

A new species *Phoreiobothrium gawali* from *Carcharias acutus* [Muller and Henle, 1906] at Bancot, Ratnagiri M.S.

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Abstract

A New species of cestode *Phoreiobothrium gawali* was erected from the marine fish *Carcharias acutus* Muller & Henle, 1841 (Yamaguti, 1959) collected from Bancot (West coast of India). We have describe this new species in the genus *Phoreiobothrium* Linton 1889. We have four *P.gawali* different from other species in body measurement, scolex length, and breadth sucker neck testes. Ovary vagins genital pore vitellaria host and locality.

Keywords: Dusky shark, Bothridia, Corticulator.

INTRODUCTION

The genus *Poreiobothrium* was erected by Linton 1889 to accommodate a cestode recovered from a dusky shark *Carcharias obscurus* at woods hole with its type species *P.lasium* Linton 1901 (Yamaguti, 1959) reported *P.triloculatum* (Yamaguti, 1959) from *Carcharias obscurus*. Later he added two new species i.e. *P. expectum* & *P. pectunatum*. Shrivastva & Cooper (1982) reported *P.puriensis* from *Zugaena blochi* at Puri, Orissa. Later on Jadhav & Shinde in 1984 added *P. arabiansis* than Shinde & Jadhav 1987 describe *P.ratnagirriensis* from *Carcharias acutus* at Ratnagiri. Later on Jadhav et.al.(1990) describe *P. carchariasae* from *Carcharias acutus* at Bombay.

MATERIAL AND METHODS

The marine water fish *Carcharias acutus* Muller & Henle 1906 (Yamaguti, 1959) were collected from Banket, Ratnagiri they were collected and observed under microscope flattened fixed in 4% formalin stained with Harris's haematoxyline dehydrated & mounted in D.P.X. Drawing were made with the help of aid of camera Lucida. All measurements were done in millimeters.

DESCRIPTION

Ten specimens of cestode parasite were collected from spiral valve of *Carcharias acutus* (Muller & Henley) At Bancot. The tapeworms measures 33 in length & 0.6 in breadth.

The scolex is pear shaped measures 0.599(0.558-0.640) in length & 0.389(0.364-0.412) in breadth. It bears four sessile bothridia which measures 0.630(0.582-0.679) in length & 0.090

(0.089-0.097) in breadth. These are slightly elongated each armed with pair of hooks. The hooks are trifurcated the outer middle & the inner prong with handle. The middle prong is somewhat longer than outer & inner prong. The outer prong measures 0.124 (0.123-0.125) in length & 0.012 (0.011-0.014) in breadth, the inner prong measures 0.084 (0.083-0.085) in length & 0.006(0.002-0.011) in breadth. The handle measure 0.124(0.123-0.126) in length & 0.010 (0.005-0.016) in breadth Each bothridium bears four oval suckers, which measures 0.090 (0.083-0.097) in length & 0.072 (0.009-0.048) in breadth.

Neck is long measures 0.223 (0.218-0.228) in length & 0.099(0.097-0.102) in breadth mature segment is four longer than broad measures 2.235 (2.197-2.273) in length & 0.522 (0.515-0.530) in breadth. The testes are 98-101 in number, oval in shape measures 0.110(0.106-0.114) in length & 0.030 (0.015-0.045) in breadth. Cirrus pouch oval in shape, measures 0.310(0.303-0.318) in length & 0.019 (0.016-0.022) in breadth cirrus short curved measures 0.219 (0.212-0.227) in length & 0.012(0.008-0.015) in breadth. Vas deferens runs anteriorly measures 0.234 (0.227-0.242) in length & 0.11(0.008-0.015) in breadth. The ovary "U" shaped above the post margin of the segment measures 0.644(0.568-0.720) in length & 0.20(0.075-0.31) in breadth, lobes are unequal; right lobe is longer lobe than left. The receptaculum seminis measures 0.665 (0.649-0.682) in length & 0.018(0.015-0.022) in breadth.

Vagina & cirrus pouch open into common genital pore which measures 0.041(0.038-0.045) in length & 0.015 (0.008-0.022) in breadth. Vitella is granular corticular.

RESULT AND DISCUSSION

The genus *Phoreiobothrium* was erected by Linton 1889 as a type species *P.lasium* from *Carcharias obscurus* at woodland hole. The present communication deals with new species of the genus *Phoreiobothrium gawali* having pear shaped scolex neck long mature segment four times longer than broad ovary "U" shaped vitellaria granular & corticular. It differs from *P.triloculatum* having bothridium whose posterior margin with loculi hooks paired trifurcated testes 150-160 in number from *P. exceptum* having the bothridium enlarge towards post end six loculi hooks paired & bifurcated from *P. pectinactum* is having the

Received: April 12, 2012; Revised: May 18, 2012; Accepted: June 15, 2012.

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bothridium with 7 loculi with 7 papillae paired trifurcated hooks in the middle prong.

From *P.purinsis* having scolex pyramidal, bothridium with post end divide into 12 or more loculi, Testes 125-140 in number, cirrus pouch oval vagina anterior to cirrus pouch & vitellaria follicular from *P.aurangabadensis* which having 4 quadrangular bothridia hooks trifurcated testes 60-75 in number from *P. ratnagiriensis* with scolex quadrangular with spines bothridium with single large loculus testes 180(175-185) In number mature segments with spines vagina anterior to cirrus pouch.

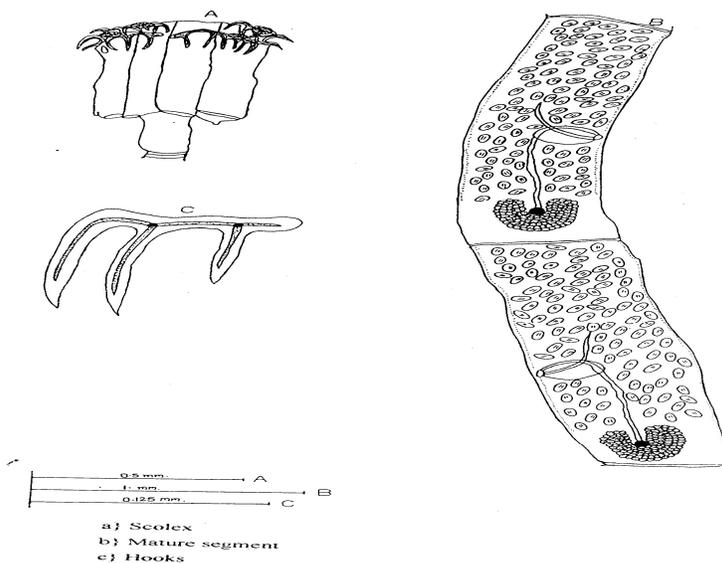
From *P.shindei* which is having the scolex quadrangular with bothridium testes 92-98 in number cirrus pouch oval just posterior to

middle of segment ovary bilobed from *P. carchariasae* which is having the scolex rectangular without spines bothridium with single loculus testes 180-190 number.

The above justifying characters are valid enough to create a new species *P.gawali* n.sp. proposed in Honor of Dr. B.E. gawali who has helped the authors in the field of research.

Type species: *Phoreiobothrium gawali*
 Host: *Cracharis acutus* (Muller and Henle, 1906)
 Habitat: Intestine.
 Locality: Bancot, Ratnagiri M.S. India.

***Phoreiobothrium gawaliae* n.s.p.**



ACKNOWLEDGEMENT

The authors are thankful to U.G.C. authority for sanction the minor research project and thanks also due to principal Nutan collage Sailu and Arts Commerce & Science College Sonai for providing necessary laboratory and library facilities.

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