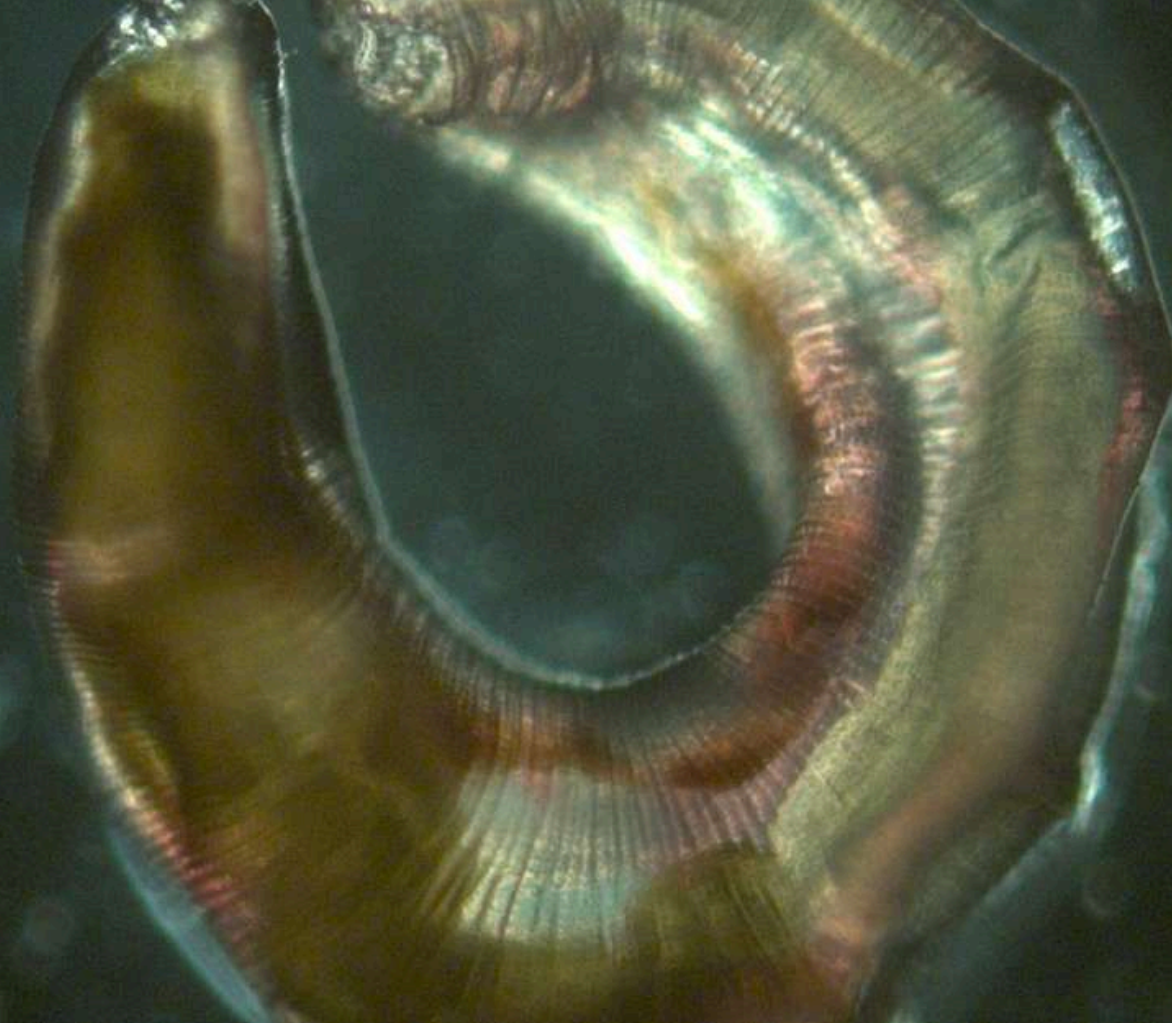


Dey, S. A new rapid airdrying technique for scanning electron microscope using tetramethylsilane: Application to mammalian tissue. Cytobios;1992: 73:17.

Case





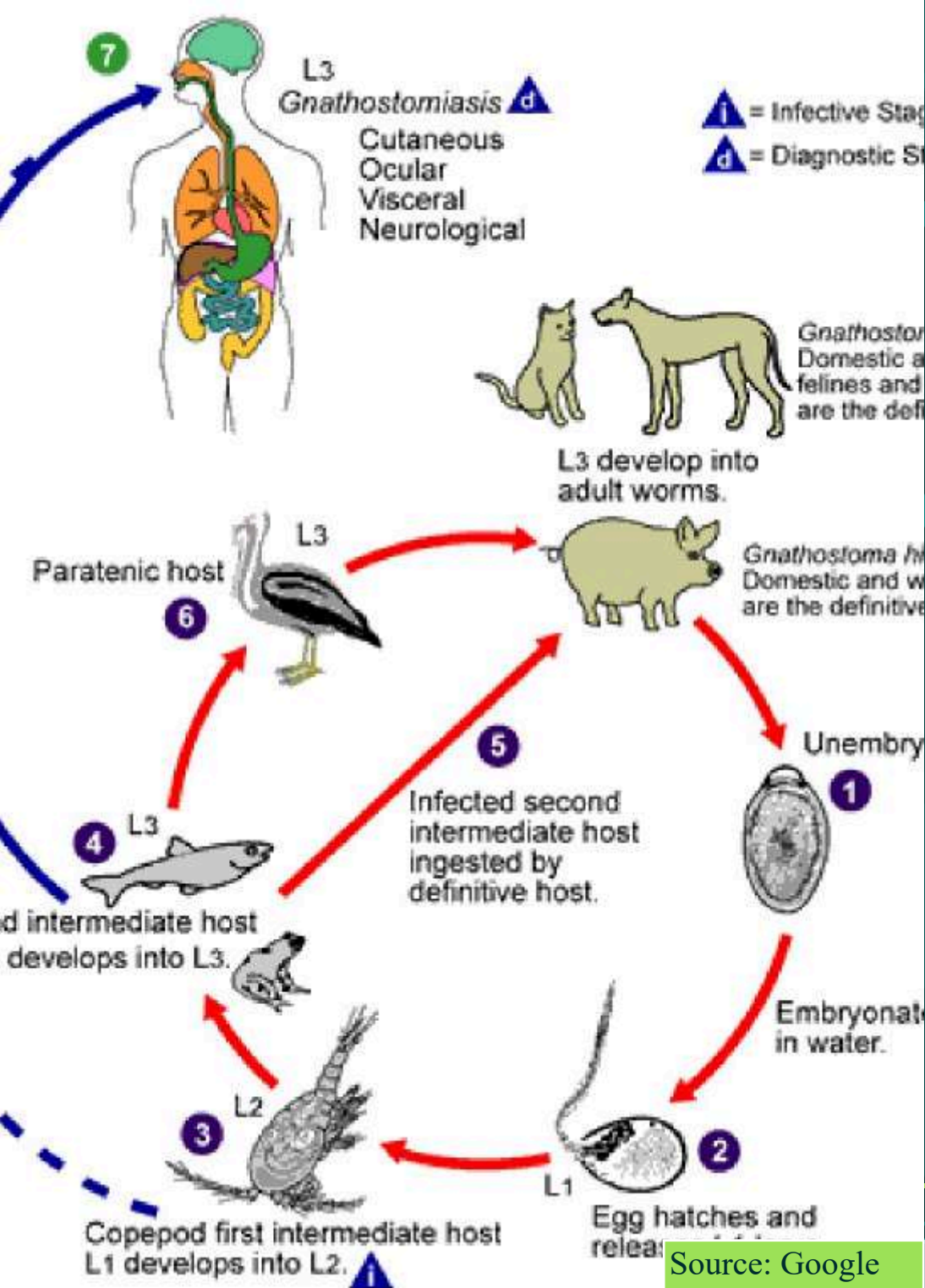


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Parasitic diseases of zoonotic importance in of northeast India, with special reference to involvement

Dipankar Das¹, Saidul Islam², Harsha Bhattacharjee¹, Angshuman Deka¹, Dina
Prerana Sushil Tahliliani¹, Panna Deka¹, Pankaj Bhattacharyya¹, Satyen Deka¹, K
Gayatri Bharali¹, Apurba Deka¹, Rajashree

Eye & Brain



Gnathostoma

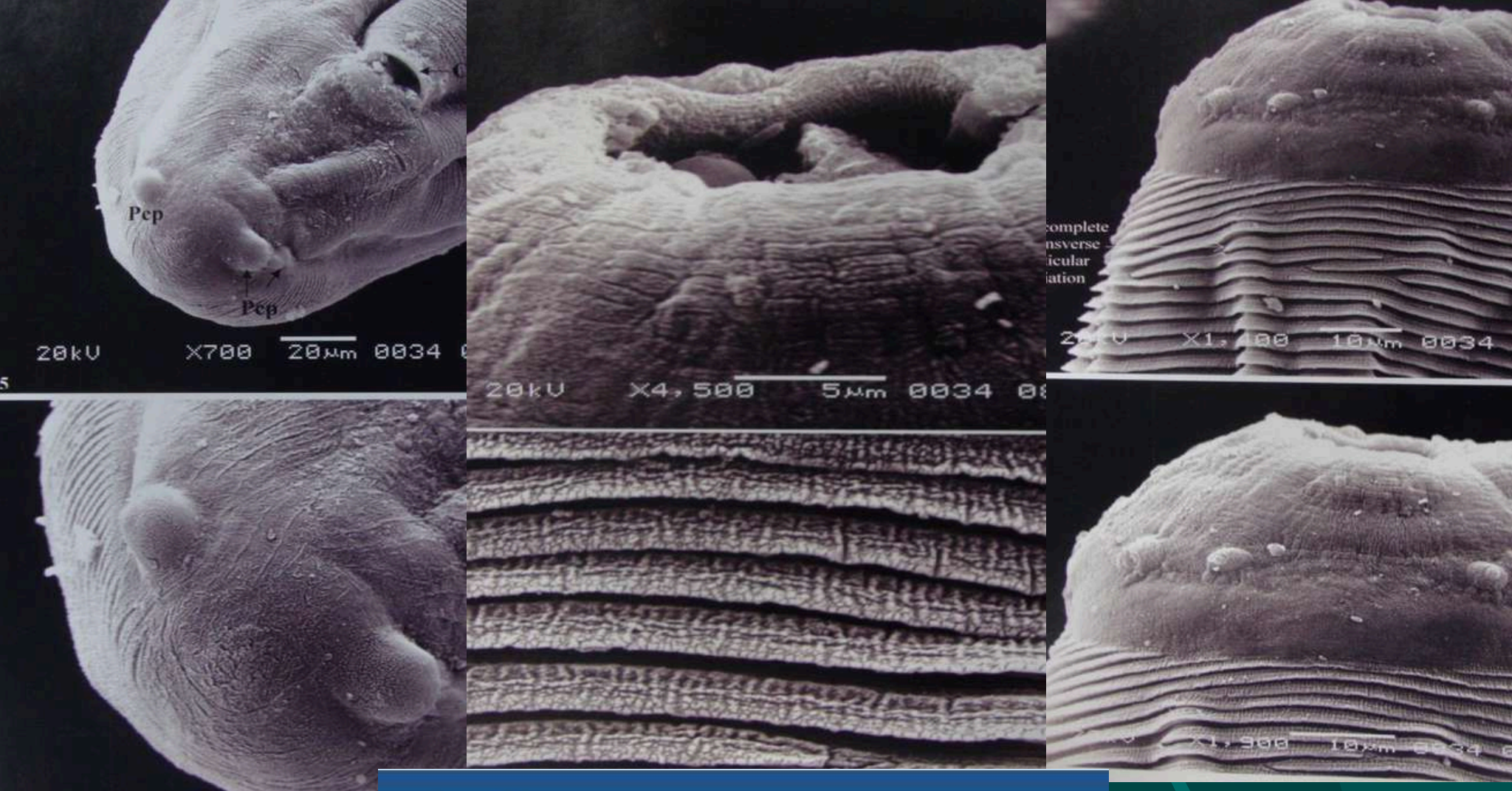
Rare intraocular parasite

Parasite is surgically removed live

Migration of worm, iris hole

No known medication



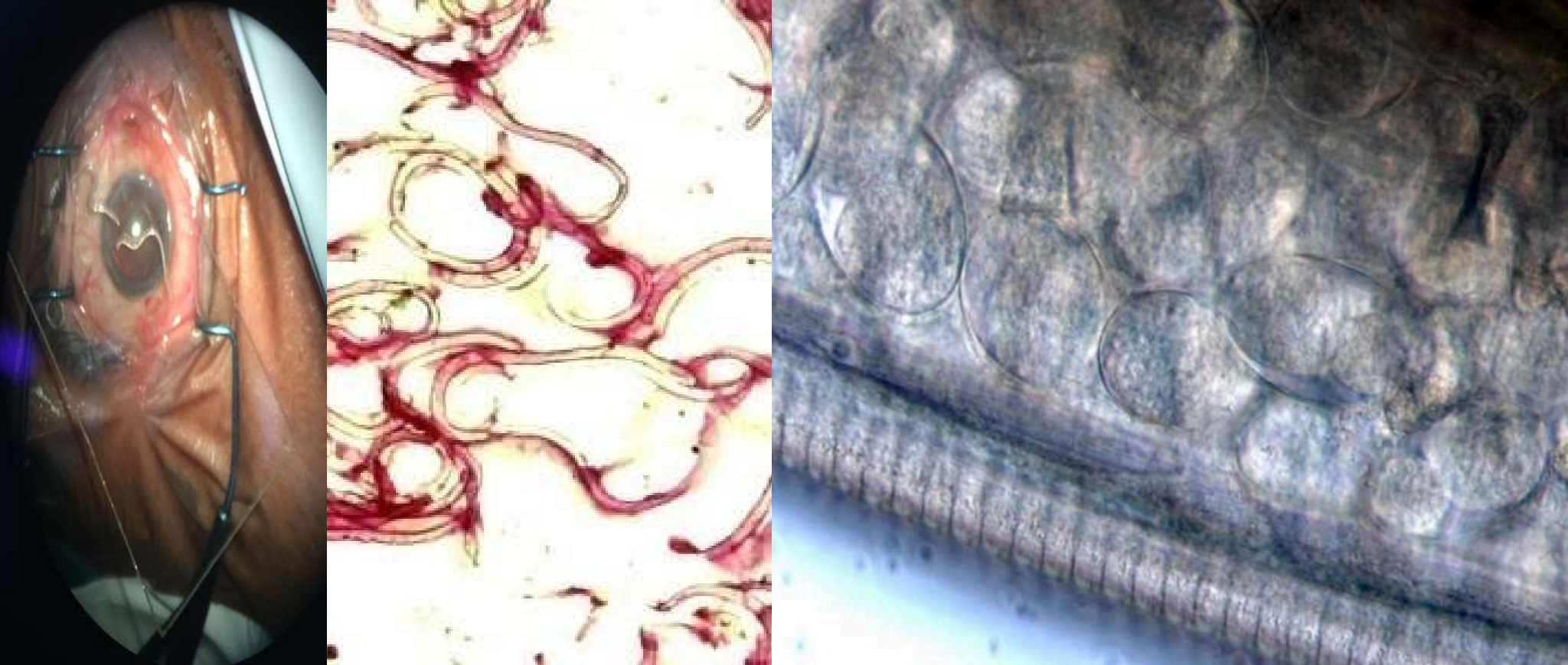


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Parasitic diseases of zoonotic importance in humans of northeast India, with special reference to ocular involvement

Dipankar Das¹, Saidul Islam², Harsha Bhattacharjee¹, Angshuman Deka¹, Dinakumar Yarram¹, Prerana Sushil Tahiliani¹, Panna Deka¹, Pankaj Bhattacharyya¹, Satyen Deka¹, Kalyan Das¹, Gayatri Bharali¹, Apurba Deka¹, Rajashree Paul¹

Eye & Brain



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Human ocular thelaziasis caused by *callipaeda* - A unique and rare case report

Meenakshi Sharma¹, Dipankar Das², Harsha Bhattacharjee¹, Saidur Gayatri Bharali¹, Sumegha Tomar¹, Priyank Bhola¹, Apurba Deka²

Affiliations + expand

PMID: 30672496 PMCID: PMC6376820 DOI: 10.1103/ijo.IJO_1110_



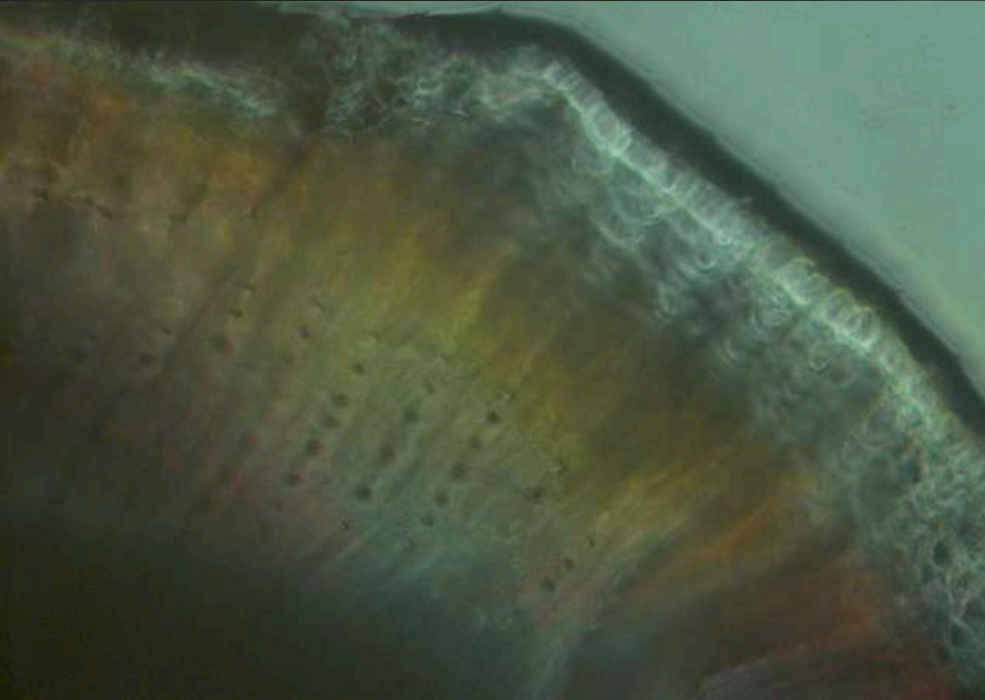
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Live encysted *Thelazia callipaeda* presenting as a lump adjacent to the right lacrimal sac in a 42-year-old female: A rare case report

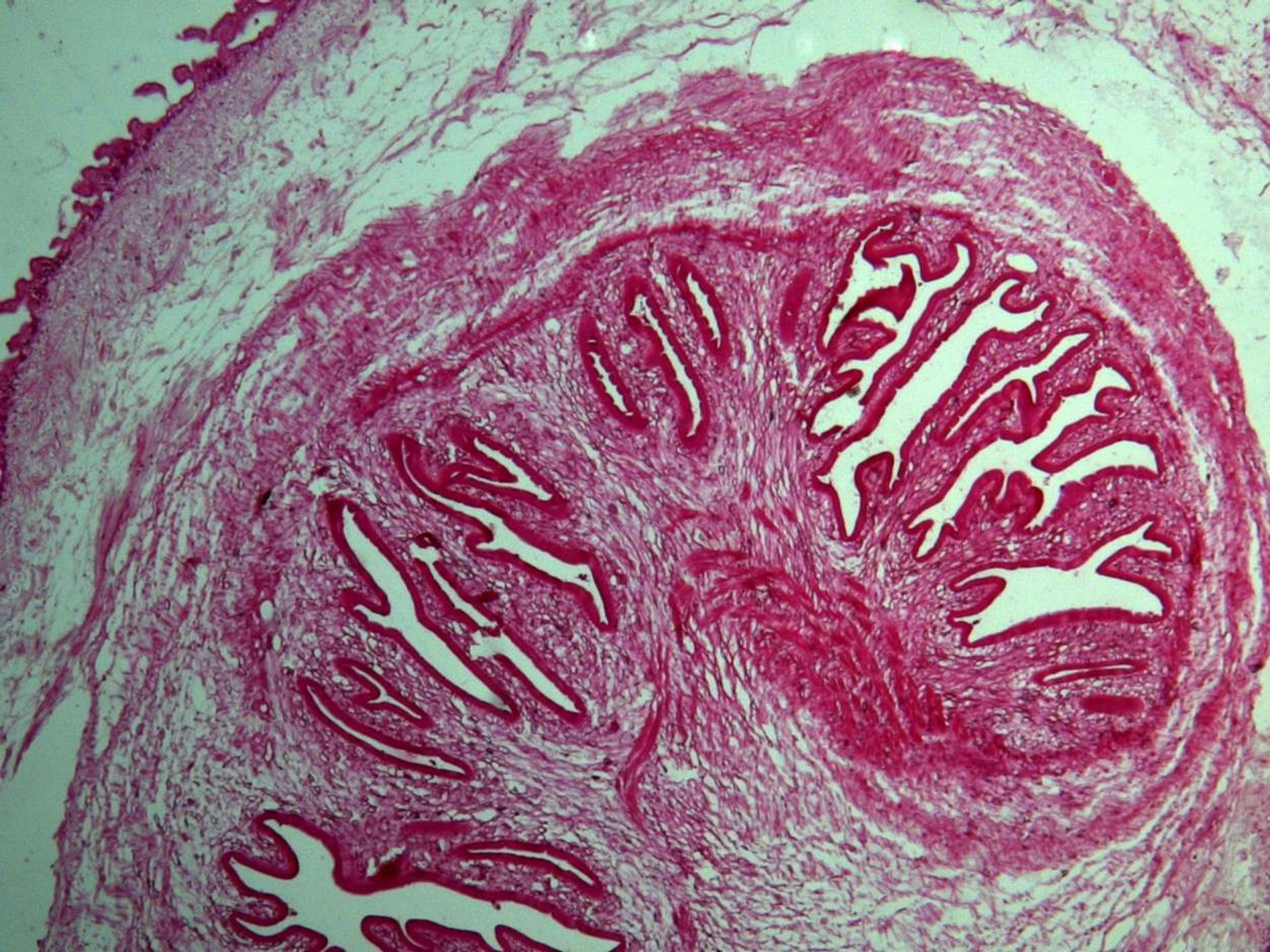
Jayanta Kumar Das¹, Dipankar Das², Saurabh Deshmukh³, Krati Gupta³, Sumegha Singh Tomar³, Erani Borah³

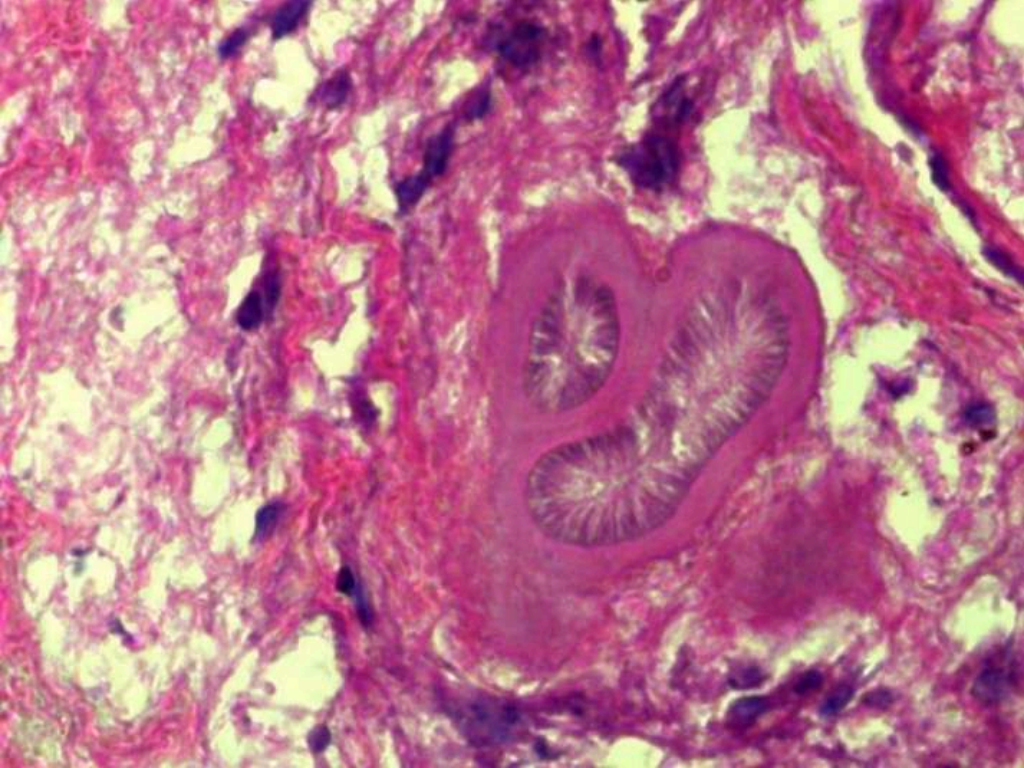
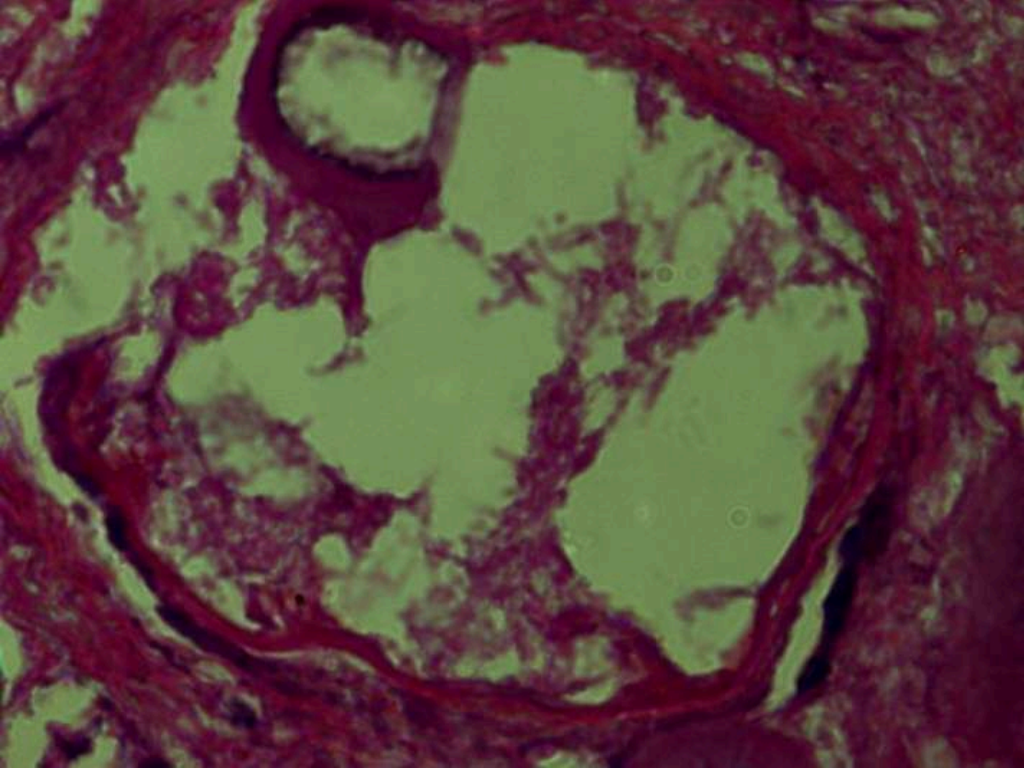
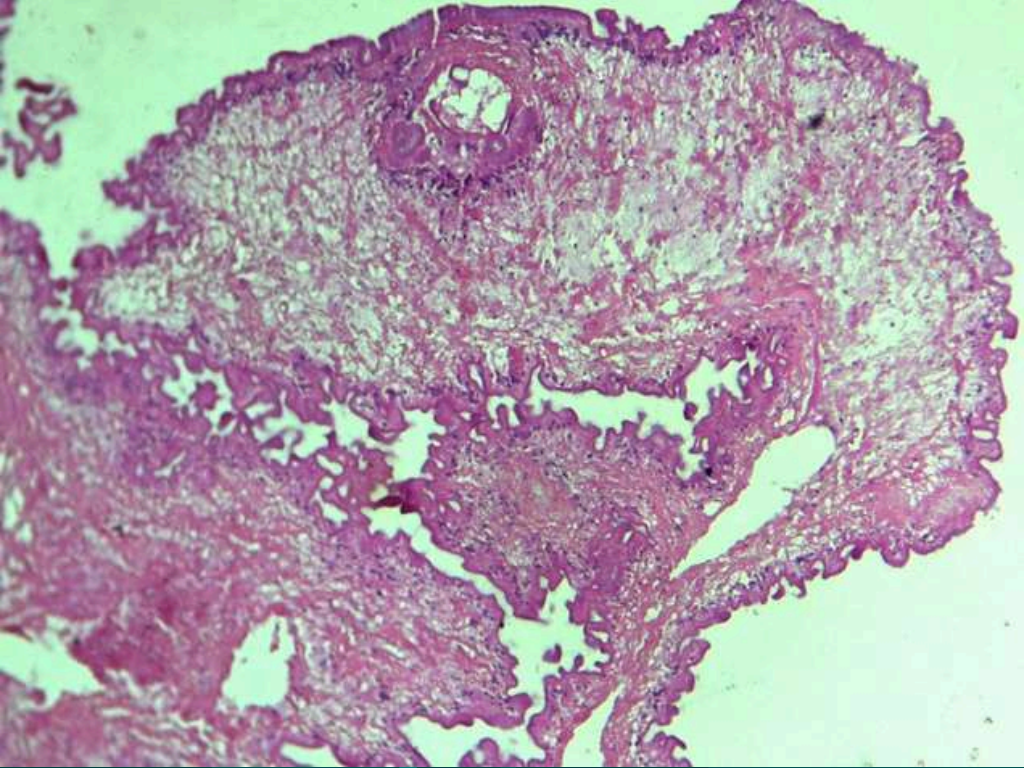
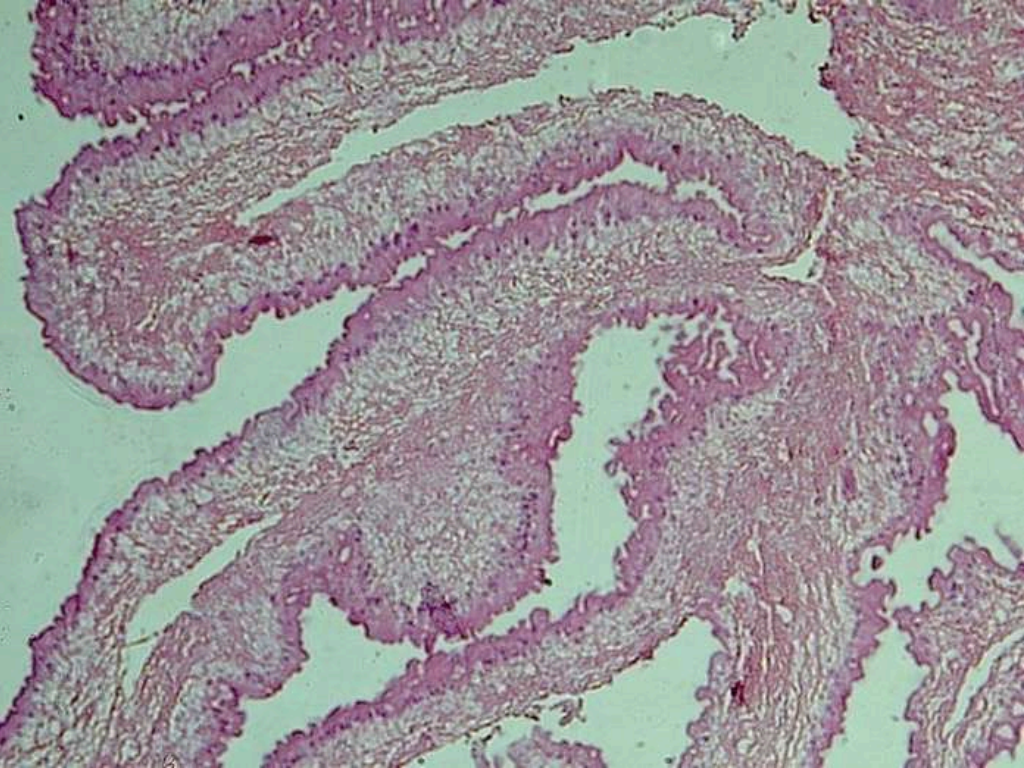
Affiliations + expand

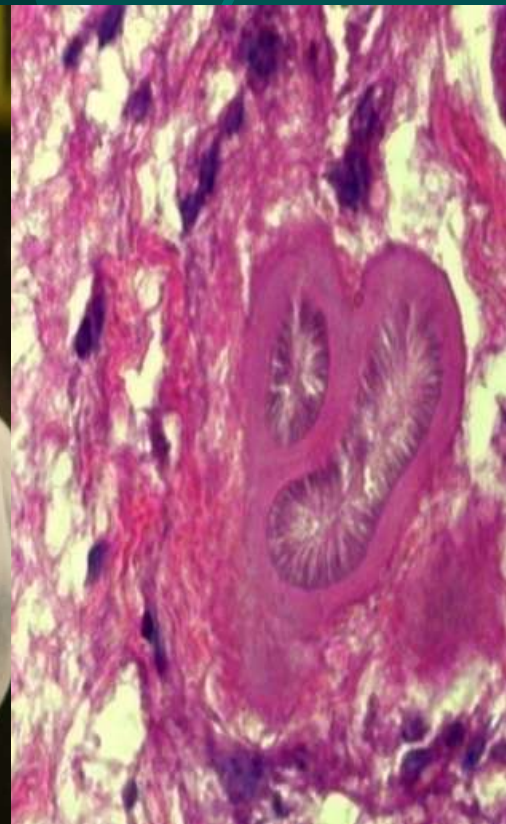
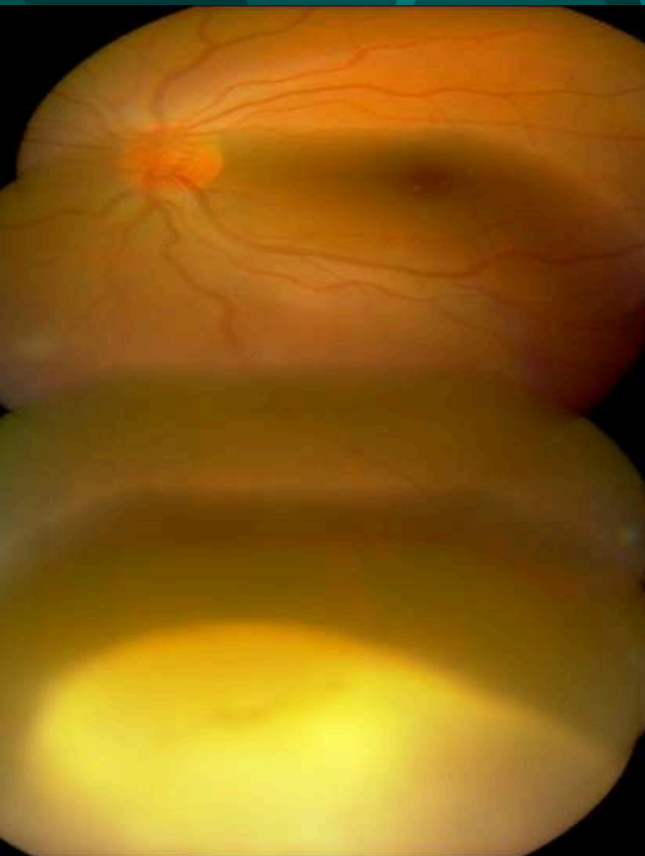
PMID: 30038190 PMCID: PMC6080472 DOI: 10.4103/ijo.IJO_17_18











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Neuro and intraocular cysticercosis: A clinicopathological case report

Dipankar Das ¹, Satyen Deka ¹, Saidul Islam ², Nilutparna Deuri ¹, Panna Deka ¹,
 Akshay Chandra Deka ¹, Hemalata Deka ¹, Sanjoy Kumar Buragohain ¹, Harsha Bhattacharjee ¹

Affiliations + expand

Eye & Brain



Case

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Indian J Ophthal, 2021

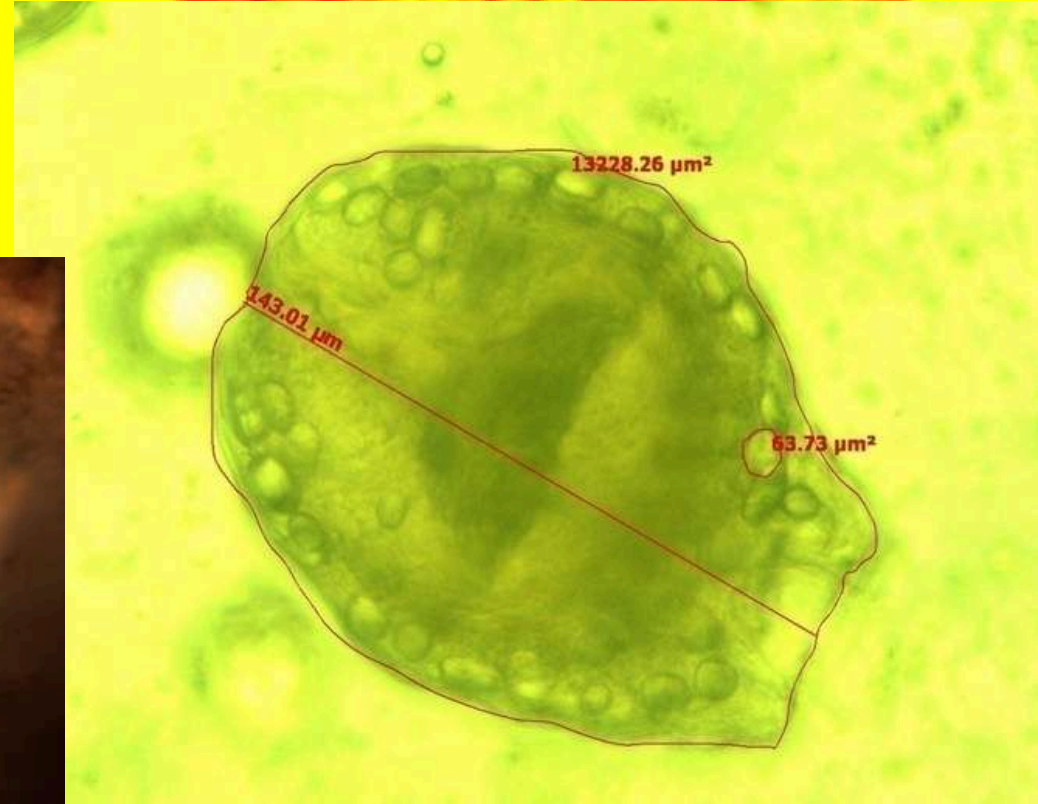
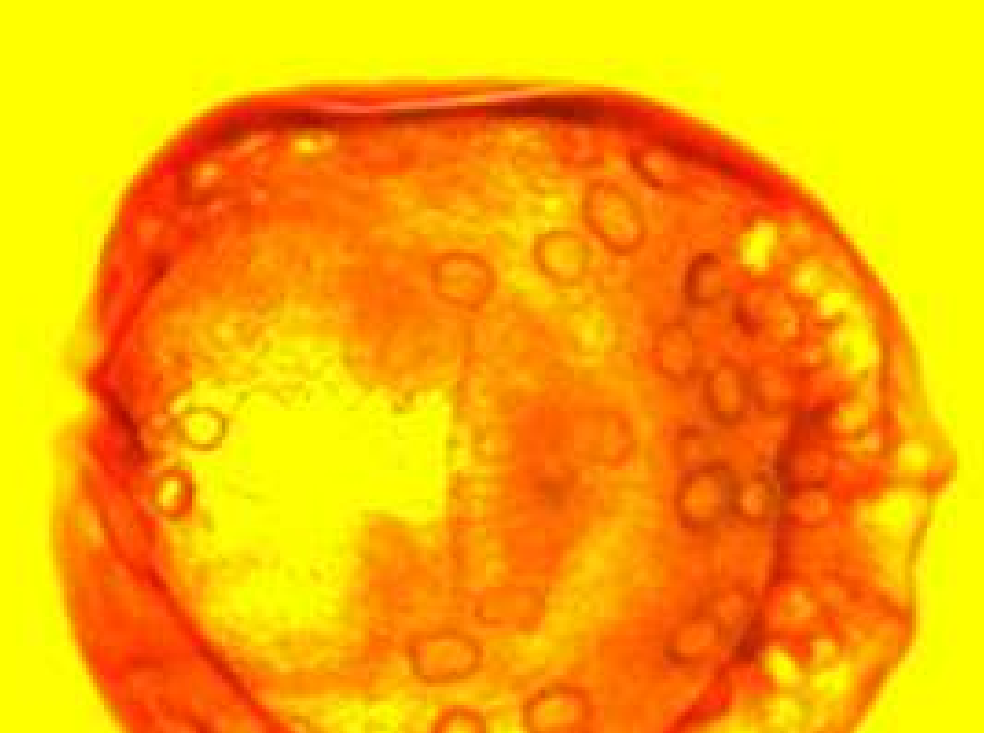
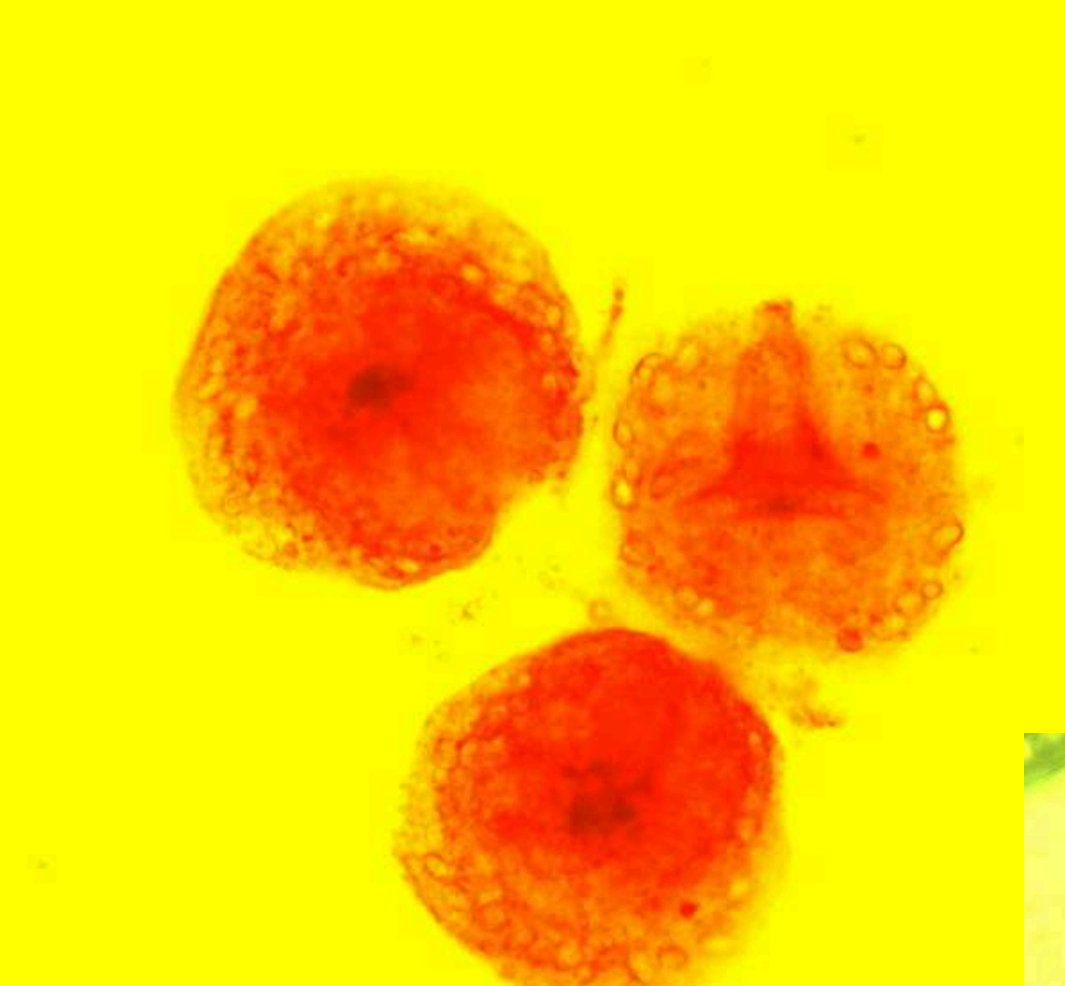
Advanced

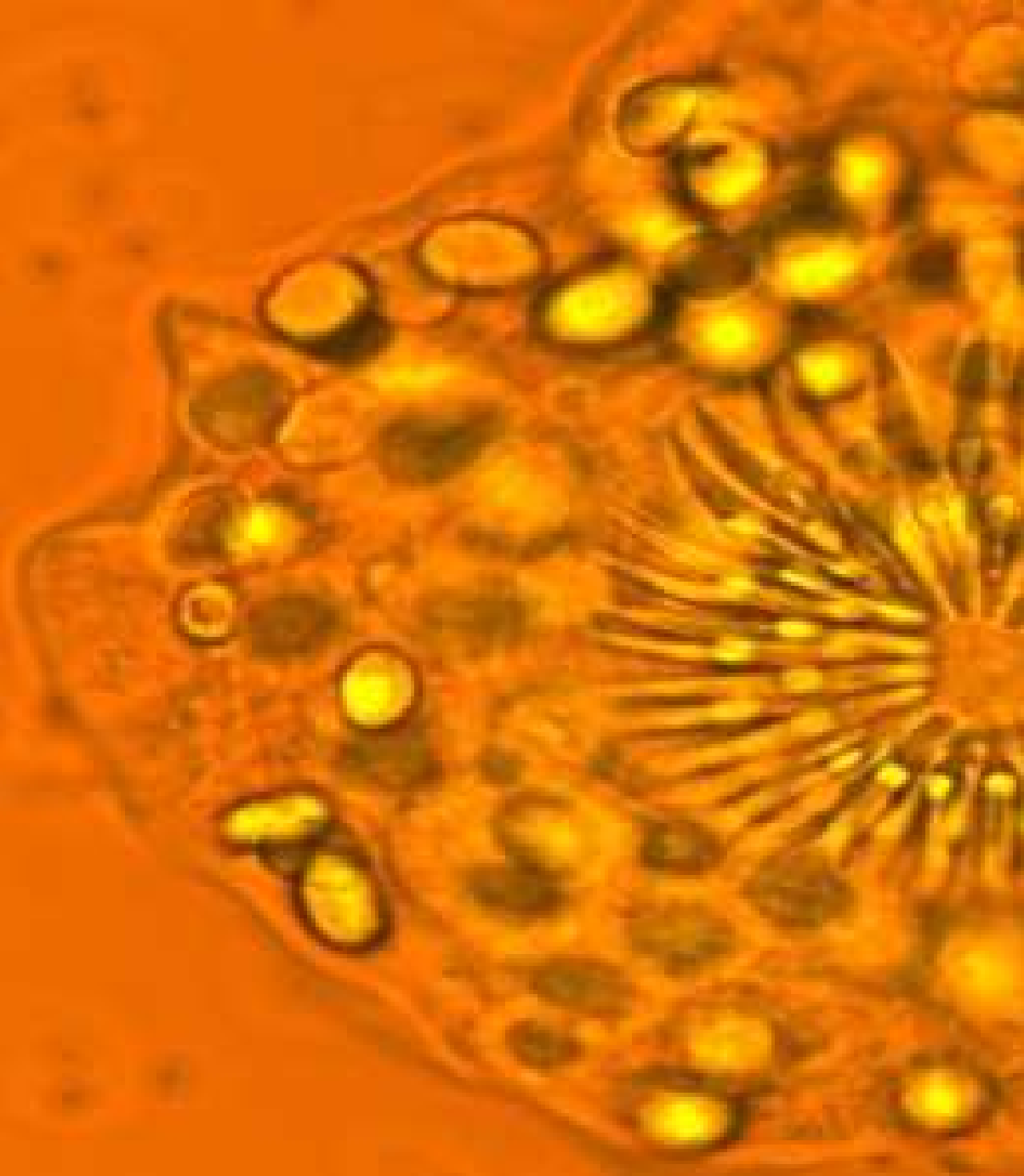
study > Indian J Ophthalmol. 2020 Oct;68(10):2175-2178.
D_2153_19.

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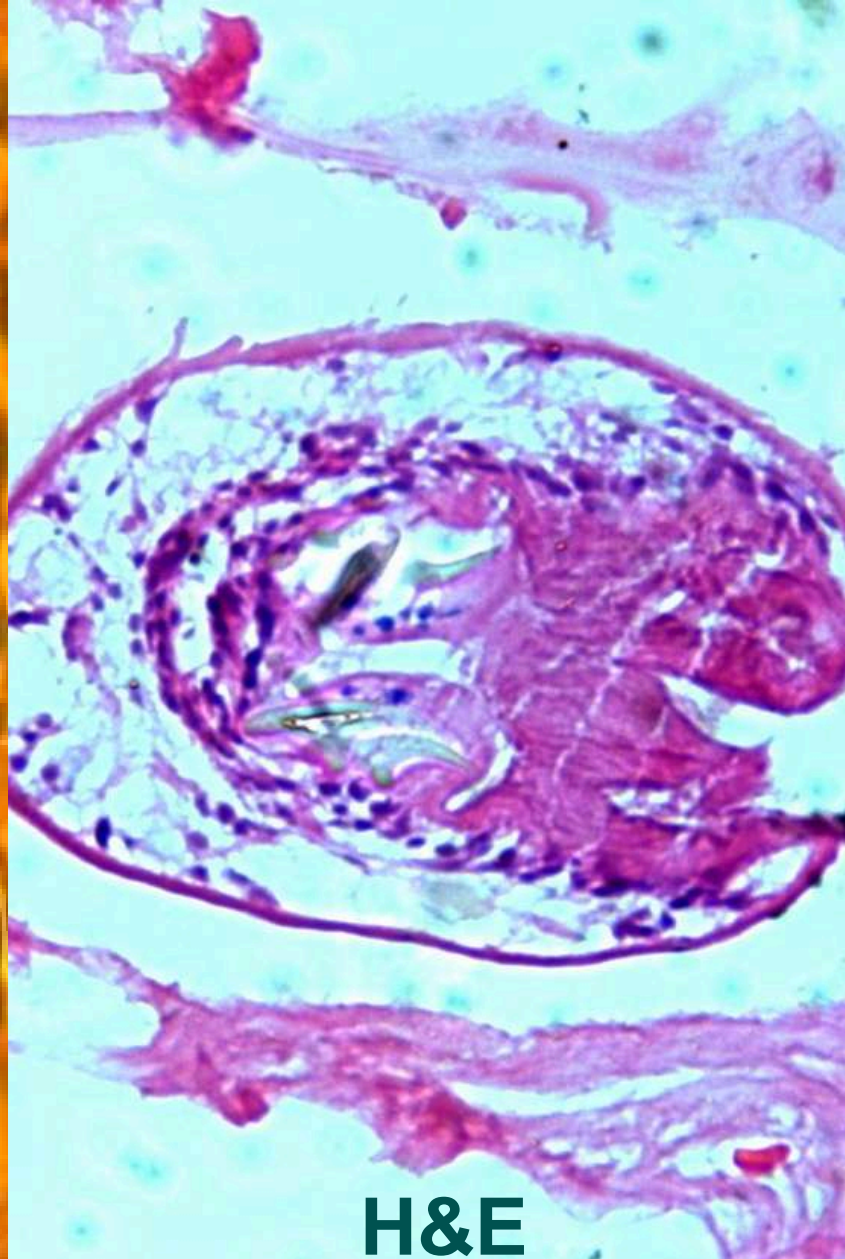
anna Deka ¹, Harsha Bhattacharjee ², Saurabh Deshmukh ², Po
abrin Sultana ²

and





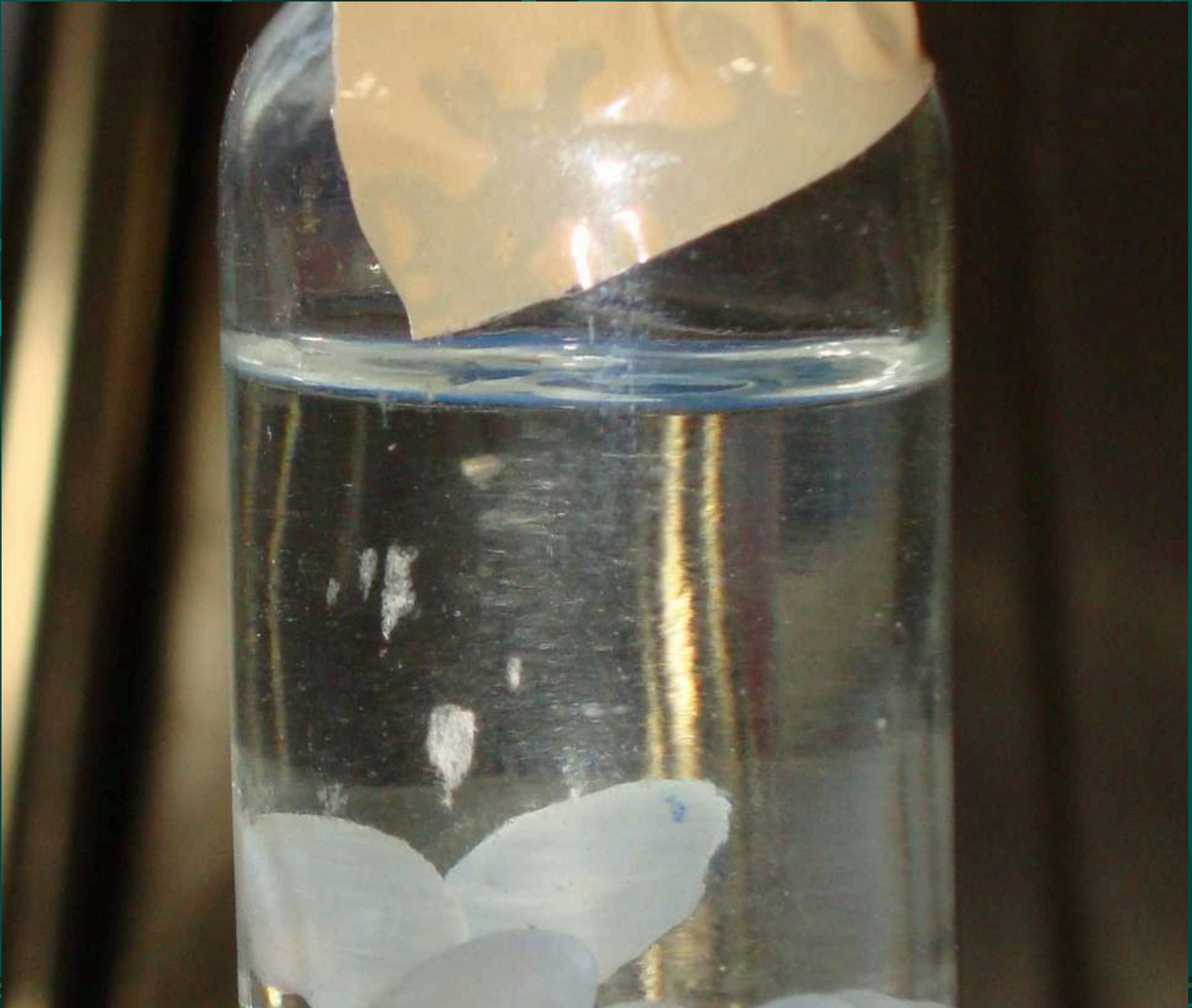
Echinococcus in Fluorescein Stain

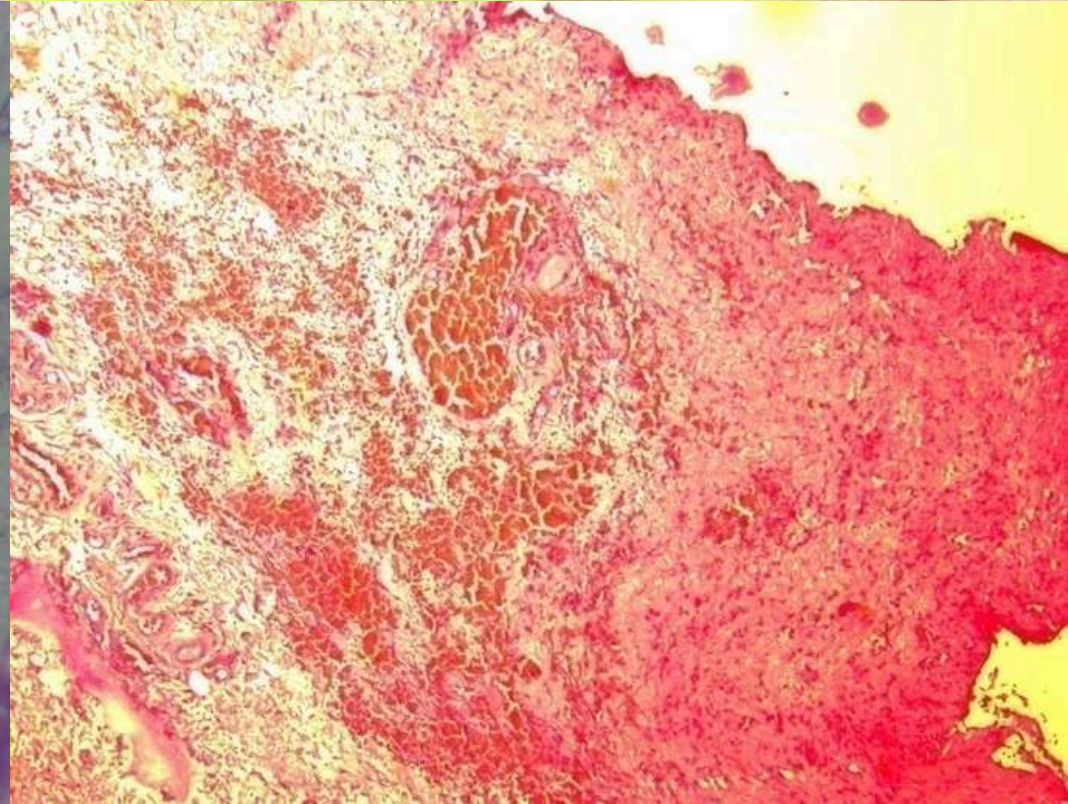
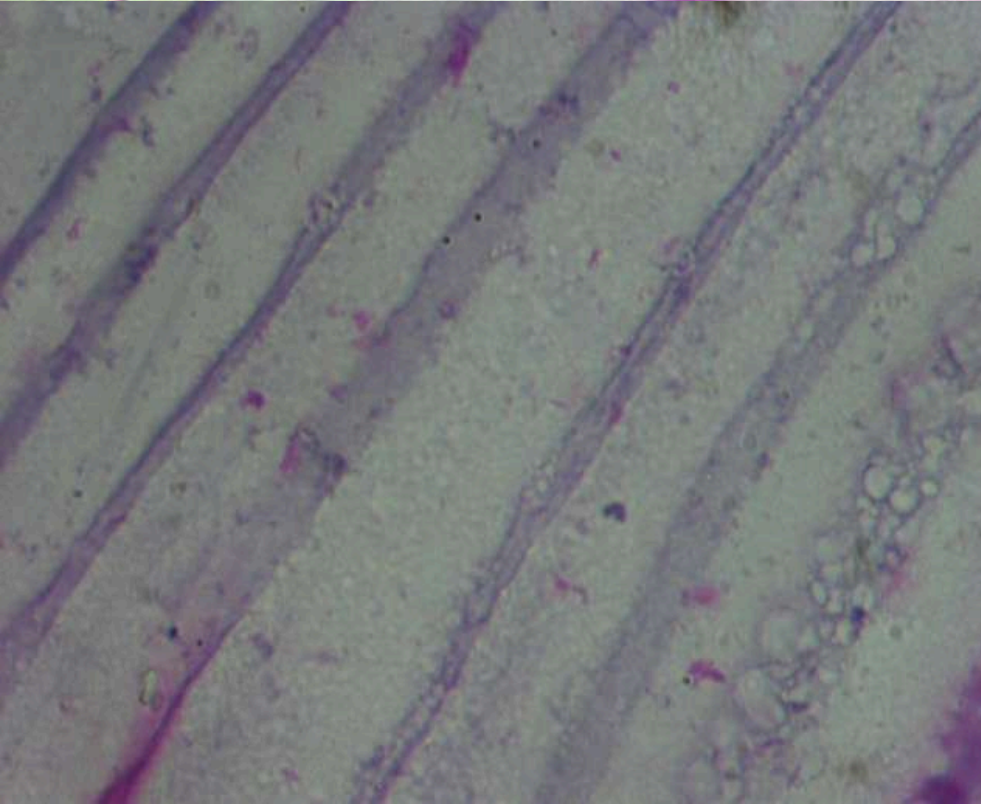
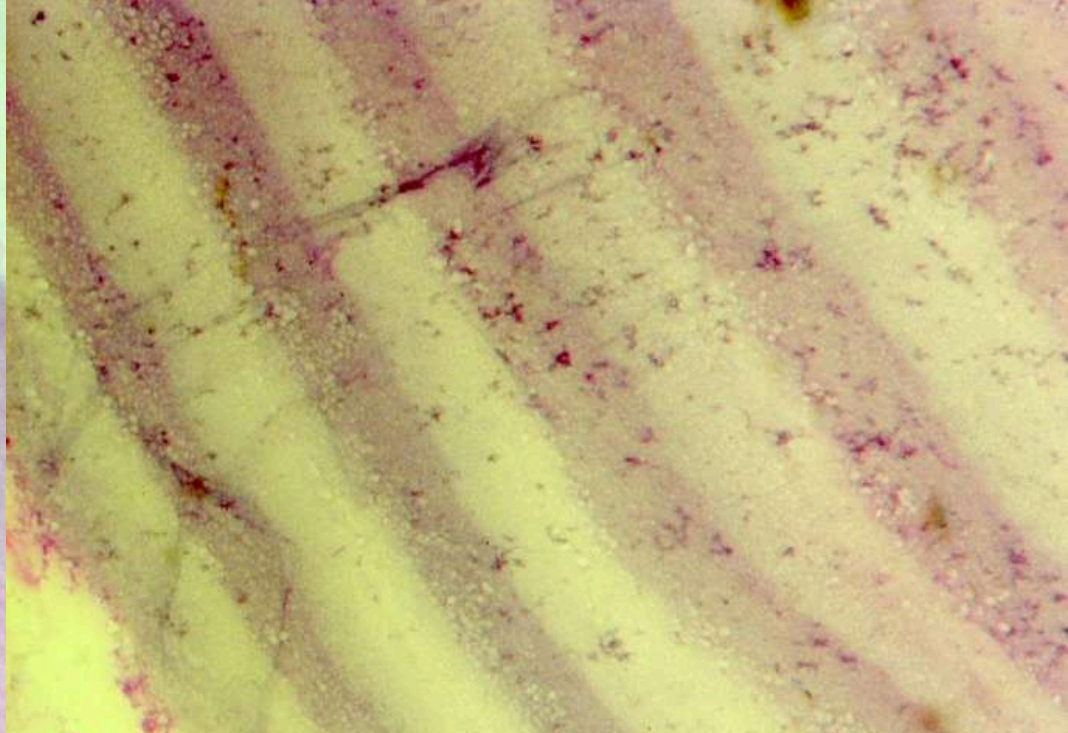
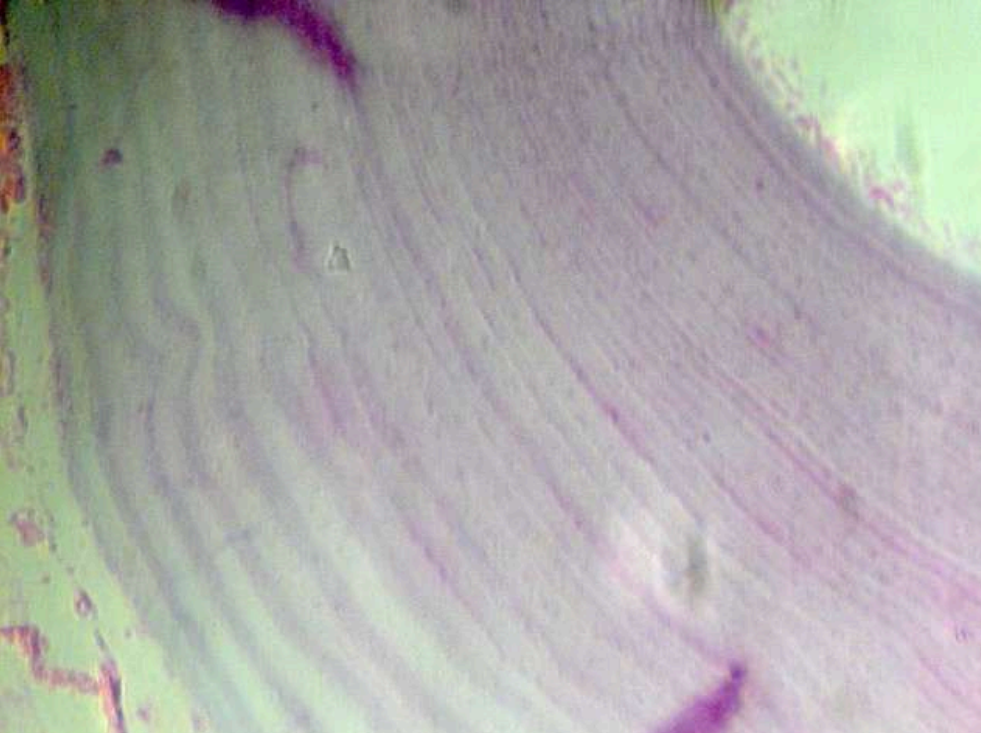


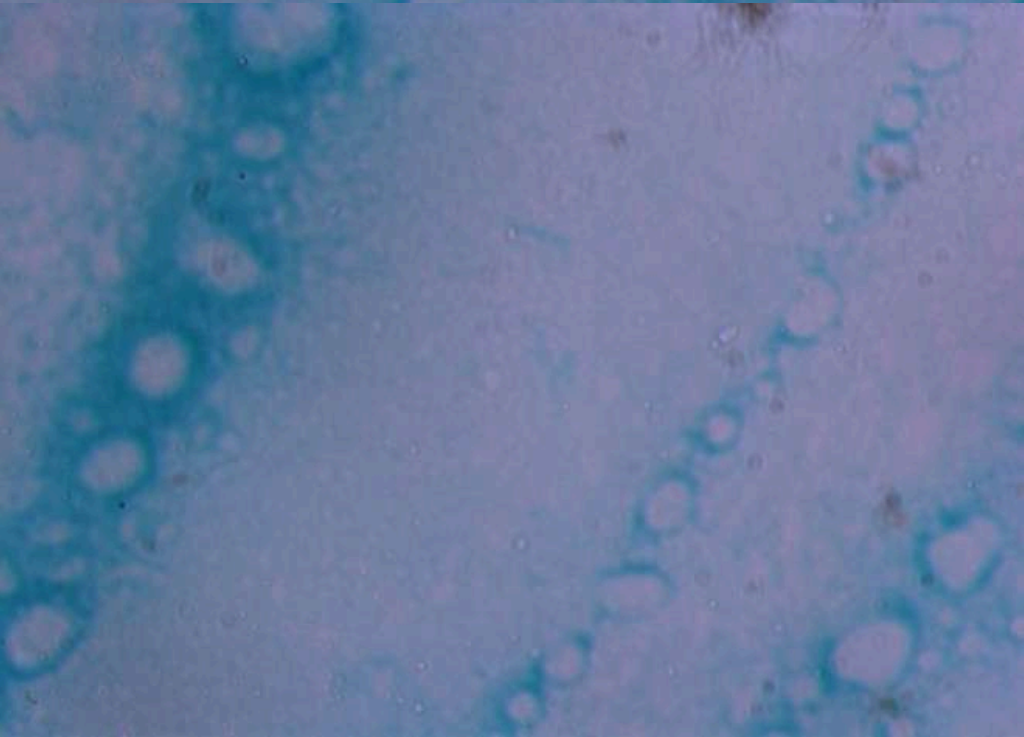
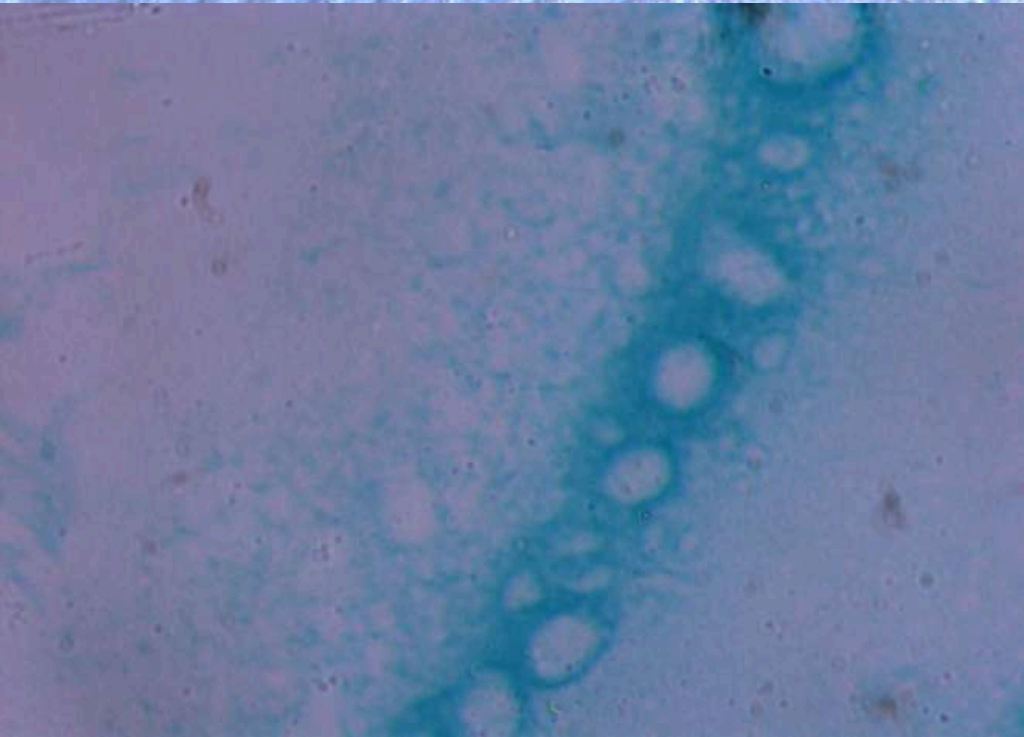
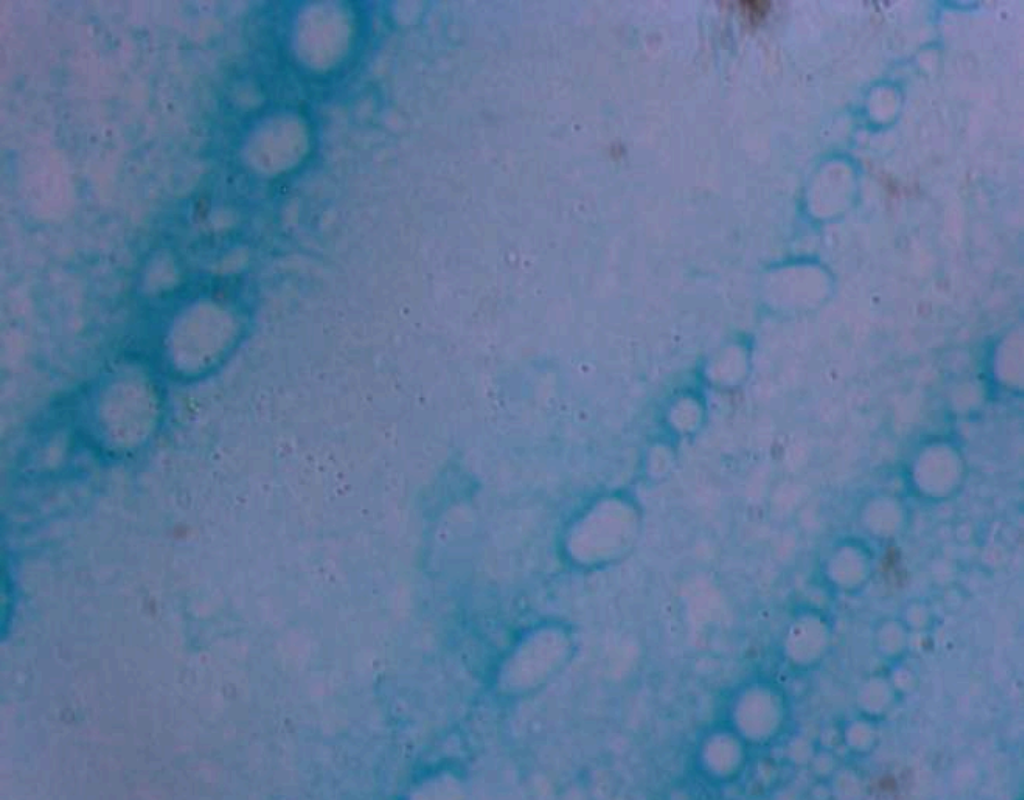
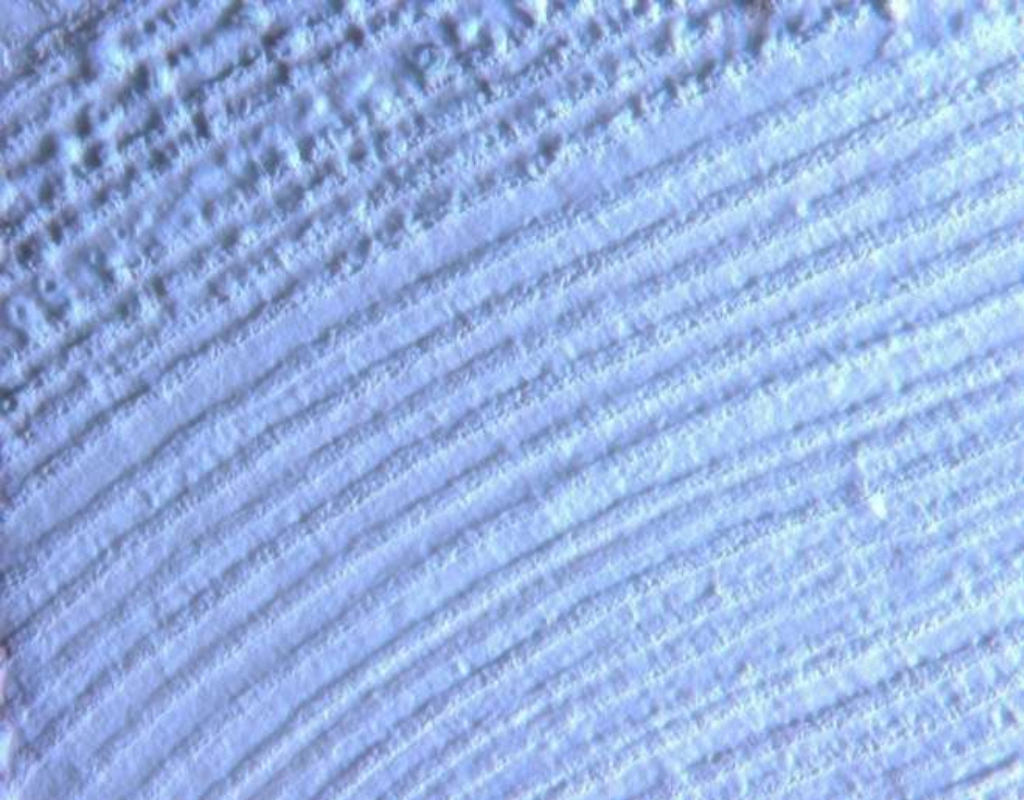
H&E

Das D, Bhattacharjee K, Das Mohapatra SS, Islam S, Singh S, Deka A. Fluorescein staining in orbital echinococcosis. Indian J Ophthalmol Case Rep 2022;2:1008

Case

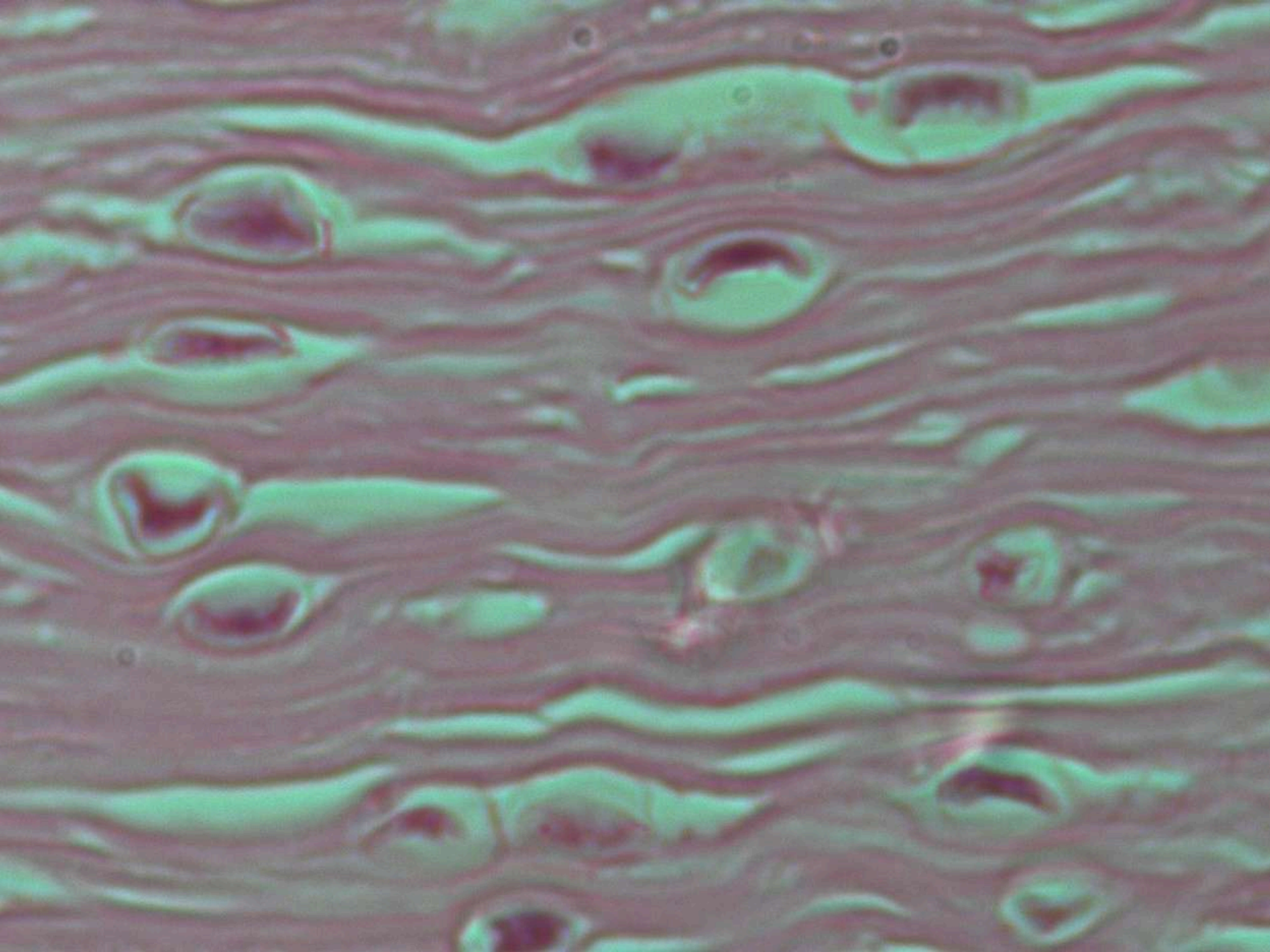






Case





Acanthamoeba

Ubiquitous

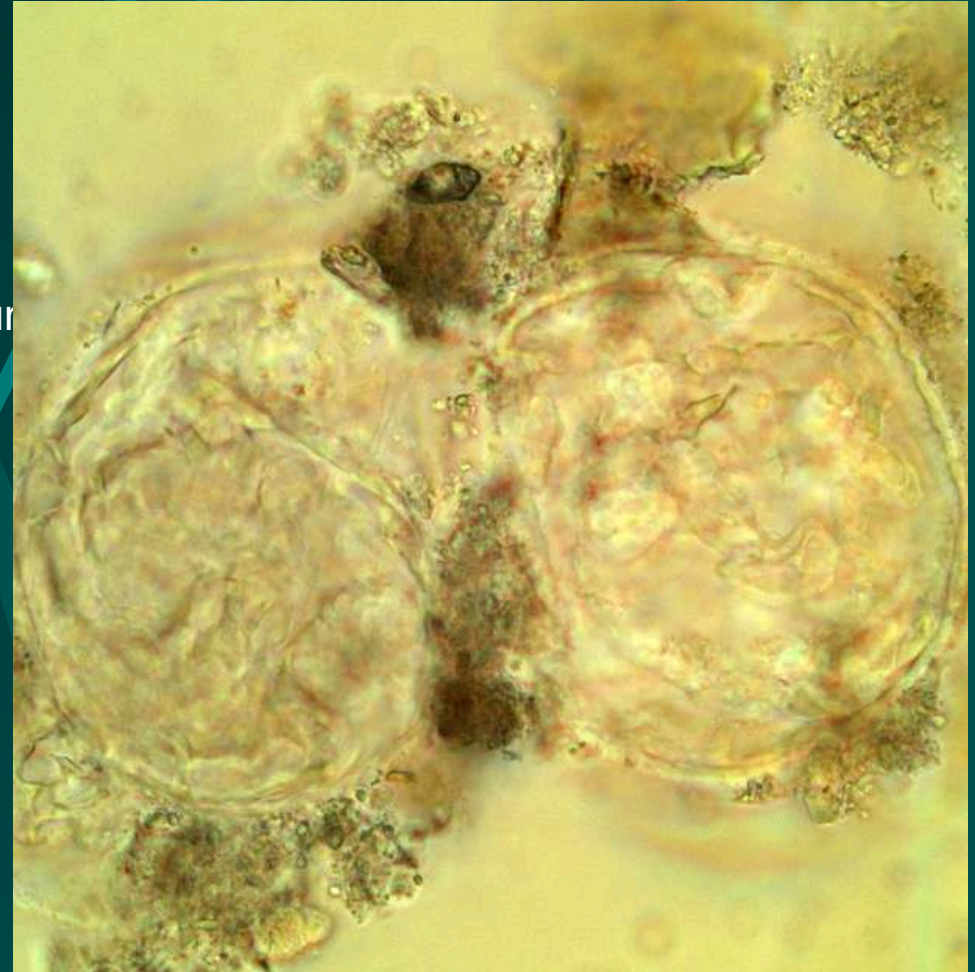
Blurry vision, Pain

Epithelial pseudo-dendrites, limbitis, stromal infiltration, perineural radial keratoneuritis

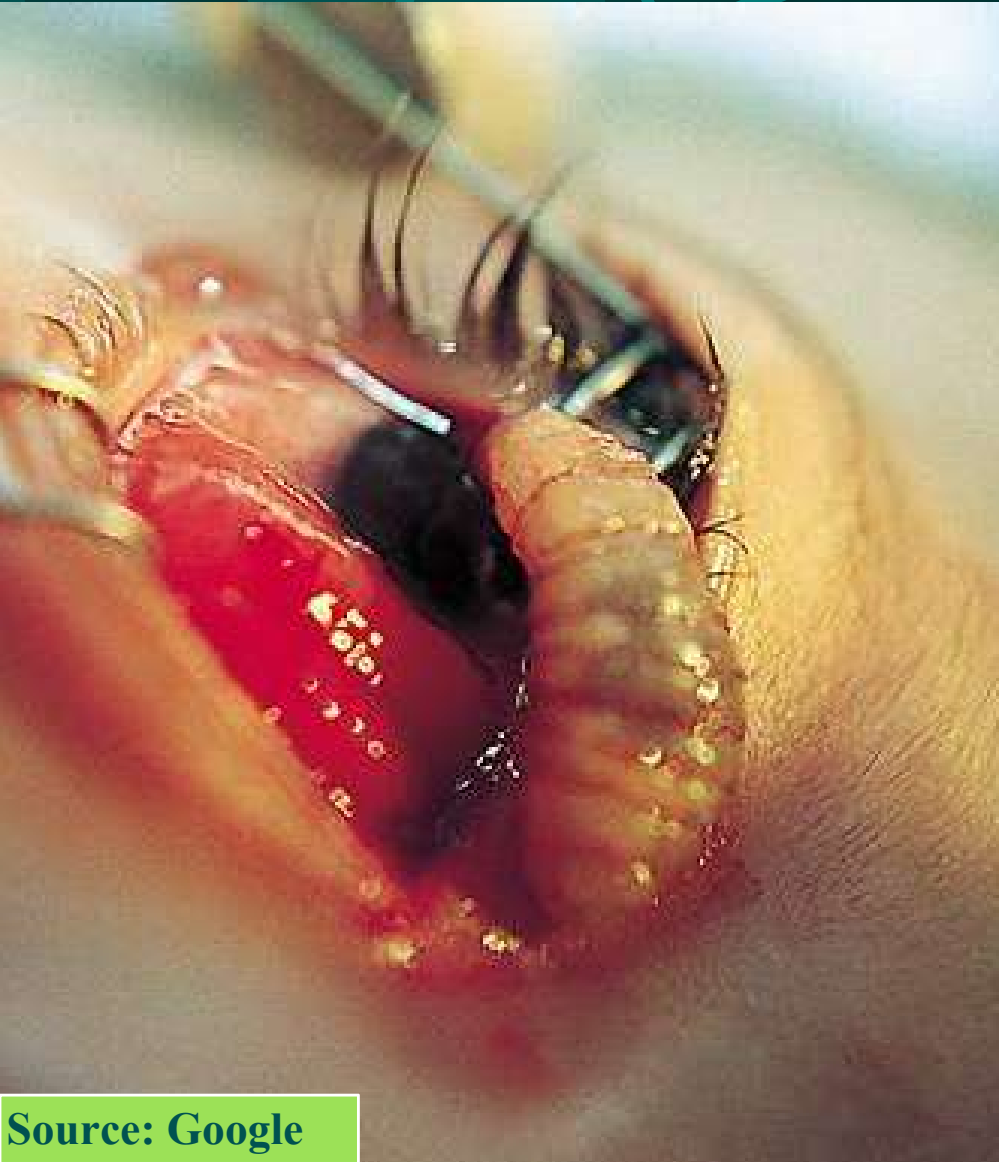
Gram/ Giemsa/ Calcofluor-white/ Fluorescein. Culture
–NNA with E coli overlay

Can have uveitis/ endophthalmitis

TX: Debridement/ PHMB, Brolene/ Neomycin,
Keratoplasty etc



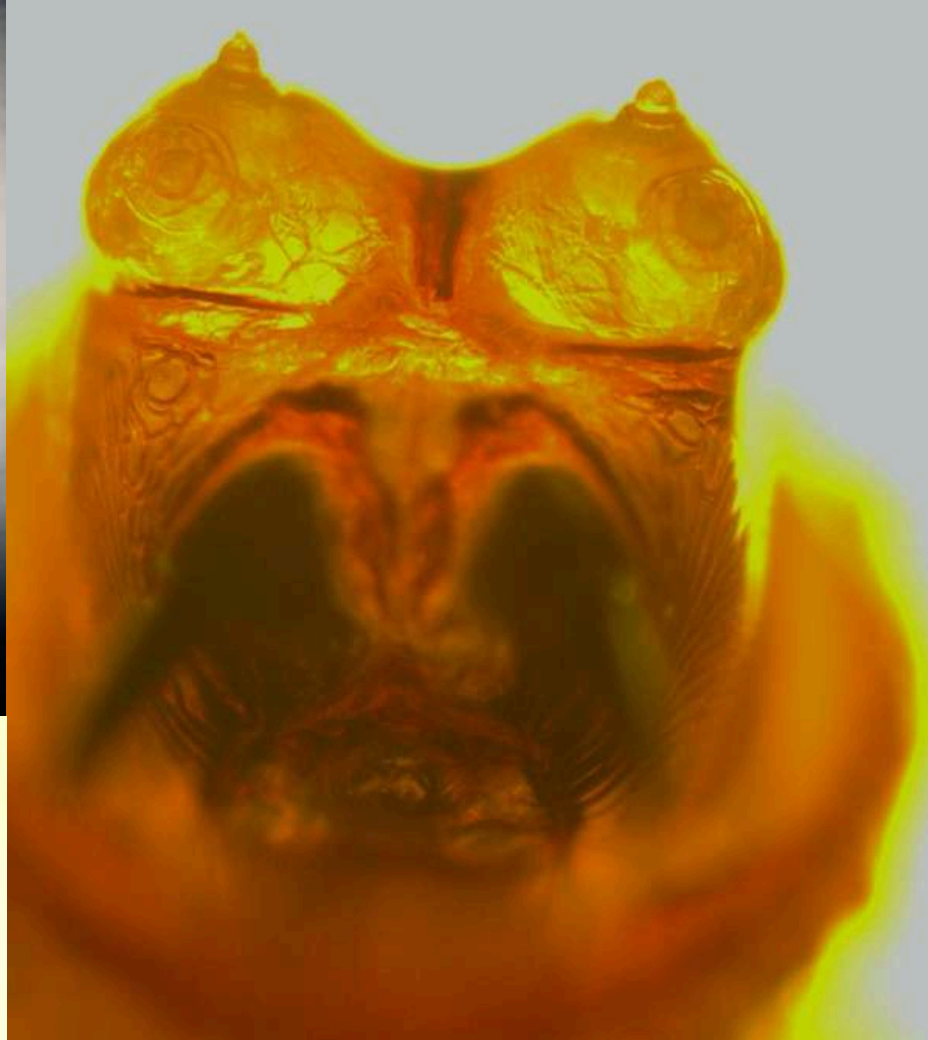
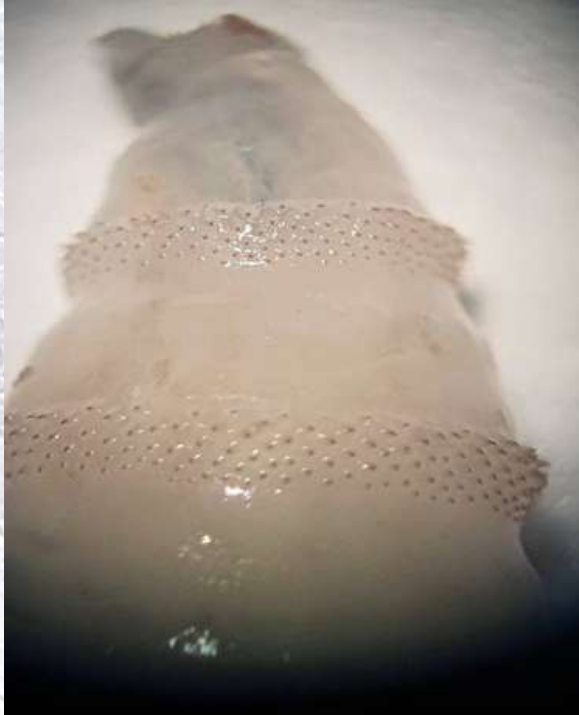
Case

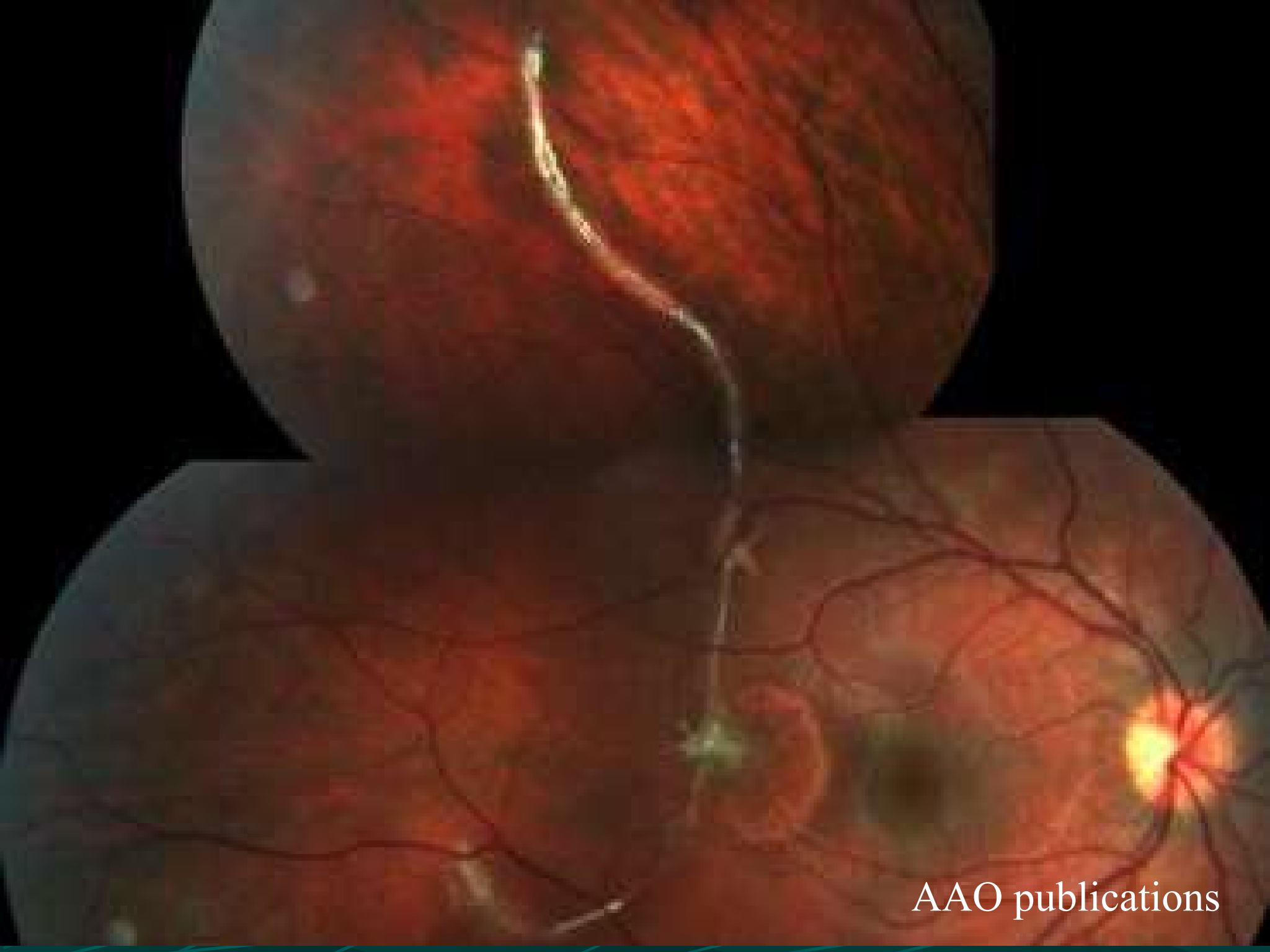


Source: Google

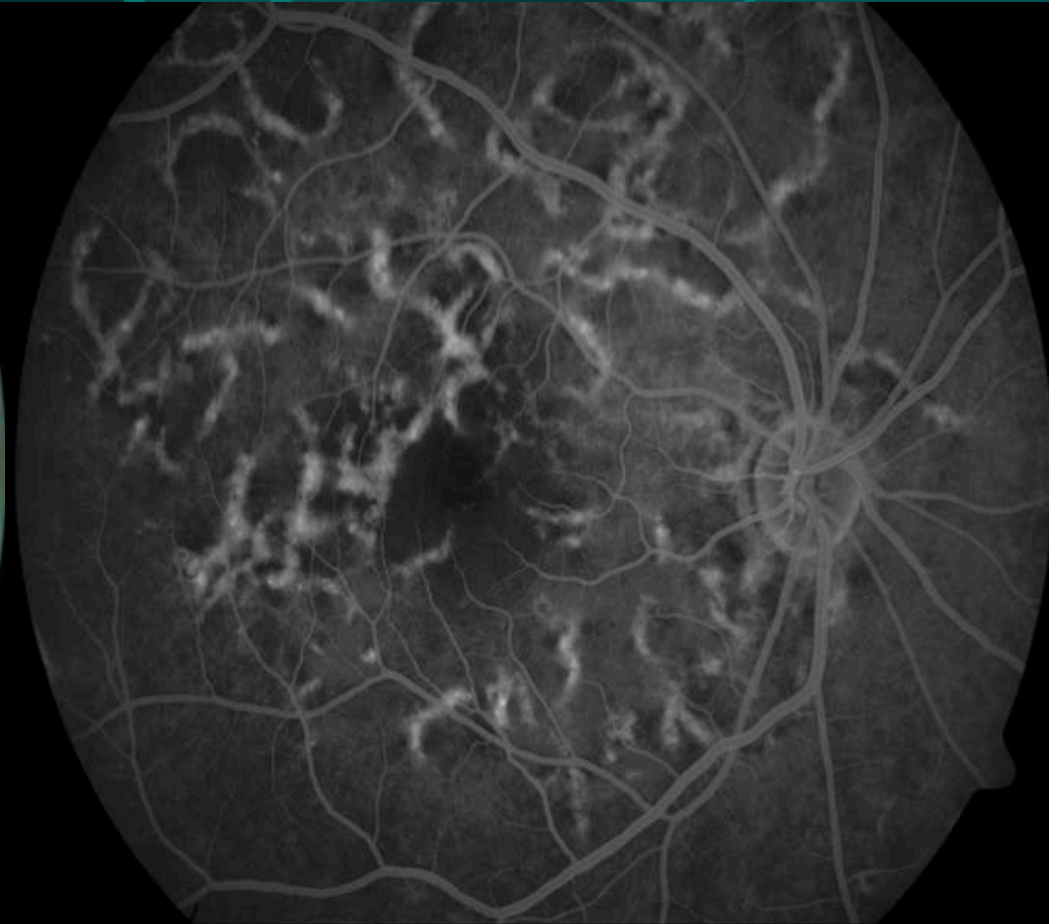


Courtesy: Dr Kasturi Bhattacharjee





Case



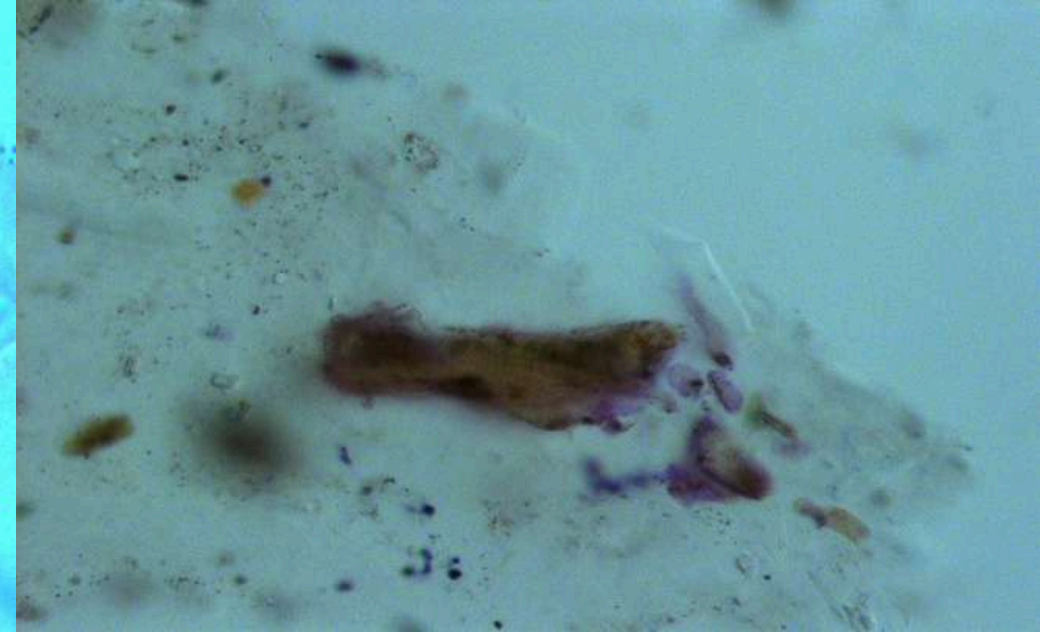
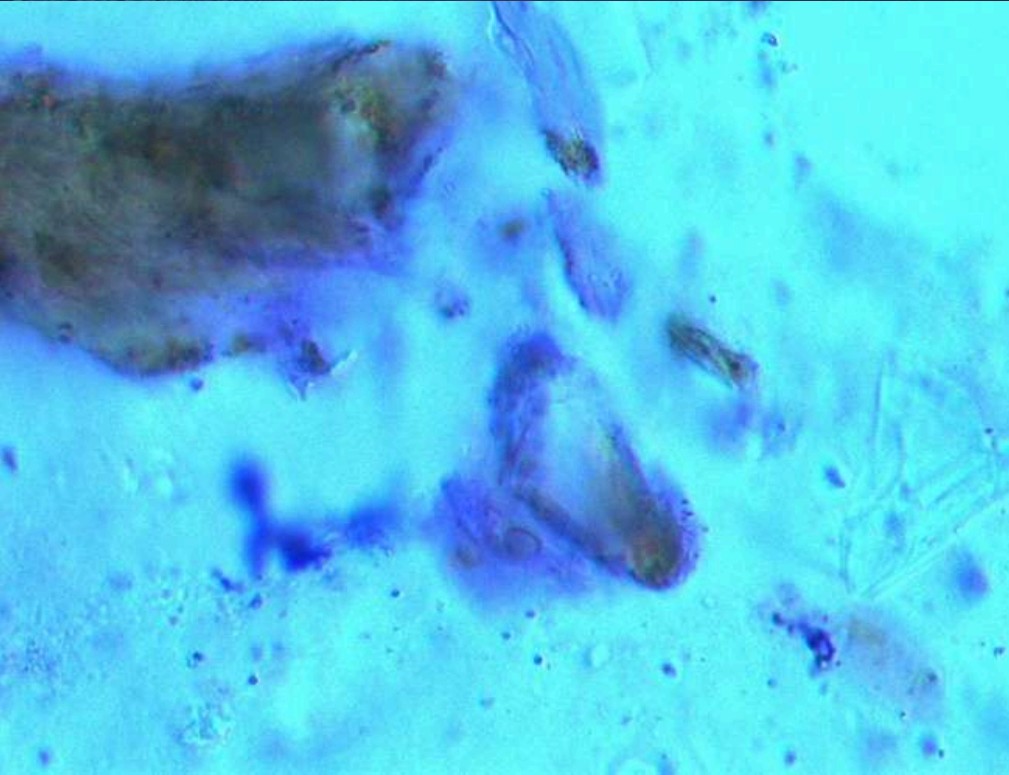
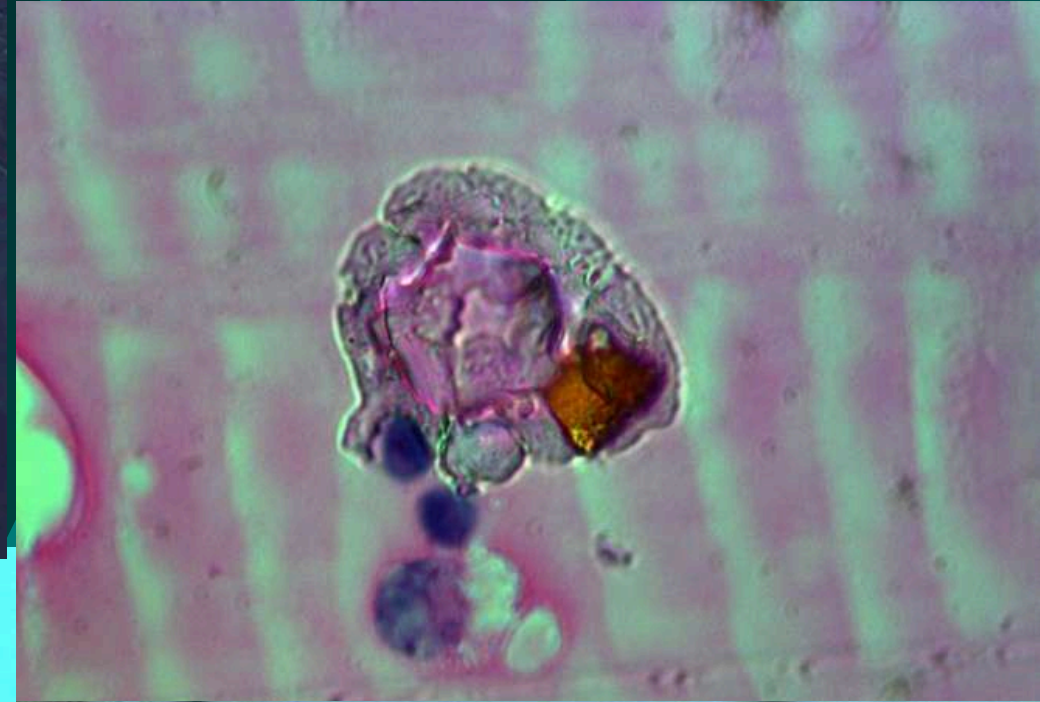
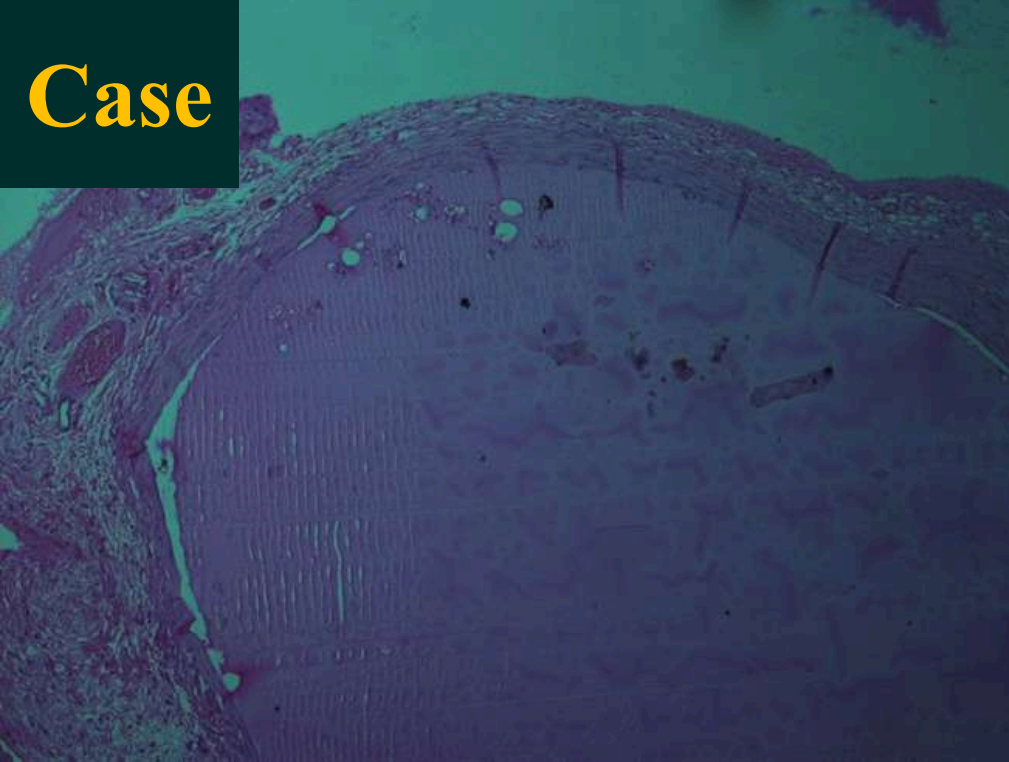
Case

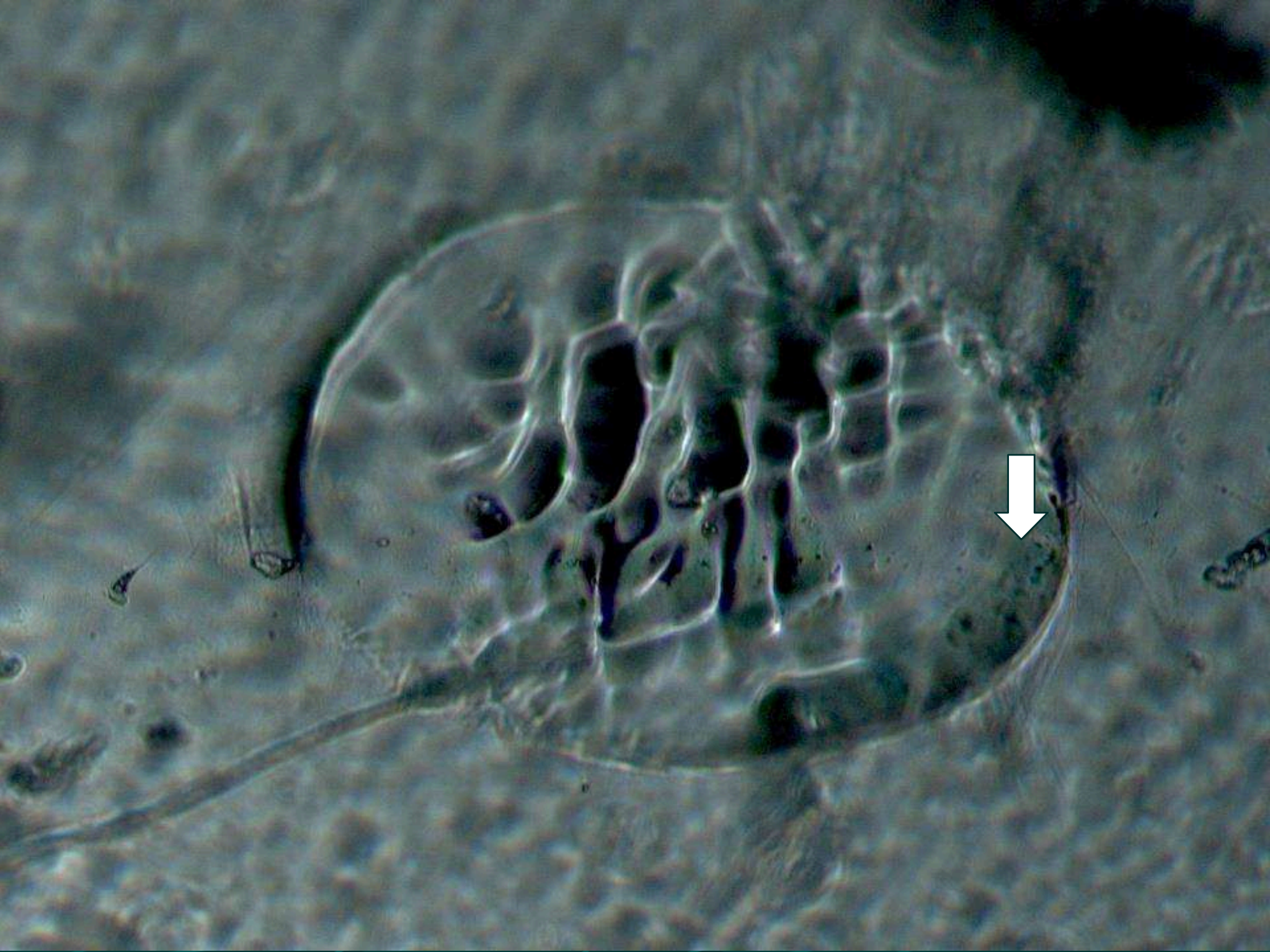




Case

Wolbachia





Take Home Message...

Parasitic diseases are seen in different region of the country and the world

Risks of the eyes are immense

We require methodical approach in diagnosing and treating these ocular parasitic cases...