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Epidemiology and rediscovery of *Trichinella spiralis* from Aurangabad District

A. M. Budrukkar

R. B. Attal College, Georai

Corresponding author email: anirudhabudrukkar@gmail.com

Abstract---*Trichinella spiralis* infection is the major problem all over the world. The trichinosis being human zoonotic disease has been subject of current research all over the world. The *Trichinella* is collected by many tours of different localities. The scheme of identification is based on “Systema helminthum” Vol III by Yamaguti (1959). This study adds epidemiology and rediscovery of *Trichinella spiralis* in Aurangabad district.

Keywords---*Trichinella spiralis*, epidemiology, rediscovery.

Materials and Methods

The *Trichinella* is collected from Rat from various localities of Aurangabad District. The founded worm agrees with all characters of *Trichinella spiralis* (Owen, 1835). The large numbers of Rats are dissected to collect *Trichinella* from rat intestine. The worms are preserved in cold glycerin alcohol. Worms are mounted in evaporated glycerin. The drawings are made with the help of camera lucida. All the measurements are in mm.

Description

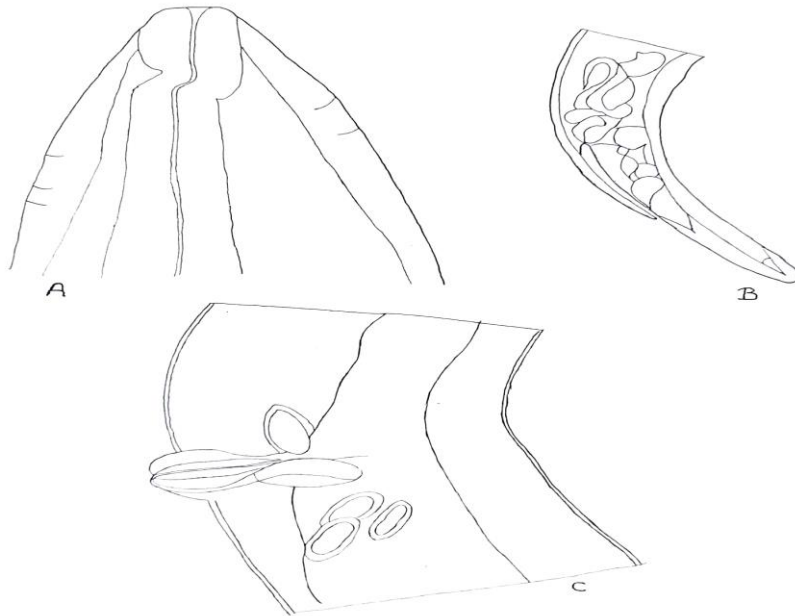
The round worm is slender and small. Cuticle is smooth and striations were seen. Anterior end is somewhat pointed and thicker posterior end. Mouth simple and esophagus long. Anus is terminal.

Male: Not found

Female: Female is 1.66 long and 0.33 in breadth. Simple mouth, vulva is about middle of cellular part of the esophagus. Esophagus is straight line. Buccal capsule measures 0.015, pharynx is about 0.019. Tail measures 0.66 in length.

Conclusion

It was concluded that the strain recovered from a Rat in Aurangabad district having same characteristics from the classical *Trichinella spiralis*. Author has studied epidemiology of *Trichinella spiralis* 20 years ago. However, further research is needed to identify reasons for the reported differences between demographic groups. Molecular epidemiological methods associated with whole genome sequencing to determine 'who infects whom' may shed more light on the factors generating predisposition.



A = Anterior end of female
B = Posterior end of female
C = Vulva lateral view

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