

# iolscope

SMARTPHONE BASED  
INTRAOCULAR LENS MICROSCOPE

Dr Prithvi Chandrakanth

Dr V Narendran

Aravind Eye Hospital, Coimbatore



6th Edition

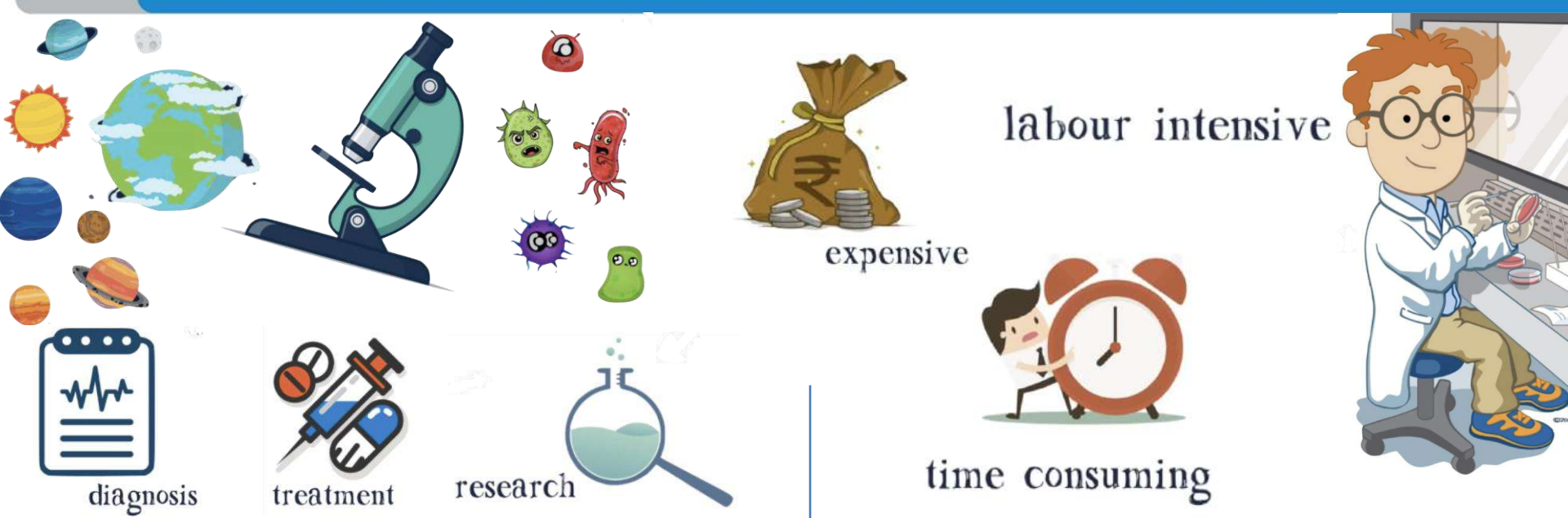
**CAHOTECH** 2021



6th Edition

**CAHOTECH** 2021





*the solution*

# iolscope



things required





relevance & impact



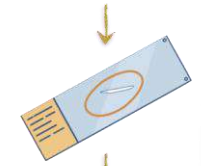
# FIRST

## Fungal hyphae with IOLscope Recognition Study

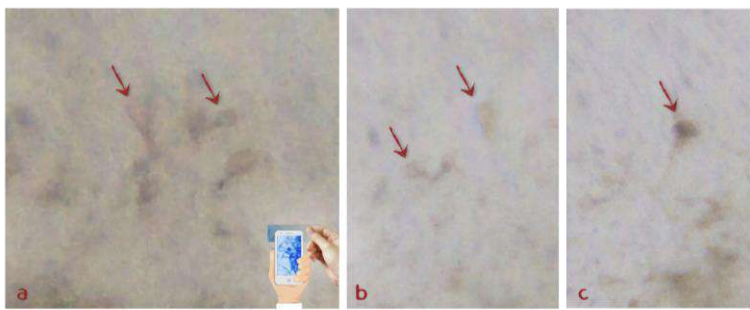
### AIM

To compare the efficacy of IOLSCOPE with a Zeiss Primo star (microscope) in the identification of fungal hyphae

Total sample : 194

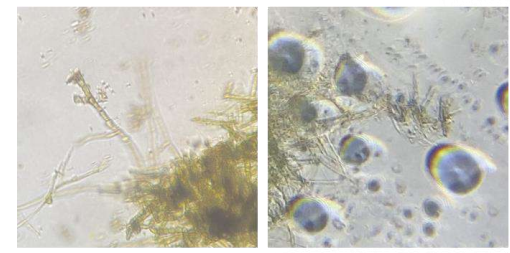


Fungal keratitis 83

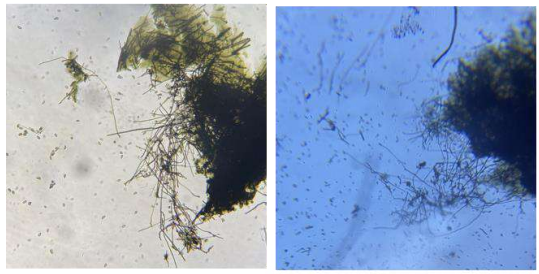


KOH : a-b. rhizopus c. aspergillus

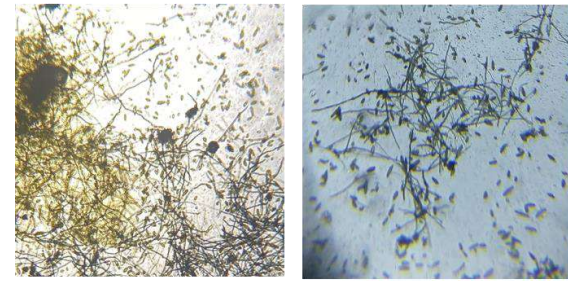
# 100% Sensitivity Specificity



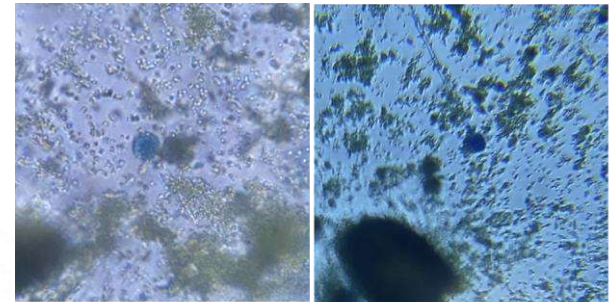
Alternaria



Curvularia



Exserohilum



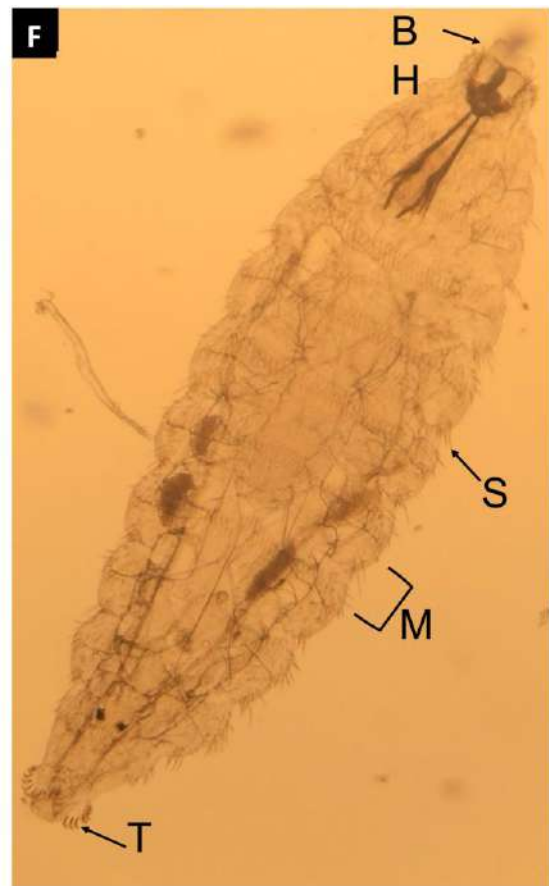
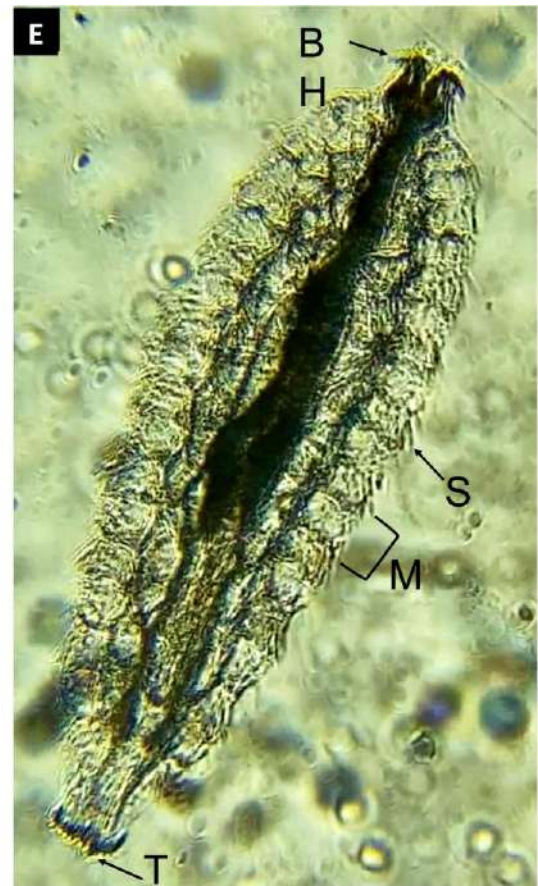
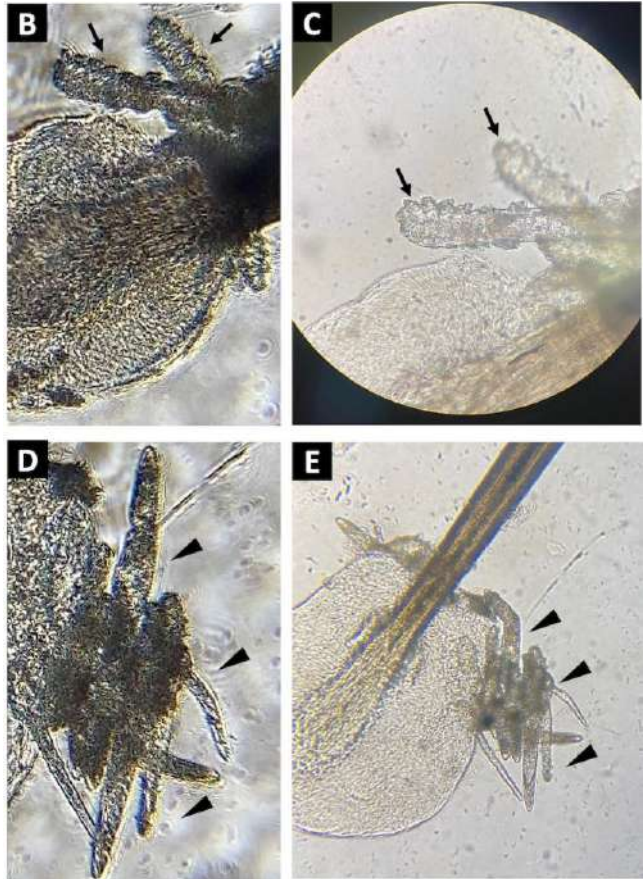
Aspergillus





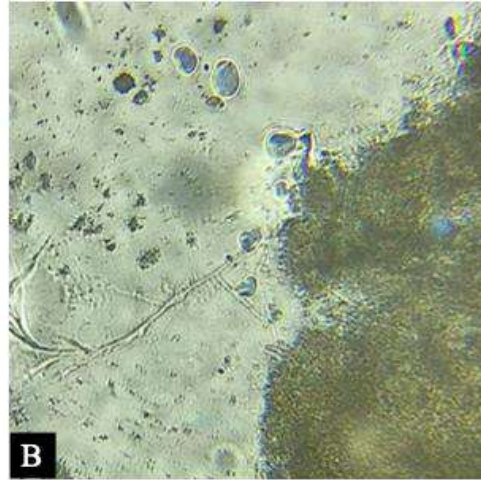
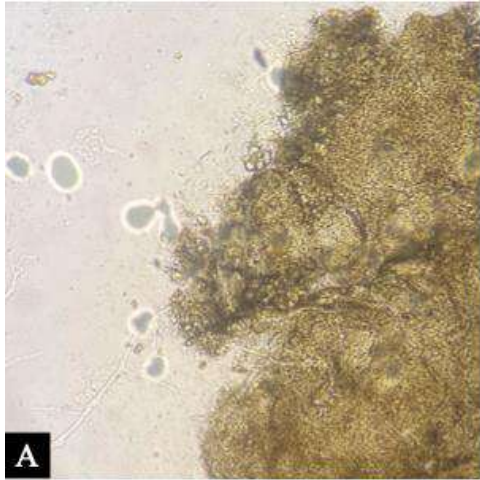
relevance & impact

# Case series on identification of sheepbotfly in RURAL SETUP



**DEMODEX IDENTIFICATION  
USING IOLSCOPE**

relevance & impact



Live demonstration of Mucor hyphae in  
Operating Theatre for rapid detection



# iolscope

- It is a Do It Yourself device which can be safely kept in your pocket, Use it at your ease anywhere, anytime at ones convenience
- It can be constructed using unsterile, expired, broken IOL's with good optic.
- The use of this device in a wide range of specialty makes it versatile – like in dermatology, microbiology, pathology, ENT . . .
- Accessibility is never a problem during the COVID pandemic – especially when laboratories are overworked, and when there are travel restrictions
- Tele-medicine is just at your fingertips – for screening and immediate treatment