

Dr. Bellings

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NOTES ON PARASITES.

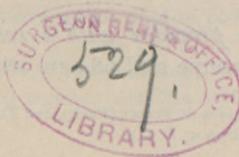
BY

CH. WARDELL STILES.

presented by the author

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31 : **An early Stage of Rabbit Tapeworms.* (Preliminary note.)

(31 : Une phase précoce des Ténias du Lapin. (Notice préliminaire) ; Bul. Soc. Zoöl. d. France, XIX, séance du 11 Décembre, 1894, pp. 163-165).

In 1887 Dr. Curtice examined a rabbit (*Lepus sylvaticus*) in which he found a number of tapeworms in various stages of development. He made an extremely important observation on the younger specimens, which unfortunately he never published. In a reporter's interview, in *Science* (N. Y.), March 23, 1888, however, appears a short account of Curtice's find. This article was copied in the *Texas Live-Stock Journal*, April 14, 1888, but owing to the inaccessibility of the publications, and the lack of details, Curtice's observation has not received much attention from helminthologists. The only author—so far as I am aware—who has taken cognizance of it is Railliet (*Traité de Zoöl. Méd. et Agric.*, 1893, p. 268).

It is therefore with considerable pleasure that I take this occasion to confirm Curtice's observations and to extend them in some particulars. While examining several rabbits for *Distomum tricolor* I found several very small Cestoda in the intestine. They varied from 0.624 mm. to 0.96 mm. in length, and had not yet begun to form segments. The majority of the specimens presented no particular peculiarities, the heads being those of ordinary unarmed *Anoplocephalinæ*. Several of them, however, presented characters which are deserving of special notice.

The head (balsam preparation) measures 0.32 mm. in diameter and grades imperceptibly into the neck. The suckers are slightly elongated, measuring 184μ by 120μ ; the muscular wall measures 32μ . *The opening of the suckers is beset with numerous thickly set minute hooklets*; it is impossible to count these hooks, but there must be 150 or 200 at least to each sucker.

The apex of the head is provided with a retracted rostellum, measuring 92μ in its transverse and 68μ in its antero-posterior

* Presented before the Société Zoologique de France (Paris), and The Medical Association of the National Veterinary College (Washington, D. C.).

diameter. *The equator of this rostellum is bounded by a row of hooklets. In several specimens the posterior portion of the head and the neck are covered with a surrounding membrane, which is just on the point of being shed, while in one specimen this surrounding membrane covers almost the entire head.*

The hooklets mentioned above are, like the surrounding membrane, only temporary structures, for they are very soon shed, leaving the head with the characteristic appearance of the *Anoplocephalinæ* in general.

From the description and from the mounted specimen which I forward to my friend Professor Blanchard for exhibition to the Society, it will readily be seen that the head of this Anoplocephaline tapeworm (gen. and sp. undetermined) bears a certain resemblance to the heads of certain bird tapeworms cf. for instance the head of *Davainea proglottina et al.* The young stage of this tapeworm is also seen to be cysticeroid, and the importance of this fact in connection with the life history of other members of the sub-family *Anoplocephalinæ*, for instance *Moniezia*, in cattle and sheep, is self-evident.

A fuller account of this rabbit tapeworm, with illustrations, will appear in the publications of the Bureau of Animal Industry.

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35: *Errata to Notes 21, 28, 29 and 30.*

In the summary of Note 21 (THE VETERINARY MAGAZINE, 1894, Vol. I., and Bul. Soc. Zoöl. d. France, 1894, XIX), change 7 and 8 of analytical table (p. 432, VETERINARY MAGAZINE, p. 90, Bul. cit.) to read as follows:

- | | | | |
|----|---|--|---------------------|
| 7. | { | Spines absent; body 10-18 mm. long; vitellogene glands straight,
in lateral fields of middle third of body, not extending anterior to
acetabulum | <i>D. felineum</i> |
| | | Spines present; body 5-10 mm. long; vitellogene glands surround the
uterus, coming together in median field, anterior to acetabulum . . | <i>D. complexum</i> |

8.	{	Anterior third generally somewhat constricted from posterior portion; ovary much smaller than testicles; body 2.5-3.5 mm. long; vitel- logene glands extend from near the œsophagus to middle of body, or even beyond, to anterior testicle <i>D. albidum</i>	
		Anterior third of body not constricted; ovary nearly or quite as large as testicles; body 6 mm. or more long	8a
8a.	}	Substitute 8 of original article	{ 9 10

In title of English article, p. 413, VETERINARY MAGAZINE, read *Dicrocoelium* in place of *Dicrocalium*.

Page 414, VETERINARY MAGAZINE, foot-note second paragraph, second sentence, read "with 14 (or 15?) on the right, and 15 (or 16?) on the left, instead of "of thirteen each." In third sentence, strike out last half "in fact" etc., cf., Note 30.

These errors, seemingly due to inexcusable carelessness on my part, should have been seen when I read the proof. As I wrote the foot-note referred to, and the summary of the article, when I was down with nervous prostration, and read the proof while in that condition, I take this opportunity to make these corrections. No excuses are made for the errors, as I look upon them as inexcusable.

The VETERINARY MAGAZINE, 1894:

- p. 729, Note 29, line 17, for *recorded* read *record*.
 - p. 732, Note 29, line 16, 28, 31 and foot note for *metatrem* read *metraterm*.
 - p. 733, Note 29, line 13, for *three* read *four*.
 - p. 733, Note 29, line 15, 16, for *metatrem* read *metraterm*.
 - p. 735, Note 29, line 4, 9, for *metatrem* read *metraterm*.
 - p. 736, Note 29, line 24, for *metatrem* read *metraterm*.
 - p. 737, Note 30, line 1, for *a* read *as*.
 - p. 739, Note 30, line 10, for *metatrem* read *metraterm*.
 - p. 740, Note 30, line 17, 32, for *metatrem* read *metraterm*.
- Bul. Soc. Zool. d. France*, 1894, XIX:
- p. 160, for *Journal* read *Magazine*.
 - p. 160, Note 28, line 3, after *américain* insert *Bos taurus*.
 - p. 161, Note 29, line 31, for *mêtrâtre* read *mêtraterme*.
 - p. 162, Note 30, title, for 1858 read 1856.
 - p. 162, Note 30, line 6, for 1858 read 1856.