

Accepted Manuscript

Title: *Trichinella britovi* biomass in naturally infected pine martens (*Martes martes*) of Latvia

Author: Muza Kirjušina Eduards Bakasejevs Patrizio Pezzotti
Edoardo Pozio



PII: S0304-4017(16)30162-5
DOI: <http://dx.doi.org/doi:10.1016/j.vetpar.2016.05.008>
Reference: VETPAR 8008

To appear in: *Veterinary Parasitology*

Received date: 23-12-2015
Revised date: 2-5-2016
Accepted date: 7-5-2016

Please cite this article as: Kirjušina, Muza, Bakasejevs, Eduards, Pezzotti, Patrizio, Pozio, Edoardo, *Trichinella britovi* biomass in naturally infected pine martens (*Martes martes*) of Latvia. *Veterinary Parasitology* <http://dx.doi.org/10.1016/j.vetpar.2016.05.008>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

***Trichinella britovi* biomass in naturally infected pine martens (*Martes martes*) of Latvia**

Muza Kirjušina¹, Eduards Bakasejevs¹, Patrizio Pezzotti², Edoardo Pozio^{2*}

¹Institute of Live Science and Technology, Daugavpils University, Daugavpils, Latvia;

²Istituto Superiore di Sanità, Rome, Italy

*Corresponding author. Tel.: +39 06 4990 2304; Fax +39 06 4990 3561.

Email address: edoardo.pozio@iss.it (E. Pozio)

Highlights

- Estimation of *Trichinella* larva biomass in a naturally infected host population
- The number of larvae per gram of a muscle is representative of the total biomass
- Total larval burden and larvae/g coefficients were established for the pine marten

Abstract

Parasites of the genus *Trichinella* are cosmopolitan nematodes infecting primarily wild animals, which represent the main reservoirs of these zoonotic pathogens. To investigate the transmission patterns of *Trichinella* spp. from wild to domestic animals and to humans and for the risk assessment of these parasites in a geographical area, it is important to know the number of possible transmission events deriving from carcasses of infected hosts. For this purpose, the evaluation of the larval biomass in reservoir hosts is needed. No data is available on how to estimate the biomass of *Trichinella* spp. larvae in muscles of naturally infected animals. The aim of this study was to evaluate the larval biomass in naturally infected pine martens (*Martes martes*) of Latvia, in which the prevalence of *Trichinella britovi* infection was over 50%. Single muscles or group of muscles (abdomen, back, diaphragm, intercostal muscles, muscles from the head, left and

Download English Version:

<https://daneshyari.com/en/article/5545938>

Download Persian Version:

<https://daneshyari.com/article/5545938>

[Daneshyari.com](https://daneshyari.com)