



Ss. Cyril and Methodius University in Skopje
FACULTY OF VETERINARY MEDICINE – SKOPJE
Laboratory for parasitology and parasitic diseases



18th Workshop of the National Reference Laboratories for Parasites
16-17 November 2023

Trichinellosis in N.Macedonia

Human cases of *Trichinella*

Year with positive cases	1985	1992	1996	2001	2008
No. of positive human cases	3	6	2	1	1

There is no presence of *Trichinella* in domestic pigs intended for human consumption.

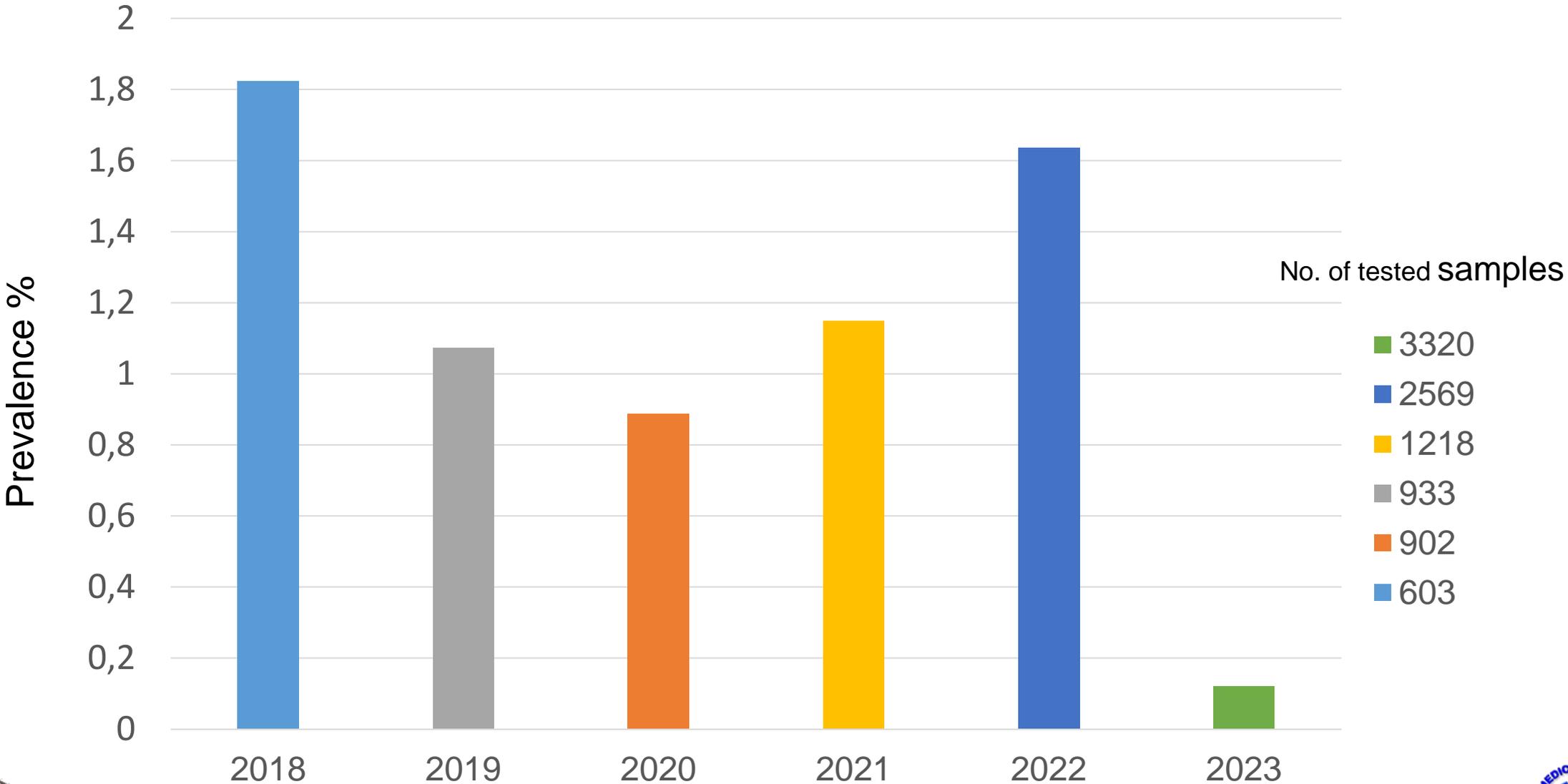
T.britovi – the only identified species in wild boars

4 accredited laboratories, 3 in the slaughter houses and 1 private laboratory out of the slaughter house.

Accredited method: SOP 619 Detection of *Trichinella* larvea in meat with magnetic stirrer method for pooled sample digestion (MKC EN ISO 18743:2015)



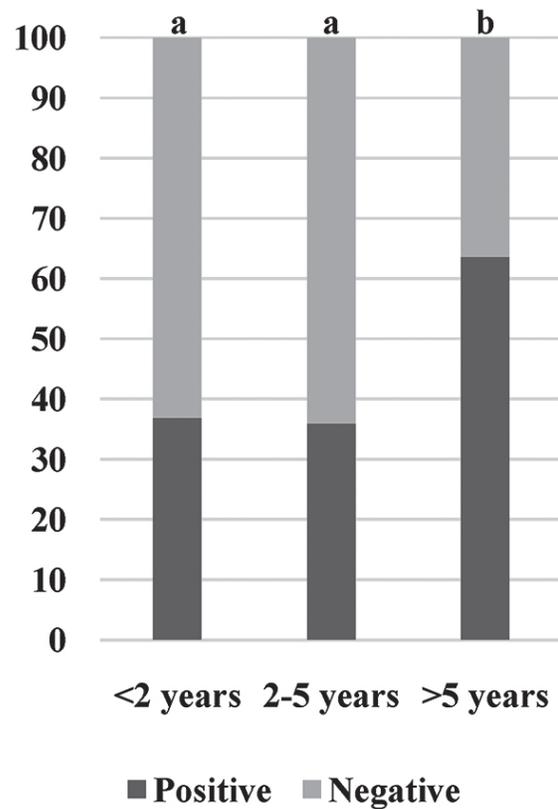
Prevalence of *Trichinella* spp. infection in wild boars (2018-2023)



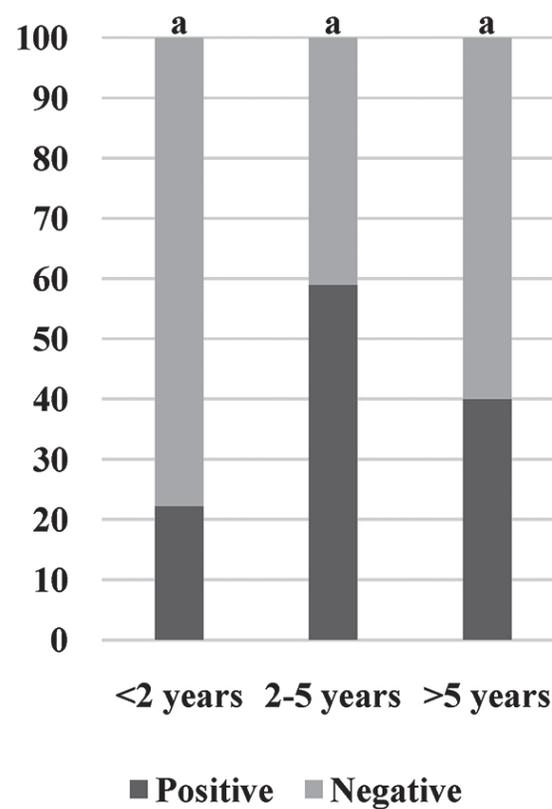
Prevalence of cystic echinococcosis in slaughtered cattle and sheep

Overall prevalence of *E. granulosus s.l.* at slaughterhouse is **60% in cattle and sheep**

A



B



Ratios of positive/negative specimens (liver and lungs) for echinococcosis by age groups in cattle (A) and sheep (B). Significantly different values between the age groups are marked with different letters (a, b)



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sciendo

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Original Scientific Article

CYSTIC ECHINOCOCCOSIS IN SLAUGHTERED CATTLE AND SHEEP FROM NORTH MACEDONIA

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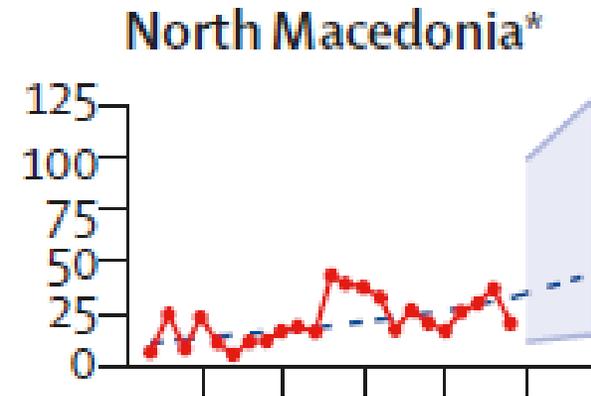
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Human cystic echinococcosis in N.Macedonia

HIGLY ENDEMIC

- **538 cases** (1997-2021)
- **1,652 hospitalizations** (2008-2021)
- **22 deaths** (CFR: 5.3%)
- Incidence **1.08/100k** (1997-2020)
- Incidence **1.41/100k** (2017-19)



THE LANCET Infectious Diseases

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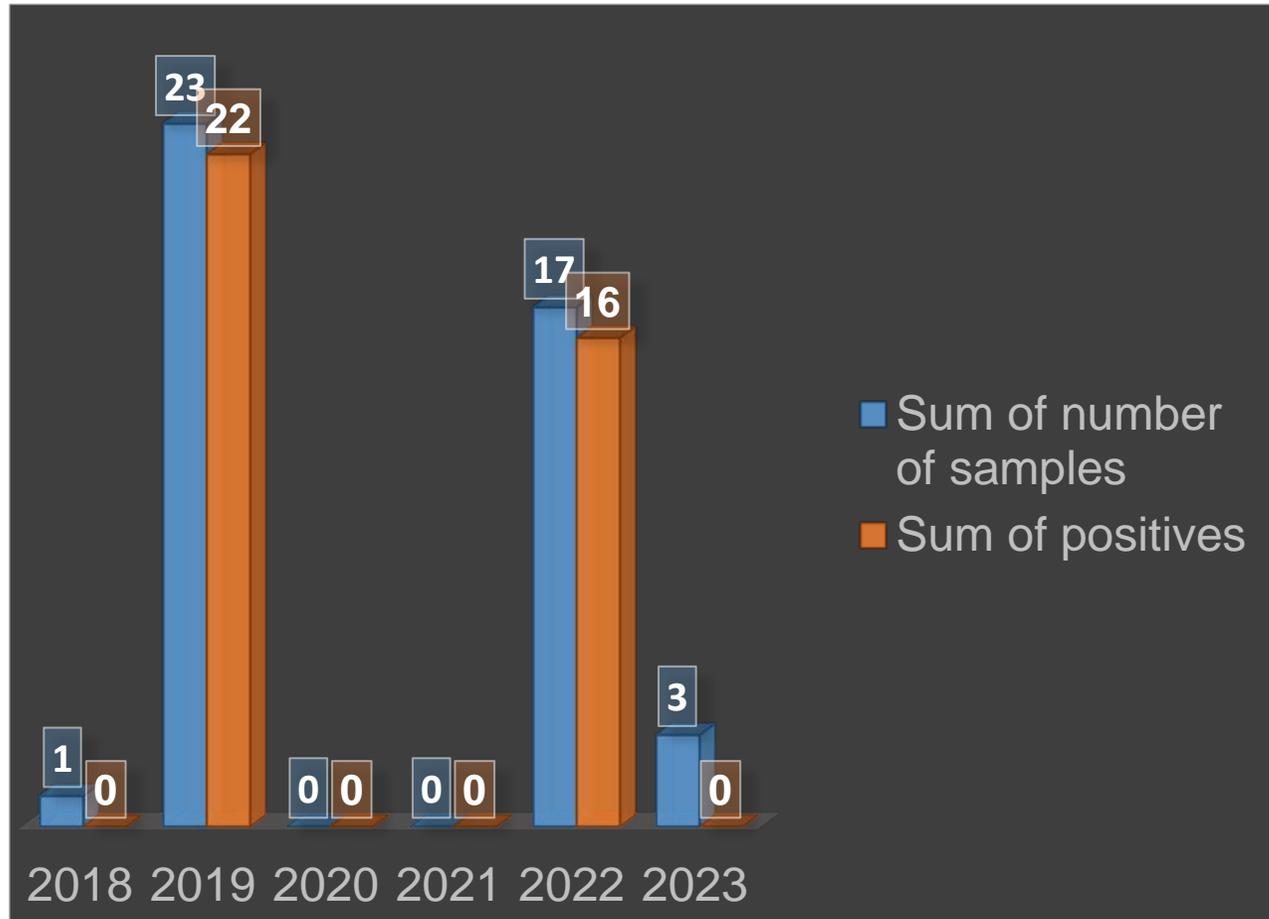


Review

Unveiling the incidences and trends of the neglected zoonosis cystic echinococcosis in Europe: a systematic review from the MEmE project



Anisakis



Samples provide by the official veterinary inspector - Imported frozen fish (hake)

Accredited method: SOP 872 ver. 1 Microbiology of the food chain - Methods for the detection of Anisakidae L3 larvae in fish and fishery products - Part 2: Artificial digestion method (MKC EN ISO 23036-2:2021)



First report of bovine coenurosis in North Macedonia



Coenurus cyst (arrow) in the central part of the left cerebral hemisphere



Clusters of protoscoleces (arrows) attached to the thin membrane of the cyst



Thank you for your attention



Dear parasites!

I hope we will
evolve faster
than the
parasitology
science

