

Technical University of Denmark



A new report of the carnivore-transmitted *Taenia ovis* cysts infesting the heart muscles of sheep in Denmark

Petersen, Heidi Huus; Al-Sabi, Mohammad N.S. ; Larsen, Gitte; Jensen, Tim Kåre; Chriél, Mariann

Publication date:
2018

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):

Petersen, H. H., Al-Sabi, . M. N. S., Larsen, G., Jensen, T. K., & Chriél, M. (2018). A new report of the carnivore-transmitted *Taenia ovis* cysts infesting the heart muscles of sheep in Denmark. Abstract from Joint Spring Symposium 2018, Danish Society for Parasitology and Danish Society for Tropical Medicine & International Health , Copenhagen, Denmark.

DTU Library
Technical Information Center of Denmark

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

JOINT SPRING SYMPOSIUM 2018

Danish Society for Parasitology and Danish Society for Tropical Medicine &
International Health

Theme: "*Parasites shape the host*"

Time: Friday 6 April 2018

Venue: Festauditoriet (the Main Lecture Hall), building1-01, Bülowsvej 17, 1870 Frederiksberg C

A new report of the carnivore-transmitted *Taenia ovis* cysts infesting the heart muscles of sheep in Denmark

H Heidi H Petersen (1), Mohammad Al-Sabi (2), Gitte Larsen (1), Tim K Jensen (1) and Marianne Chriél (1)

(1) Section for Diagnostics and Scientific Advice, National Veterinary Institute, Technical University of Denmark, Bülowsvej 27, 1870 Frederiksberg C, Denmark

(2) Al-Zaytoonah University of Jordan

To our knowledge, this is the first report of *Taenia ovis* infections in Danish sheep. The cysts infested the hearts, diaphragm and skeletal muscles of at least 130 lambs from one specific farm localized in South Jutland in spring 2016. Morphological diagnosis is impossible due to high resemblance to other Taeniid infections, hence molecular typing of the mitochondrial cytochrome c oxidase I (cox1) gene was implemented. We could not identify the definitive hosts, but we suspect that infection might either be due to the importing of infected dogs to the farm or due to the recent localization of wild carnivores in the area; namely wolves, raccoon dogs and jackals. The widespread infection of *T. ovis* in this farm is of concern to veterinary authority and to meat producers; the meat is condemned due to aesthetic reasons which causing economic losses to the farmers and to stop the possible spread of the infection to susceptible wildlife definitive hosts in the area.