

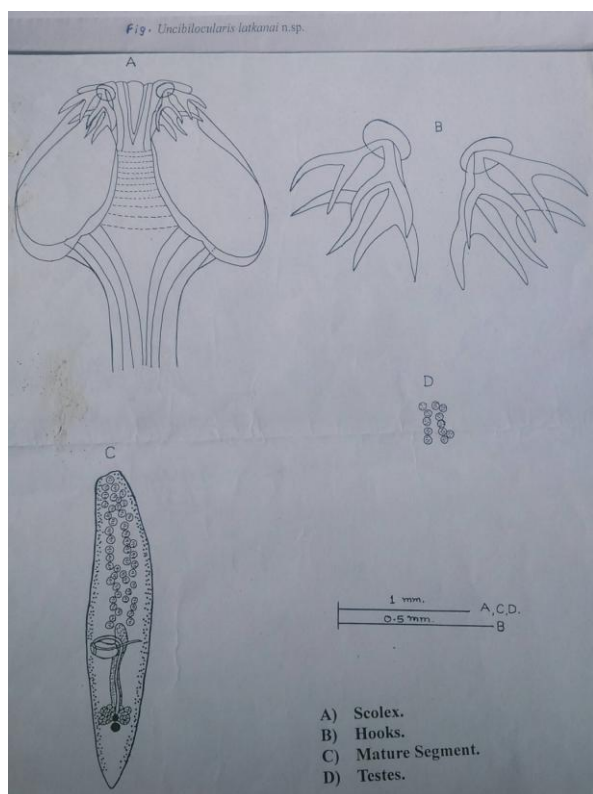
RESEARCH ARTICLE

On a new species of the genus *Uncibilocularies* Southwell, 1925, from (Cestoda: Onchobothridae) Ratnagiri, (MS) West coast of India

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| Manuscript details: | ABSTRACT |
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| <p>Available online on http://www.ijlsci.in</p> <p>ISSN: 2320-964X (Online) ISSN: 2320-7817 (Print)</p> <p>Editor: Dr. Arvind Chavhan</p> <p>Cite this article as: Pawar LB, Patil DN, Shewale SS and Kendale SS (2015) On a new species of the genus <i>Uncibilocularies</i> southwell, 1925, from (Cestoda: Onchobothridae) Ratnagiri, (MS) West coast of India <i>International J. of Life Sciences</i>, Special Issue, A3:95-97.</p> <p>Acknowledgement: The author is thankful to the Chairman of the institute and Principal S.G. Patil College Sakri, Dist. Dhule (M.S.) India for providing the research laboratory facilities.</p> <p>Copyright: © Author, This is an open access article under the terms of the Creative Commons Attribution-Non-Commercial - No Derives License, which permits use and distribution in any medium, provided the original work is properly cited, the use is non-commercial and no modifications or adaptations are made.</p> | <p>ABSTRACT</p> <p>One new cestode species <i>U. latkanai</i> from <i>Trygonzuegi</i> at Ratnagiri (M.S.) West Coast of India is described. <i>Uncibilocularies latkanai</i> differs from all the known species of the Genus in having scolex triangular, tapering at both the ends and bothridia are present. Mature segments are elongated in shape and five to six times longer than broad. Testes 47-50, genital pores submarginal, vitellaria granular like strip. Cirrus pouch alternate.</p> <p>Keywords: <i>Uncibilocularies</i>, <i>Trygonzuegi</i>, <i>U. latkanai</i>, parasite, host.</p> <p>INTRODUCTION</p> <p><i>Uncibilocularies</i> was established by Southwell (1925) as its type species <i>U. trygonis</i> in <i>Trygonwalga</i> and <i>T.sephen</i>. He again reported in 1927 <i>U. mandleyi</i> in <i>Hemigaleus balfouri</i> Subhadrappa (1959) reported <i>U. indica</i> from <i>Chiloscyllium griseum</i> in India. Deshmukh and Shinde (1975) reported <i>U. aurangabadensis</i> from <i>Stromateus</i> sp. In India, Shinde and Chincholikar (1975) described <i>U. ratnagiriensis</i> and <i>U. southwelli</i> from <i>Trygon</i> species in India. Later on Deshmukh (1977) reported three new sp. <i>U. thapari</i> from <i>T. sephen</i>, <i>U. shindei</i> from <i>T. zuegi</i> and <i>U. somnathi</i> from <i>pteroplaticrura</i> at veraval, Jadhav and Shinde (1981) described <i>U. veravalensis</i>, Jadhav, Shinde and Phad added <i>U. bombayensis</i> from <i>T. sephen</i>. Later on Jadhav et al (1989) described two new species of the same genus. <i>U. indiana</i> and <i>U. shashtri</i> from marine fishes; West coast of India. Fifteen marine fishes <i>Trygonzuegi</i> were dissected at marine Biological Laboratory Ratnagiri, out of which nine fishes were infected and 12 cestodes were recovered.</p> <p>DESCRIPTION</p> <p>The scolex is almost triangular tapering at both the ends with four sessile bothridia. Scolex. 1.69-1.72 x 1.31-1.87 mm in size. Bothridia larger measures 1.417-1.533 x 0.36-0.62 mm in size. Loculi and accessory suckers are absent. Each bothridia anteriorly bears a pair of bifurcated hooks, inner hook measures 0.34-0.35 x 0.034-0.039 in size. Outer hook measures 0.39-0.40 x 0.034 x 0.043 in size. Each hook has prongs and one</p> |



handle. Each prong measures 0.252 x 0.024mm in size. The outer prong measures 0.214-0.218 x 0.024-0.039mm in size. The outer pair of hooks measures 0.219-0.296 x 0.024-0.034 in size. Neck long 0.155-0.175 in length and 0.218-0.277 in breadth.

Mature segments longer than broad measures 2.306 x 2.431 in length and 0.236-0.476 in breadth. Testes oval to round in shape 47-50 in number lies in anterior half of the segment. Cirrus pouch is middle of the segment measures 0.519 x 0.113 in size sub-marginal cirrus long without spines measures 0.147 x 0.011 in size. vas deferens is thin and straight measures 0.159 x 0.005 in size and is opposite to the genital pore. Vagina 0.47-0.51 x 0.022mm in size. *Receptaculum seminis* measures 0.193 x 0.034 in size. Vagina and cirrus pouch opens through oval common genital pore 0.193 x 0.204 in size. Vagina ends in shell gland measures 0.079 x 0.068 in size. Ovary bilobed finger like with 3-4 aciniotype lies in between two ovaries measures 0.170 x 0.170 in diameter. Vitellaria granular uterus longer and broader 0.056-0.090 in size.

Host : *Trygonzuegi*
Location : Spiral Valve
Locality : BhagvatiRatnagiri (M.S.) India.

DISCUSSION

The present worm under discussion is having scolex triangular absence of the accessory suckers, absence of tubercle, presence of neck, mature segments are elongated tapering at both ends. Testes are 47-50 in number. Genital pore sub-marginal alternate ovary bilobed, vitellaria granular.

The present parasite differs from *U. trygonis* in the shape of scolex almost triangular as against square, Testes 47-50 as against 30-40.

From *U. indica* number of testes 47-50 as against 56-60, genital pore anterior to one third as against middle.

From *U. aurangabadensis* scolex almost triangular as against quadrangular presence of neck as against absence of neck.

From *U. ratnagirensis* scolex triangular as against square. Testes 47-50 as against 144.

From *U. southwelli* shape of scolex triangular as against rounded. Testes 47-50 as against 220-230.

From *U. thaparis* scolex almost triangular as against rounded. 47-50 as against 25-28.

From *U. shindei* scolex rounded, Testes 40-45, position of genital pore middle.

From *U. somnathi* scolex quadrangular.

From *U. veravalensis* scolex round to oval. Testes 75-80, cirrus spinose.

From *U. bombayensis* scolex circular common genital pore marginal.

From *U. indianas* scolex oval. Tubercle on inner prong as against absent.

From *U. shashtri* scolex broad narrow anteriorly and broad posteriorly. Testes 55-60. Cirrus pouch spinose, vagina posterior to cirrus pouch. Uterus coiled.

CONCLUSION

Because of the varied characters, it is regarded as a new species *U. latkanaei* from *T. zugei* at Ratnagiri. Nomenclature is done with the specific name of authors mother Late Latkanbai Babulal Pawar, who inspired and help me for education.

REFERENCES

- Deshmukh RA and Shinde GB (1975) On a new species of the genus *Uncibilocularis southwelli*, 1925 from marine fish from West Coast of India. *Marathwada University J. Sci.* 14: 333-337
- Deshmukh RA (1979) On three new species of *Uncibilocularis southwelli*, 1925 (Cestoda: onchobothridae) from marine fishes with a key to the species of the genus. *Proc Nat. Acad. Sci. India*, 49(B) IV.
- Jadhav BV and Shinde GB (1981): *Uncibilocularis veravalensis* n. sp. (Cestoda:Onchobothridae) from Indian marine fish from West Coast of India. *Indian Journal parasitology* 5:113-115.
- Jadhav BV, Shinde GB and Phad AN (1982) On a new species *Uncibilocularis southwelli* (1925) (cestoda:tetraphyllidae) from T.sephen at Bombay. *Helminthologia*, 21:17-20 (1984).
- Shinde GB and Chincholikar LN (1975) On a new species of *Uncibilocularis*Southwell 1925 from marine fish (Trygon) from Ratnagiri, *Maharashtra Uni. J. Sci.* 14:349-345.
- Shinde GB and Chincholikar LN (1976) On a new cestode*Uncibilocularis Southwelli* (Cestoda: Onchobothrida) from marine fish at Ratnagiri, India, *Marathwada Uni. J. of Science*,15:263-267.
- Southwell T (1925) A monograph on Tetraphylliidea with notes on related cestode. *Man. Live P. Sch-I Med.* 2:368.
- Subhpradha CK (1955) Cestode parasites of fishes of Madras coast. *Indian Journal of Helminth.* 7:41-132
- Jadhav BV, Shinde GB, Muralidhar A and Mohekar AD (1989) Two new species of the Genus *Uncibilocularis* Southwell (1925) from (Cestoda- Onchobothridae) India. *Indian J. of Helminthology* Vol. XXXXI No. 1 march 1989 PP.41:14-20.
- James P Bernot, Janine N Caira and Maria Pickering. (2015) The Dismantling of *Calliobothrium* (Cestoda: Tetraphylliidea) With Erection of *Symcallio* n. gen. and Description of Two New Species. *Journal of Parasitology*, 101:2, 167-1.