PLATE: IX

Moniezia parturensis n.sp.

A  Scolex
B  Mature segments
The gravid segments were not available.

**DISCUSSION**

The genus *Moniezia* was established by Blanchard, 1891 as a type species, *Moniezia expansa* from *Ovis aries*, Skrjabin and Schulz, 1937 divided this genus, into three sub-genera as follows:

(I) Interproglottidal glands grouped in rosettes.... *Moniezia*

(II) Interproglottidal glands arranged lineally (Some times absent) ..... *Blanchariezia*

(III) Interproglottidal glands absent *Baerizia*

The present worm agrees, in all the characters, with the subgenus *Blanchariezia* Skrjabin and Schulz, 1934 which is having four species, as indicated in the introduction of this species.

The worm under discussion, is having scolex large, simple, narrow anteriorly and posteriorly, broad in the middle; the mature proglottids large, broader than long; testes medium, oval, 130-140 in number; vas deferens thin, of medium length, curved; ovary large, inverted 'U' shaped;
vagina at thick tube, wide, posteroverentral to cirrus pouch, enlarges to form receptaculum seminis; genital pores medium, bilateral; interproglotidal glands arranged in two rows, 18-19 in number, and reported from the host, sheep, Ovis bharal.

1. The present worm in having testes 130-140, comes closer to Moniezia (Blanchariezia) bharalae, but differs from it, which is having the mature segments broader than long, testes 190-200 in number, distributed in 1/2 to 3/4th of the segments, ovary compact, bilobed; interproglottidal glands in two rows; at posterior margin of the segment, 38-44 in number seminal vesicle elongated, fusiform; cirrus pouch small, oval, obliquely placed; vitelline gland absent and reported from the host sheep, Ovis bharal.

The comparative chart, showing the additional characters is given at the end.

The above noted characters, are valid enough, to accommodate, these worms in to a new species and hence the name Moniezia (Blanchariezia) parturensis n.sp. is proposed, after the locality.

Tupe species          Moniezia (B.) parturensis n.sp.
Host                  Ovis bharal
Habitat               Intestine
Locality              At Partur, Tq. Partur
                       Dist. Jalna, M.S., India.
Date of collection    19th August, 1997.
Comparative statement of the genus **Monicecia** Blanchard, 1891. Sub-genus **Bianchariecia** Skrabin & Schulz, 1937.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Scolex</td>
<td>Large globular</td>
<td>Simple, almost squarish in shape</td>
<td>Large, simple</td>
</tr>
<tr>
<td>Mature proglottides</td>
<td>Borader than long almost 4-5 times</td>
<td>Broader than long, almost five and half times</td>
<td>Very large, broader than long.</td>
</tr>
<tr>
<td>Testes</td>
<td>300-320 in number, distribution throughout the segment, in single field.</td>
<td>172, small, oval distributes through the segment, in central medulla in a single field.</td>
<td>130-140, in number scattered all over the segment.</td>
</tr>
<tr>
<td>Ovary</td>
<td>Indistinctly bilobed, with 13-15 short, blunt acini, transversely elongated.</td>
<td>Single mass, oval, with irregular margin with many short blunt acini on each lateral sides.</td>
<td>Large, inverted 'U' shaped indistincting bilobed, 24-27 short blunt round acini.</td>
</tr>
<tr>
<td>Interproglottid glands</td>
<td>56 in number, medium in size, oval in shape.</td>
<td>54 in number, medium oval arranged lineally.</td>
<td>18-20 pairs at Resterier magin.</td>
</tr>
<tr>
<td>Cirrus pouch</td>
<td>Medium, oval, transversely elongated, slightly obliquely placed, extend beyond longitudinal excretory canal.</td>
<td>Medium, oval, at one fourth from the posterior margin of the segment obliquely placed not reaching up to the longitudinal excretory small.</td>
<td></td>
</tr>
<tr>
<td>Vitelline gland</td>
<td>-</td>
<td>Small, compact lobe, postovarian, just touching the acini.</td>
<td>Large rough oval.</td>
</tr>
<tr>
<td>Vagina</td>
<td>Wide posterior to the cirrus pouch.</td>
<td>Posterior to cirrus pouch.</td>
<td></td>
</tr>
<tr>
<td>Host</td>
<td>Capra hbecus L. (Domestic Goat)</td>
<td>Copra hbecus L. (Domestic Goat)</td>
<td>Ovil Bharat.</td>
</tr>
<tr>
<td>Characters</td>
<td>M. bharalae</td>
<td>M.(B) Moniezia purturensis n.sp.</td>
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<tr>
<td>--------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shinde et al., 1985</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scolex</td>
<td>Not available</td>
<td>Simple large.</td>
<td></td>
</tr>
<tr>
<td>Mature segment</td>
<td>Broad than long</td>
<td>Broader than long</td>
<td></td>
</tr>
<tr>
<td>Testes</td>
<td>190-200 in number, distributed in one-half of 3/4 of the segment.</td>
<td>130-140 in number scattered all over the segment</td>
<td></td>
</tr>
<tr>
<td>Ovary</td>
<td>Bilobed and compact, present on each lateral side of segment</td>
<td>Large, inverted 'U' shaped having 24-27 stirt blunt, round acini placed in the middle of segment.</td>
<td></td>
</tr>
<tr>
<td>Interproglottid gland</td>
<td>In two rows at posterior margin and 38-44 in number.</td>
<td>18-19 pair, oval and round at posterior.</td>
<td></td>
</tr>
<tr>
<td>Seminal vesicle</td>
<td>Elongated, fusiform</td>
<td>Medium, oval, situated in middle of segment.</td>
<td></td>
</tr>
<tr>
<td>Cirrus pouch</td>
<td>Small, oval obliquely placed.</td>
<td>Medium roughly oval.</td>
<td></td>
</tr>
<tr>
<td>Vitelline gland</td>
<td>Absent</td>
<td>Large</td>
<td></td>
</tr>
<tr>
<td>Receptaculum</td>
<td>-</td>
<td>Large</td>
<td></td>
</tr>
<tr>
<td>Host</td>
<td>Ovis bharal (Sheep)</td>
<td>Ovis bharal</td>
<td></td>
</tr>
<tr>
<td>Locality</td>
<td>Aurangabad, M.S., India</td>
<td>Partur, Dist. Jalna, M.S., India.</td>
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</tbody>
</table>
Key to the species of the genus *Moniezia* Blanchard, 1891

- Mature segments
  broader than long ... 1

  Mature segment squarish ... *M. (B.) pallida*
  Monning, 1926.

1 Cirrus pouch oval ... 2

- Cirrus pouch cylindrical ... *M. (B.) aurangabadensis*

2. Testes in between 130-140 in number ... *M. (B.) parturensis*
  n.sp.

- Testes below 200 in number ... *M. (B.) bharalae*

  Testes more than 400 in number ... *M. (B.) benedeni*
  (Moniez, 1879, Skrjabion Schulz, 1937).
Eucestoda
Wardle, McLeod and Radinovsky, 1974.

Anoplocephalidea
Wardle, McLeod and Radinovsky, 1974.

Linstawiidae
Fuhrmann, 1932.

Oochoristica
Lune, 1898

Oochoristica gracewileyae

DESCRIPTION

Twelve specimens, of the cestode parasites, were collected, from the intestine, of a wall lizard, Hemidachytus at Wanjala, Tq. Mantha, Dist. Jalna, M.S., India; in the month of September, 1998.

The parasites were long, wide, having thin muscular, with scolex, numerous immature and mature proglottids.

The cestode parasites, were flattened, preserved in 4% formalin, stained with Harris haematoxylin, passed through various alcoholic grades, cleared in xylol, mounted in D.P.X. and whole mount slides were prepared, for further anatomical studies.

The scolex is medium in size almost quadrangular in shape, slightly broad at middle, narrow at both the ends,
indistinctly marked off from the strobila and measures 0.180 to 0.223 in length and 0.218 to 0.570 in breadth.

The suckers are medium in size, oval in shape, arranged in two pairs, one pair in each half of the scolex, touching to each other and slightly overlapping on each other in different pairs, situated in the four corners of the scolex, almost indistinctly placed and measure 0.078 to 0.087 in length and 0.067 to 0.083 in breadth.

The neck is a medium length, rectangular in shape, with slightly concave or convex lateral margins slightly wider anteriorly, narrow posteriorly and measures 0.557 to 0.582 in length and 0.180 to 0.218 in breadth.

The mature proglottids are medium in size, squarish in shape, slightly longer than broad, either with concave or convex lateral margins, uneven in length, with or without short, blunt, round projections, either on the posterior or anterior corners of the segments, acrespedate and measure 0.557 to 1.129 in length and 0.669 to 0.703 in breadth.

The testes are medium to large in size, oval in shape, 95 - 105 (100) in number, in a single field, almost evenly distributed from anterior to the posterior margin and from one lateral to the other lateral margin of the segments, majority of them bounded by the longitudinal excretory canals, few
outside the same, occupy the whole segment except the region of the ovary, ootype, vitelline gland, cirrus pouch and measures 0.194 to 0.399 in length and 0.194 to 0.345 in breadth.

The cirrus pouch is medium in size, elongated, spindle shaped in appearance, broader in the middle, tapering on both the sides, slightly obliquely placed, directed anteriorly, crosses the longitudinal excretory canals, situated in anterior one third to one fifth region of the segments and measures 0.141 to 0.150 in length and 0.015 to 0.039 in breadth.

The cirrus is thin, stout, slightly curved, coinstained with in the cirrus pouch and measures 0.150 in length and 0.005 in width.

The vas deferens is thin, long, coiled, extending towards the anterior margin of the segments and measures 0.393 in length and 0.005 in breadth.

The ovary is large in size, follicular, distinctly bilobed, situated in the anterior half of the segments slightly towards the aporal region, lobes with 10 - 11 long, separate, wide, finger shaped, acini and measures 0.097 to 0.334 in length and 0.155 to 0.403 in breadth.
The isthmus is short, wide, connecting the two ovarian lobes and measures 0.023 to 0.026 in length and 0.097 in breadth.

The vagina is medium in size, tubular in shape, situated posterior to the cirrus pouch, arises from the genital pore, runs obliquely, almost upto 1/3rd width of the segment, takes a turn posteriorly, runs obliquely, crosses the ovary and isthmus reaches and opens into the ootype and measures 0.587 to 0.592 in length and 0.010 to 0.015 in breadth.

The ootype is large in size, oval in shape, situated in the concavity of the ovarian lobes, near the aporal lobe of ovary, touching posteriorly to the vitelline gland, obliquely placed, elongated anteroposteriorly, placed in the aporal half of the segments and measures 0.049 to 0.097 in length and 0.034 to 0.063 in breadth.

The genital pores are medium in size, oval in shape, highly muscular, situated at the anterior one fourth region of the segments, irregularly alternate, marginal and measure 0.063 to 0.083 in length and 0.063 to 0.078 in breadth.

The vitelline gland is follicular large in size, roughly irregular in shape, almost triangular in shape wide anteriorly, narrow posteriorly, situated in the aporal region at the mature segments, situated just posterior to the middle