

RESEARCH REPORT

A New Species Of Genus *Aliezia* From Domestic Goat From Amravati Region (M.S) India.

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ABSTRACT

The present paper deals with the new species of the cestode from the genus *Aliezia*. Collected from small intestine of domesticated sheep from Warud in Dist Amravati of Maharashtra. It is characterised by having four suckers, narrow neck, and mature segments with double set of reproductive organs with interproglottidal glands in one row on either side of proglottid at their lateral corners at intersegmental region.

Key words: *Aliezia*, *Capra hircus*

INTRODUCTION

Shinde erected the genus *Alizia*, in 1968 with its type species *Alezia indica*, from sheep He also reported a new species, *Aliezia indica minor* from the same host later on Ali and Deshpande redescribed the same genotype in 1971, from deer. Shinde et al., (1979) add one more species *Aliezia aurangbadensis* in 1979. The present form is reported from a goat, *Capra hircus* L, which is having many distinct and differentiating characters and reported here as *Aliezia desh mukhi* n.sp. collected at Warud, Dist. Amravati, M.S. India.

Description:

The four suckers are present, large in size, oval in shape, arranged in two pairs, one pair in each lateral half of the scolex, slightly overlapping in one pair, occupy on lateral side of the scolex and measures 0.567-0.705 in length and 0.417-0.606 in width. The neck is medium in length, slightly narrower than scolex and measures 1.736-1.211 in length and width.

The mature segments are broader than long, almost eleven times broader than long each with a double set of reproductive organs. One on each side with slightly convex lateral margin, without projections at the anterior or the posterior corners of the segments and measures 0.201-0.246 in length and 3.102-3.245 in width.

Testes are small in size, almost oval in shape, seven in number on each side, in two lateral groups the vagina, placed on the outer side of the ovary on both the sides of the longitudinal excretory canals and measures 0.030-0.076 in length and 0.0023-0.060 in width. The cirrus pouch is small in size, long cylindrical in shape, slightly straight, slightly in the anterior half, not touching to the longitudinal excretory canal and measures 0.045-0.041 in length and 0.023-0.032 in width.

The cirrus is thin, slightly straight, muscular unarmed, contained within the cirrus pouch and measures 0.045-0.091 in length and 0.023-0.038 in width.

The vas deferens is short, slightly curved, extended beyond the longitudinal excretory canals and measures 0.295-0.321 in length and 0.015 in width.

The genital pores are bilateral, small in size, oval in shape, situated at the 1/3rd from the anterior margin of the segments and measures 0.015 in length and 0.030 in width.

The ovary on each side is situated internal to the testes and longitudinal excretory canals. It is medium in size oval in shape, a single mass, compact, situated either in the center or in the the posterior margin of the segments, obliquely placed and measures 0.265-0.326 in length and 0.121-0.144 in width.

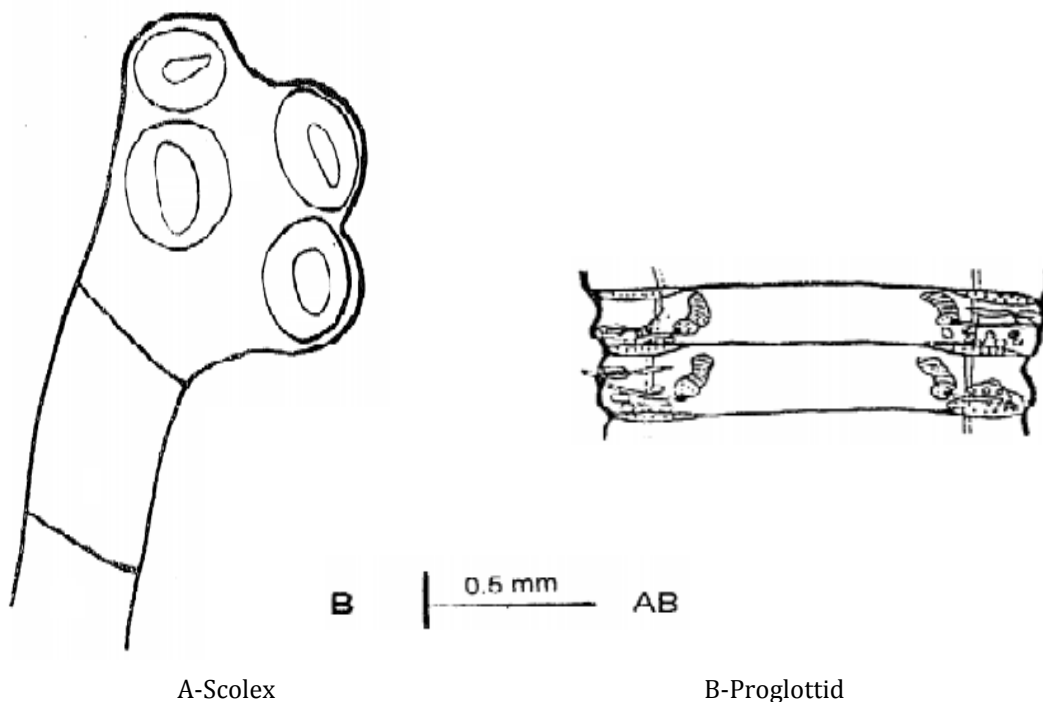
The vagina is a thin tube, started from the genital pore, situated posterior to the cirrus pouch, runs transversely, slightly oblique, in the side of the seg. Reaches and opens in to the ootype and measures 0.697-0.780 in length and 0.015 in width.

The ootype is small in size, oval in shape, situated lateral to the ovary either anterolateral or posterolateral to it and measures 0.083- 0.114 in length and 0.076-0.098 in width.

The interproglottidal glands are small in size, rounded in one row, present on either side of the proglottids, at their lateral corners in the inter-segmental regions nine in number on each side. The vitelline gland absent. The excretory canal is thick, marginally placed and measures 0.202-0.238 in length and 0.041 in width.

DISCUSSIONS

The genus *Alizia* is erected by Shinde (1968) with its type species *Alizia indica* from a sheep. He has also reported a new species *Alizia indica* minor from the same host. Later on S.M. Ali and G.T.Deshpande, redescribed the same genotype in 1971 from a deer. One more species *Aliezia aurangabadensis* is added by Shinde et al. (1979).



The present warm, *Aliezia deshmukhi* n.sp. agrees in all characters with the genus *Aliezia* in which three species are added by the different workers in the world.

1. The present form, in the size of the scolex differs from *Alizia indica* (1.741x1.544 as against 1.22 x0.96) from *Alizia indica* minor (1.0741*1.0544 as against 0.95*1.22) from *Alizia indica*, Ali and Deshpande. (1.741x1.544 as against 1.74x1.17)
2. It differs in having a defined number of testes on each side of the proglottids, from *Alizia indica* (7, in two groups on each side as against 4-5 on each side), from *Alizia indica* S.M. Ali and G.T. Deshpande (7, in two groups on each side as against 4-7 in from *A. aurangabadensis* (7, in two groups on each side as against 4.)
3. It differs from *Alizia indica* and minor, in the total no. of inter-proglottidal glands, the corners in each segment (9, in one row in each side as against 10-12 in two rows on each side), from *Alizia indica*. Ali and Deshpande (9, in one row on as against 10-14 in two rows, on each side)
4. It differs in the breadth of the mature proglottides from *Alizia indica* minor (3.104-3.255) as against 1.67), from *Alizia indica*, Ali and Deshpande (3.104-0.225 as against 1.28-1.30) and from *A. aurangabadensis*, Shinde et al. (2010) (3.104-3.255 as against 1.28-1.50)-
5. It differs from *Alizia indica* in the position of cirrus pouch (situated at just anterior margins of the seg. At 1/4th), from *Alizia indica* minor (situated at just anterior to the middle of the segment as against in the anterior half, at 1/3rd), from *Alizia indica*, Ali & Deshpande (situated at anterior to the middle of the segments as against in the anterior half at 1/4th) and from *A. aurangabadensis*, Shinde, Jadhav and Kadam (situated at just anterior to the middle of the segments.)
6. The host of the present form is intestine of goat, *Capra hircus* were as the same of *Alizia indica* and *Alizia indica* minor in sheep, *Ovis bharel* and of *Alizia indica*, Ali and Deshpande in deer cervus sp. And of *A. aurangabadensis*, Shinde, Jadhav and Kadam is goat, *capra hircus*.

Hence, it is regarded as a new species and is named as *Alizia deshmukhae* after the name of Dr. Bhausaheb Deshmukh the great educationalist and Agriculturist from Maharashtra.

Type species *Aliezia deshmukhi* n.sp,
Host *Capra hircus*
Habitat Small intestine.
Locality Warud, Amravati dist, MS. India.
Date of collection 22nd Oct. 2000.

A Key to the species of genus *Aliezia* (Shinde, 1969)

Vas deference in no -1.

- Testes 4 in no. - *A. aurangabadensis* Jadhav et al., 1975.
Testes 4-5 in number - *Alizia indica* minor Shinde, 1969.
Testes 7-9 in number - *A. Deshmukhae* n.sp.

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