



A NEW SPECIES OF *DAVAINEA DOMESTICUSAE* N.SP.BLANCHARD, 1891 (DAVAINE, 1860) FROM *GALLUS DOMESTICUS*

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ABSTRACT:

Blanchard, 1891 (Davaine, 1860) erected a new genus, *Davainea* with its type species *D. proglottina* from *Gallus domesticus*. The present communication deals with the description of a new specie, as *Davainea domesticusae* n. sp., which having scolex is small, round in shape, 0.248 to 0.456 in diameter the rostellar hooks are 460 in number, testes are 21 in number and length of cirrus pouch is 0.599mm and Collected from *Gallus domesticus*, at Tisgaon, Dist. Ahmednagar, M. S. India.

Key words : *Davainea* , *domesticusae*, *Gallus*, *domesticus* Blanchard

INTRODUCTION:

The present work deals with the description of a new species of the same genus as *Davainea domesticusae*. From *Gallus domesticus* Later on the 20 new species are added in this genus. The present communication deals with the description of a new species, as *Davainea domesticusae* n. sp. Collected from *Gallus domesticus*, at Tasgaon, Dist. Ahmednagar, M. S. India.

MATERIAL & METHODS:

Seventeen specimens of the cestode parasite, were collected from the intestine of a Hen, *Gallus domesticus*, the worms were small, thin, with scolex, numerous immature and mature proglottids. These worms were flattened, preserved in 4% formalin, stained in Harris haematoxyline, passed through the various alcoholic grade and cleared in xylol, mounted in D.P.X. and whole mount slides were prepared for further anatomical studies

DESCRIPTION:

The scolex is small, round, broad in middle with armed rostellum, four suckers and measures 0.248 to 0.456 in length and 0.165 to 0.503 in breadth.

The four suckers are medium, oval, arranged transversely measures 0.097 to 0.112 in length and 0.087 to 0.107 in breadth.

The rostellar hooks are 460 in number arranged in single circle, hooks are small, and single pronged and measures 0.053 to 0.063 in length and 0.005 to 0.024 in width.

The neck is medium, rectangular, longer than broad and measures 0.534 to 0.679 in length and 0.374 to 0.466 in breadth.

The mature segments are medium in size, squarish in shape, acraspedote and measures 0.127 to 0.887 in length and 1.180 to 1.539 in breadth.

The testes are small, medium, oval arranged in two lateral fields, all post ovarian 21 in number, and measures 0.060 to 0.076 in length and 0.053 to 0.076 in breadth.

The cirrus pouch is medium, flask shaped curved posteriorly extend up to the longitudinal excretory canals and measures 0.3180 in length and 0.167 in breadth.

The cirrus is a thin tube, slightly coiled contained within the cirrus pouch and measures 0.599 in length and 0.08 in width.

The vas deference, is thin tube pre ovarian, and measures 1.198 in length and 0.008 in width.

The ovary is medium, butterfly shaped in appearance, bilobed, and measures 0.358 to 0.402 in length and 0.038 to 0.205 in breadth.

The pre ovarian lobes are joined by an isthmus which is short, narrow and measures 0.023 in length and 0.015 in breadth.

The vagina is medium in width placed posterior to the cirrus pouch, start from the genital pore, run obliquely, crosses longitudinal excretory canal, enlarge near ootype and ovary to from the seminal receptacle, reaches and open in to the ootype and measures 0.697 in length and 0.008 in width.

The seminal receptacle is posterior to middle of the segment placed, in between the two ovarian lobe, and measures 0.076 to 0.114 in length and 0.015 to 0.045 in breadth.

The ootype is small in size, round, post ovarian and measures 0.023 in diameter. The vitelline gland is of the medium, roughly oval, situated

posterior to the ovary on the lateral side, elongated diagonally and measures 0.045 to 0.083 in length and 0.045 to 0.068 in breadth.

The genital pores are small in size, oval in shape at 1/3rd from the anterior margin of the segment, and measures 0.053 in length and 0.008 to 0.015 in breadth.

The longitudinal excretory canal is thin and measures 0.008 in breadth. The gravid segments were not available.

RESULT & DISCUSSION:

The present worm differ from *D. Proglottina* which having the diameter of scolex.13-0.20, diameter of sucker 0.02-0.03,length of cirrus pouch0.25,number of testes 19,and repted from *Gallus gallus*

The present worm differ from *D. meleagrids* which having diameter of scolex is0.14-0.17, diameter of sucker 0.04-0.05,length of cirrus pouch0.24,number of testes16-20.

The present worm differ from *D. ambajogainsis* which having diameter of scolex is 0.36 - 0.40, diameter of sucker 0.06 - 0.08, length of cirrus pouchis not mentioned, number of testes18 - 20.

The present cestode differ from *D. indica* which having diameter of scolex is 0.45, diameter of sucker 0.06 - 0.08 number of rostellar hook 150 - 160, length of cirrus pouch0.18,number of testes 24.

The present cestode differ from *D. minuta* which having diameter of scolex is 0.21, length of cirrus pouch 0.16, number of testes10-12.

The present cestode differ from *D. pauci segmentata* which having diameter of scolex is 0.70, length of cirrus pouch 0.20, number of testes 40.

The present tapeworm differ from *D. himantopodia* which having diameter of scolex is 0.14, number of rostellar hook 50, number of testes 4.

The present cestodediffer from *D. nana* which having diameter of scolex is 0.32, number of rostellar hook 50, length of cirrus pouch 0.34, number of testes 50.

The present cestode differ from *D. tetraoensis* which having diameter of scolex is 0.14, length of cirrus pouch 0.18-0.18, number of testes 30.

The present tapeworm differ from *D. andrei* which having diameter of scolex I is 0.45, length of cirrus pouch 0.18 - 0.22, number of testes 14.

The present tapeworm differ from *D. baeri* which having diameter of scolex I is 0.30, the no of rostellar hooks 400, length of cirrus pouch 0.12, number of testes 9-10.

The present cestode differ from *D. chauhani* which having number of testes 120.

The present cestode differ from *D. retharei* which having diameter of scolex is 0.163 x 0.142 - 0.171, number of rostellar hook 35- 40, length of cirrus pouch 0.180, number of testes 65 - 75.

The present cestode differ from *D. thapari* which having diameter of scolex is 0.562 x 0.123 - 0.171, number of rostellar hook 48, length of cirrus pouch 0.081, number of testes 45-48.

The present tapeworm differs from *D. aurangabadensis* which having diameter of scolex is 0.099 x 0.26 - 0.082, number of rostellar hook 16, length of cirrus pouch 0.085, number of testes 7-8.

The present cestode differs from *D. osmanabadensis* which having, number of rostellar hook 12, number of testes 30-35.

The present tapeworm differ from *D. shindei* which having diameter of scolex is globular., number of rostellar hook 320, number of testes 20-22.

The present tapeworm differ from *D. ibasae* which having diameter of scolex is 0.354 - 0.437 x 0.35 - 0.442 number of rostellar hook 320, length of cirrus pouch 0.218, number of testes 16-20

The present cestode differ from *D. alt* which having diameter of scolexis medium, number of rostellar hooks 14, length of cirrus pouch 0.141, number of testes17-20 (17)

The present tapeworm differ from *D. shrigondaensis* which having diameter of scolex is medium oval0.427-0.461 in length, number of rostellar hooks 72, length of cirrusia a thin tube, coiled and measures 0.315 in length, number of testes37-39(38)

CONCLUSION:

By observing the above noted distinct characters there is no other way to the author, than to erect a new species, for these worm and hence the name *Davainea domesticusae* n .sp. is proposed, after the species name of the host.

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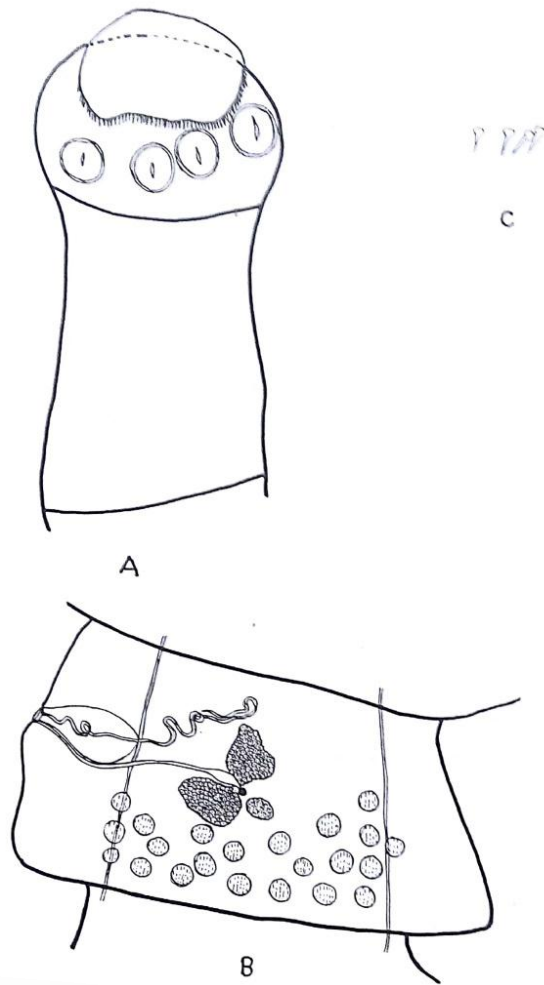
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Davainea domesticusae n.sp.

- A Scolex
- B Mature segments
- C Hooks