Trichinellosis in pigs: Poland’s perspective – preventing human infection through on-farm measures

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Trichinella - law

- Trichinella is registered according to Polish law
- No eradication
- Every carcass (pig and wild boar) is tested for Trichinella (digestion method) if intended for trade
- Trichinoscopic method for pigs or wild boars intended for own use
Pigs production in Poland

- Production is scattered – from large farms to small farms rearing a few pigs
- Use of farmers’ own feeding stuffs
- Pigs slaughtered in slaughterhouses or on farm for farmers’ own use
On-farm measures

- Protection against access of other animals
- Cleaning and disinfection
- Minimizing feed and water contamination
- Ban for feeding pigs with waste (kitchen, slaughter or wild life)
Pigs trichinellosis in Poland

Trichinella positive pigs 2003-2012
Pigs trichinellosis in Poland

- In 2010 - 12 pigs positive for Trichinella (19,730,521 tested)
- In 2011 - 8 pigs positive for Trichinella (20,394,971 tested)
- In 2012 - 14 pigs positive for Trichinella (19,917,895 tested)
- In 2013 - 37 pigs positive for Trichinella (24 pigs from PL)
Trichinellosis in Humans

- In 2010 – 51 Human cases
- In 2011 – 23 Human cases
- In 2012 – 1 Human case
Cooperation with the Ministry of Health

- All cases reported via RASFF System
Outcome of investigations

- Cases in humans due to consumption of wild boar meat (raw sausages) from own use (distribution through family and friends) – f.e. Epidemiological Review, Clinical Problems of Infectious Diseases and Epidemiology, National Institute of Public Health, 2013, Vol 67, No2
- Or illegal hunting of wild boars
- Or illegal production
Trichinellosis in wild boars

![Graph showing the number of Trichinella positive wild boars from 2000 to 2011. The number of positive cases increases year by year.](chart)
Trichinellosis in wild boars

- In 2010 - 565 wild boars positive for Trichinella (87 614 tested)
- In 2011 - 447 wild boars positive for Trichinella (86 940 tested)
- In 2012 - 442 wild boars positive for Trichinella (108 605 tested)
- In 2013 no data on Trichinella in wild boars
Trichinellosis in wild boars

- In June 2013 the National Veterinary Research Institute informed about the first case of *Trichinella pseudospiralis* larva in a wild boar, which is non-capsuled – it is almost impossible to find such a larva in trichinoscopic
Trichinellosis in wild boars

- It might be endemic in some areas due to the fact that wild boars’ viscera are not buried or are buried too shallowly.
What next?

- Change law - obligatory digestive method for every on farm slaughtered pig or hunted wild boar
- Educate farmers on hygienic production of feed
- and consumers on hazard from consuming food from unknown origin
Thank you!