

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

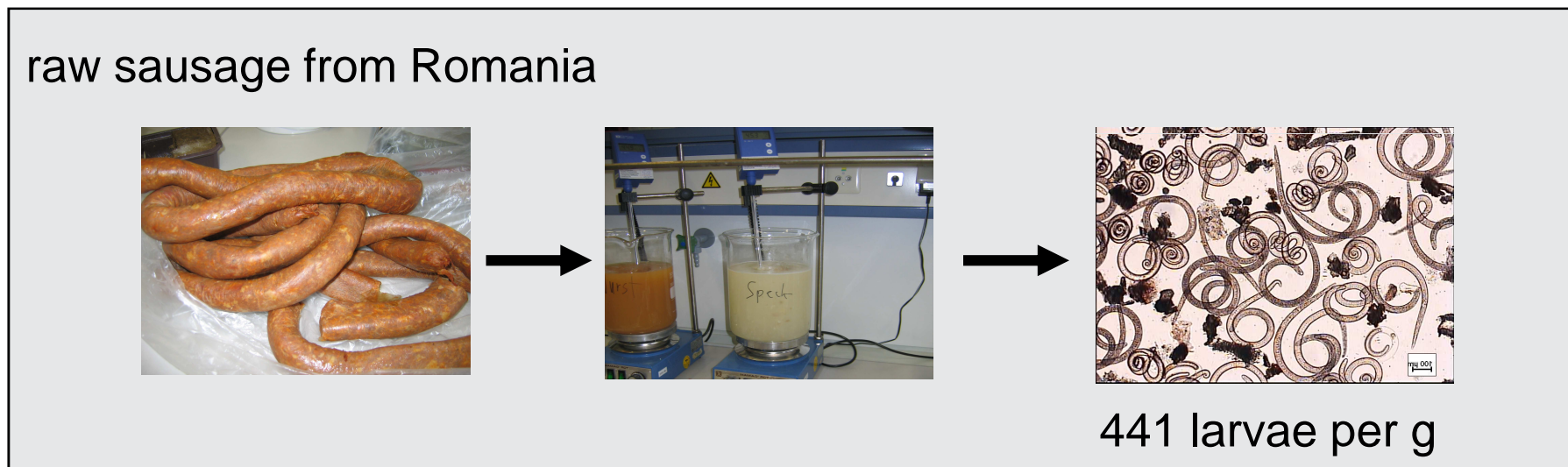
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Human trichinellosis (Germany, 2007)

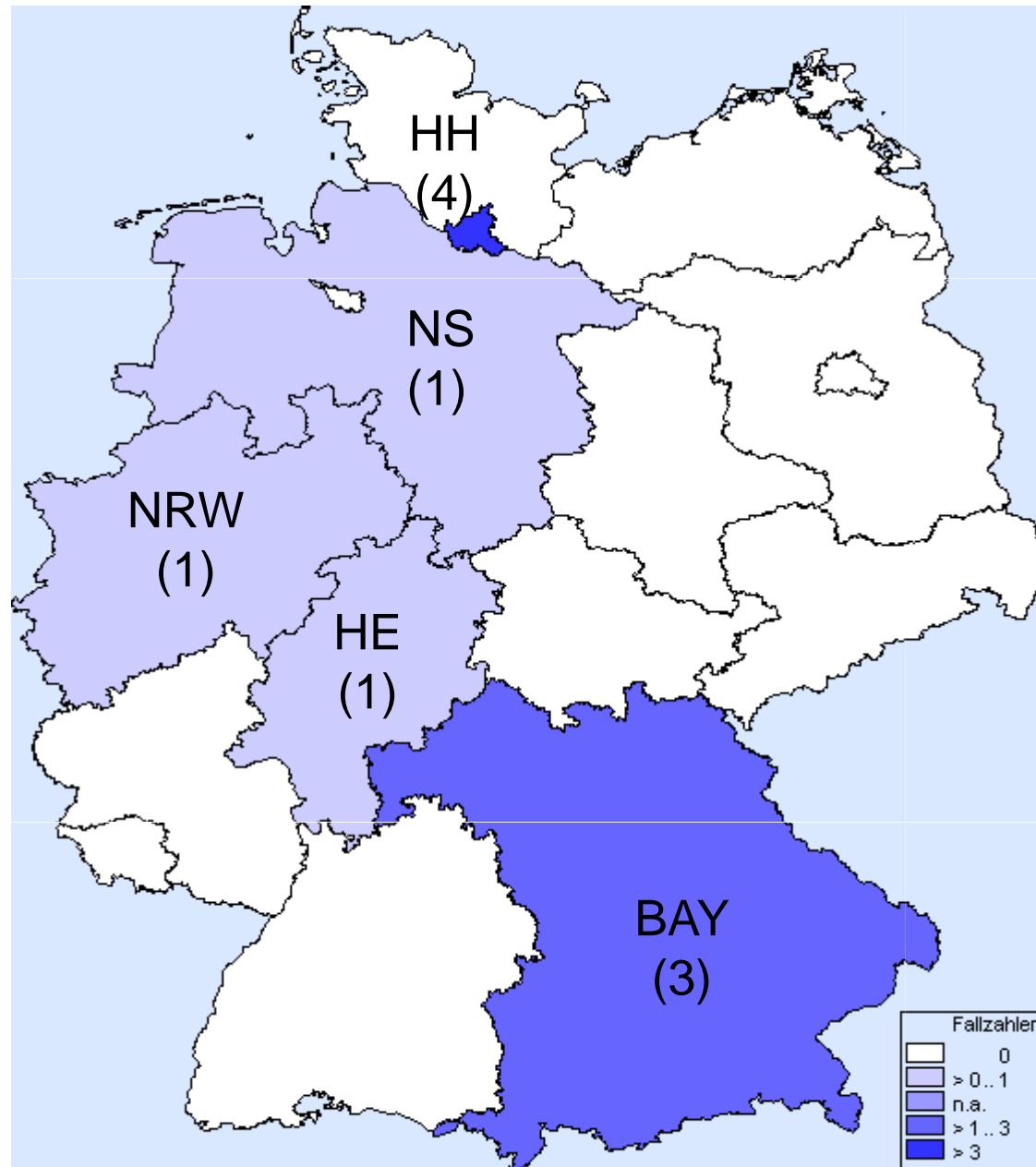
- reportable disease in humans (Infektionsschutzgesetz)

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)



Human trichinellosis (Germany, 2007)



source:

<http://www3.rki.de/survstat>

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%)

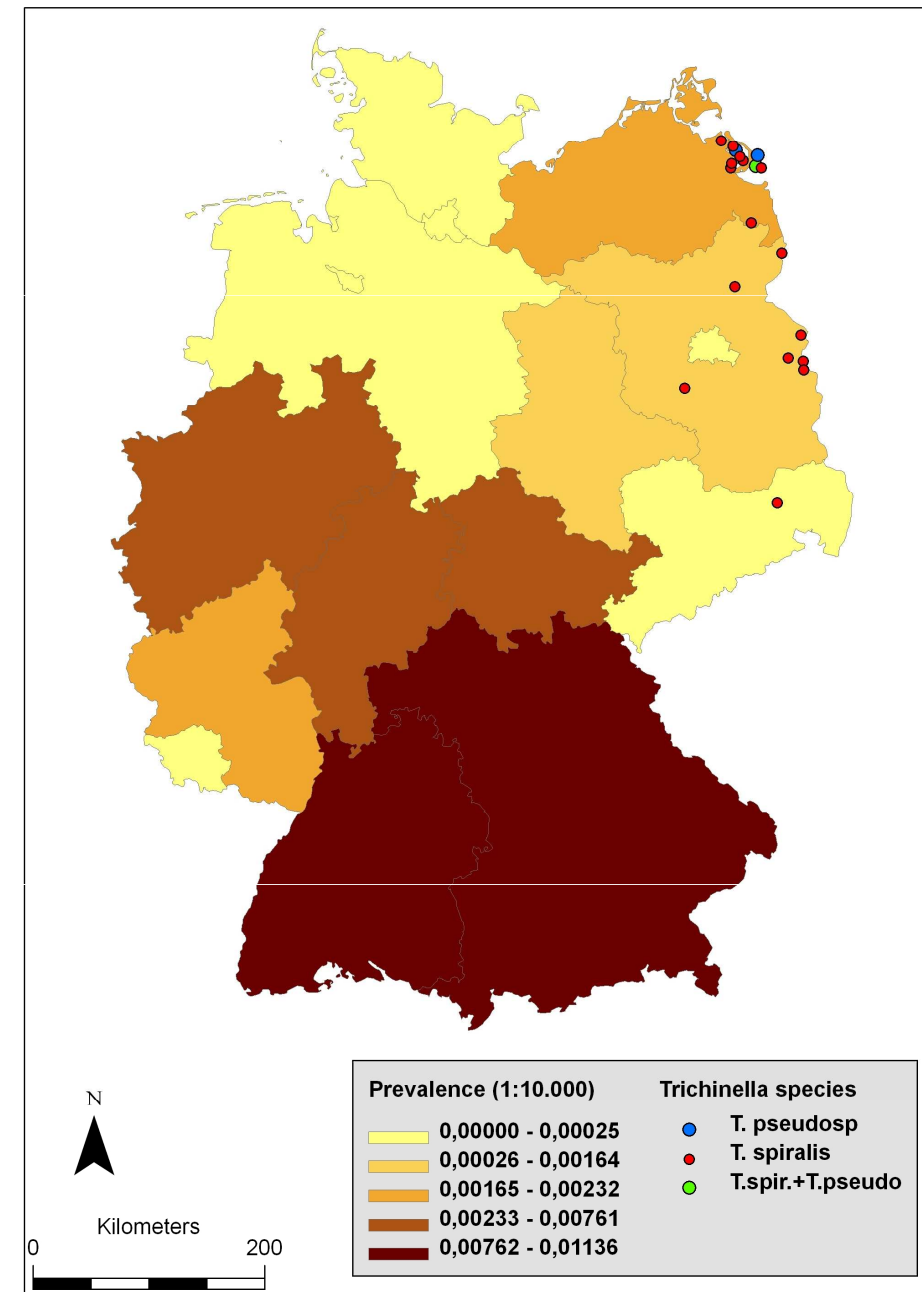
- sporadic local studies on *Trichinella* in indicator (reservoir) animals

- foxes prevalence: 0.01 – 0.2 %
- raccoon dogs prevalence: > 1 %

Trichinella findings in wild boars (1991-2006)

4.41 Mio. wild boars examined in Germany over 17 years
(average rate: 259,000 per year)

⇒ 186 pos. results (0.0042%)



- 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)
 - racoon dog (1): *T. spiralis*
 - fox (2): *T. spiralis* (1), *T. nativa* (1)
 - domestic pig (1): *T. spiralis*

➤ **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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