Report of the National Reference Laboratory for Trichinellosis (Germany, 2007)

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reportable disease in humans (Infektionsschutzgesetz)

10 reported human cases in 2007

- 3 persons (BAY) were infected by imported meat (raw sausage from Romania)
- 5 persons (NRW, HH) were involved in the outbreak in north-western Poland (source: raw sausage)
- 2 persons (HE, NS) with unknown origin (probably imported)

raw sausage from Romania

441 larvae per g
Trichinella monitoring in animals (Germany)

➢ obligatory meat inspection for Trichinella larvae in food animals and game (domestic pig, horse, wild boar)

  legislation: Regulation (EC) No. 2075/2005

results meat inspection (Federal Office for Statistics, 2006):
- pigs: 46.66 Mio. ⇒ no findings
- horses: 9,608 ⇒ no findings
- wild boars: 272,258 ⇒ 8 pos. results (0.003%)

➢ sporadic local studies on Trichinella in indicator (reservoir) animals
  - foxes prevalence: 0.01 – 0.2 %
  - raccoon dogs prevalence: > 1 %
4.41 Mio. wild boars examined in Germany over 17 years (average rate: 259,000 per year)  
⇒ 186 pos. results (0.0042%)
NRL activities – laboratory (Germany, 2007)

- laboratory examinations according to accreditation guideline ISO 17025
  - artificial digestion: 137 (animal samples)
  - PCR: 27 (animal isolates)
  - ELISA/WB: 87 (human serum)
    179 (animal serum / meat juice)

- identification of *Trichinella* species from isolated larvae (Germany)
  - wild boar (6): *T. spiralis* (4), *T. pseudospiralis* (2)
  - raccoon dog (1): *T. spiralis*
  - fox (2): *T. spiralis* (1), *T. nativa* (1)
  - domestic pig (1): *T. spiralis*
NRL activities – ring trials (Germany, 2007)

- National ring trial for quality control: *Trichinella* larvae in pork

- Participation of NRL in ring trials for:
  
  **Quality control**
  
  - April 2007: ISS, Italy (CRL ring trial)
  
  - November 2007: AGES, Austria (National ring trial)

  **Validation studies**
  
  - January 2007: BfR, Germany (Med-Vet-Net ring trial)
  
  - February 2007: AFSSA, France (Med-Vet-Net ring trial)
Thank you for your attention

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