Food safety issues on increasing prevalence of Alaria alata

Plan

5 min Introduction (Heidi L Enemark)
5 min A. alata in Denmark (Heidi L Enemark)
5 min A. alata in France (Isabelle Vallee)
5 min A. alata in the Netherlands (Frits Franssen)
5 min A. alata in Germany (Anne Mayer-Scholl)
5 min A. alata in Hungary (Tamás Sréter)
10 min Discussion

Public health risks related to consumption of A. alata infected meat?
A. alata an increasing problem?

- Increasing prevalence?
  True increase or due to more sensitive method and increased awareness?
- Changing eating habits (e.g., barbecue, locally produced foods)
- Changing farm management (organic production)
- Climate changes

- Zoonotic potential?
  Known for decades – why are human cases not described in Europe?

Prevention & control

- Survival during food processing?
- Need for routine monitoring at abattoirs?
- Need for regulations on processing of A. alata infected meat?
Alariosis in humans

A. alata:
- Fever
- Inflammation
- Edema
- Respiratory symptoms

Alaria spp.:
- Retinitis & neuroretinitis
- Respiratory symptoms
- Anaphylactic shock & mortality

Prokopowicz et al., 2005

A. alata in Denmark

Prevalence:
- Fox: 34.4% (N = 384)
- Raccoon dog: 69.7% (N = 99)

Fernandes et al., 1976; Freeman et al., 1976; McDonald et al., 1994

Surveillance of A. alata in farmed wild boars in Denmark 2014/15 – preliminary results

Alaria alata
- Trichinella
- Gastrointestinal nematodes
- Cryptosporidium & Giardia spp.
- Salmonella
- Brucella suis
- MRSA
- Aujeszky
- Classical swine fever
- African swine fever

Prevalence: >50%

>150 wild boars hunted each year

Hunters
- Small private slaughterhouses
- Gourmet restaurants
- Smoked
- Cured
- Sausages

18 wild boars condemned so far

Screening of Danish domestic animals and wildlife for Alaria alata: positive finds of mesocercariae in feral cats and badgers

N Takeuchi-Storm, MNS Al-Sabi, SM Thamsborg, HL Enemark

EID submitted

Pigs: 406
Farmed wild boars: 130
Badgers: 9 (6 positive)
Cats (feral & domestic): 99 (3 positive all pregnant or lactating)

Convenience samples, left over samples from Trichinella testing, AMT
Risk for organic pigs?