



## 3<sup>rd</sup> INTERNATIONAL CONFERENCE ON OTORHINOLARYNGOLOGY

November 27-28, 2023 | Dubai, UAE

### **TITLE: “A NASTY GUEST OF EAC” - A RARE CASE REPORT OF HUMAN OTOACARIASIS**

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#### ABSTRACT

#### INTRODUCTION:

It is said that about one tenth of the world's population is bound to develop ear foreign bodies in their lifetimes, which can be organic or inorganic. Each foreign body has its own complications and must be tackled accordingly. *Hard ticks such as Ambylomma are mostly found in the tropical countries such as India, Japan, Sri Lanka, Thailand, Indonesia.* It is seen that tick infestations account for less than 1% of the causes of otalgia among patients. These arthropods are mainly parasites and usually live on larger mammals such as cattle from whom they derive their nourishment. Poor hygiene and living near infested cattle are a source of this infection.

These parasites lead to several debilitating infections such as *Kyasanur forest disease, rickettsia fever, Q fever, Lyme's disease.* Reporting of cases of *otoacariasis* in the external auditory canal have been very few in the past 3 decades. *Here we report a case of Ambylomma testudinarium and a review of literature elucidating the features of this condition, its complications and management.*

#### CASE REPORT

A 42-year-old female patient from rural Belagavi district of Karnataka, farmer, and cattle rarer by occupation presented to the out-patient department with chief complaints of right ear pain for 1 week,



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which was sudden in onset gradually progressive, dull

aching in nature and of 4-5 episodes of bleeding from

the right ear which was minimal, sudden in onset and reduced spontaneously. *The patient was carefully evaluated clinically and otoendoscopy then revealed the underlying diagnosis to be otoacariasis which was then managed accordingly.*

### DISCUSSION

Tropical countries such as ours are more prone to tick borne infections of Flaviviridae that causes the Kyasanur forest disease, Crimean Congo fever, Q fever, Rickettsial fever. Aural infestation of a tick is a relative an emergency, it needs to be addressed due to complications spanning from ear bleeding, vertigo to even facial nerve weakness with otitis media and *release of neurotoxins which inhibit acetylcholine, thus leading to ascending paralysis which in turn leads to respiratory distress or even complete respiratory paralysis which may be fatal.*

### CONCLUSION

Thus, otoacariasis, an often-overlooked condition can lead to grave otological complications spanning form a

perforation of the tympanic membrane, suppurative

otitis media, facial palsy and labyrinthitis to systemic complications such as hemolysis and even respiratory paralysis. The removal of the organism from the ear and thorough local and systemic examination is imperative, along with education of the patient and their families regarding personal hygiene and preventive measures.

*Evidence based practice of Otorhinology in a developing country must thus be both curative and preventive to reduce the load of morbidity from such parasitic infections.*





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### BIOGRAPHY



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I am an ambitious budding otorhinolaryngologist and Head and Neck surgeon from India. I am interested in research and have tried my best to engage in as many academic and research activities, with over 15 publications in the field of otorhinolaryngology Head and Neck surgery in national and international journals. Being a young surgeon in the COVID-19 pandemic has only further motivated me and

enhanced my emergency management skills as I realized the vitality of my specialty. I am a member of the AOI and APSI. I've presented papers and posters at several national and international conferences and been awarded several awards at national and state conferences. Such as the **DR. KISHORE CHANDRA PRASAD GOLD medal** for best case presentation at AOICON Karnataka chapter, Davangere, 18<sup>th</sup> December, 2021 titled "A camouflaged lethal disease of the nose". finalist in poster presentation at AOICON Karnataka state chapter, Davangere, 18<sup>th</sup> December 2021 "a unique presentation of a lip swelling". won the "**DR MV VENKATESH MURTHY GOLD MEDAL for best postgraduate e-poster presentation**"- at AOICON south zone India & Karnataka state conference held in 2022 Manipal 14<sup>th</sup>-16<sup>th</sup> October 2022. **won the "DR. Hazarika AOI-Karnataka travelling fellowship, for the year 2023-24"**- at AOICON south zone & Karnataka state conference held in 2022 Manipal 14<sup>th</sup>-16<sup>th</sup> October 2022. I'm keen on presenting my work at your international platform and learning maximally from my peers.