
Oral Presentation

Pathogenicity and virulence determinants of recent German H7N7 viruses in different poultry species
Outbreak of H7N7 in Emsland in 2015

6.-8.06. Egg-Drop  
11.06. Confirmation of H7N7 AIV

400m distance

16.06. Cleansing and disinfection

23.07. increasing mortality rate

9.06. Notification

Surveillance in restriction zone - all farms negative

26.07. Confirmation of LP and HP H7N7

Harder et al., 2018

https://upload.wikimedia.org/wikipedia/commons/thumb/9/9f/Locator_map_EL_in_Germany.svg/140px-Locator_map_EL_in_Germany.svg.png
Research Aim

Which mutations lead to the shift from a low to a high pathogenic phenotype in the Emsland outbreak?

Reiner Ulrich, ATB 05.17

[Images of chickens with text: Research Aim, Which mutations lead to the shift from a low to a high pathogenic phenotype in the Emsland outbreak? Reiner Ulrich, ATB 05.17]
Impact of the polybasic HACS on virulence in chickens, turkeys and Muscovy ducks

**Intravenous**

- LP Chicken: 0.1
- LP Turkey: 0.1
- LP Poly Chicken: 3.0
- LP Poly Turkey: 1.9
- LP Poly Ducks: 0.2
- HP Chicken: 3.0
- HP Turkey: 2.8
- HP Ducks: 0.4

**Oculonasal**

- LP Chicken: 0.0
- LP Turkey: 0.0
- LP Poly Chicken: 1.8
- LP Poly Turkey: 1.1
- LP Poly Ducks: 0.0
- HP Chicken: 2.2
- HP Turkey: 2.2
- HP Ducks: 0.1