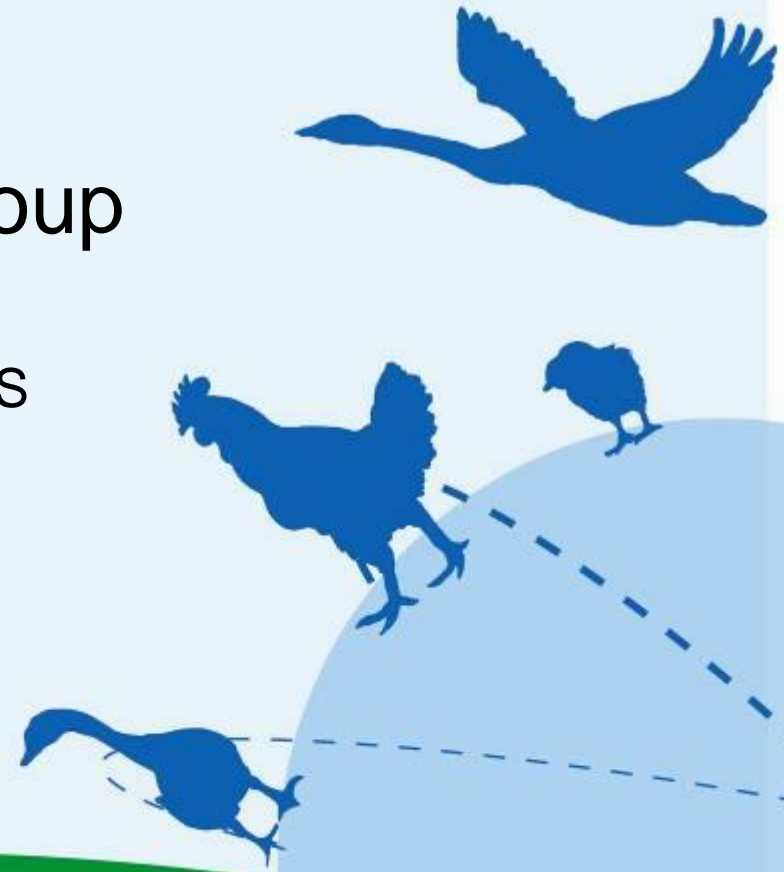




OFFLU meeting
18 April 2018
Brighton, UK

Activities of Equine Group

Ann Cullinane MVB PhD MRCVS



Activities of Equine Group 2015-2018

- Expert Surveillance Panel met annually at OIE
- Collaborative project with European Directorate for the Quality of Medicines and HealthCare completed
- Research projects funded by OIE in public private partnership with FEI and IFHA completed
- Assistance provided to International Equestrian Events

Surveillance, Diagnostics and Vaccinology



Equine Influenza Expert Surveillance Panel

OIE and WHO Experts

OIE Experts

Tom Chambers (Gluck, Kentucky)

Debra Elton (AHT, Newmarket)

Walid Azab (University of Berlin)

Ann Cullinane (IEC, Ireland)

WHO Experts

Nicola Lewis (Cambridge)

John McCauley (Crick Institute)

Invited Participants

Adam Rash (UK)

Maria Barrandeguy (Argentina)

Cecilia Olguin Perglione (Argentina)

Louise Berndtsson (Sweden)

Stéphane Pronost (France)

Romain Paillot (France)

Nitin Virmani (India)

Xiaojun Wang (China)

Takashi Yamanaka (Japan)

Manabu Nemoto (Japan)

Rozanah Asmah Samad (Malaysia)

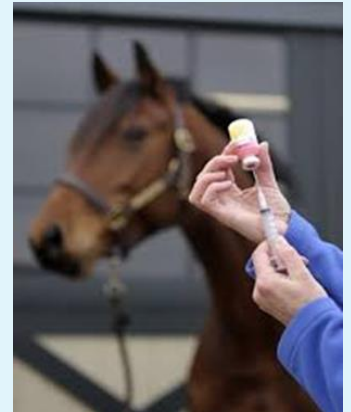
Expert Surveillance Panel

- 2015 - 2018 H3N8 Florida Sublineage
Endemic in Europe and North America
Annually: Europe - Clade 2 predominates; USA - Clade 1
- 2015 – Increased influenza activity in USA
First reported outbreak in Malaysia (Clade 1)
China – Clade 2
- 2016 – Less activity
- 2017/18 UK – re-emergence of Clade 1
China - Clade 2
Japan – Imports from Canada – Clade 1
Israel – Un-typed?
South America – widespread outbreaks ongoing



Equine Surveillance Panel

- Recommendations remained the same since 2010
 - No requirement for H7N7 or European H3N8
 - Include Clade 1 and Clade 2 Florida Sublineage
 - Updated vaccines are available internationally
- OIE/EDQM standard reference serum for Clade 2 prepared and the Single Radial Haemolysis level harmonised internationally
- Publication of collaborative research- OIE Twinning
- Onsite PCR validated for 2016 Olympics
- Surveillance for EDFZ for Asian Equestrian Games 2017



OIE, FEI and IFHA partnership

Apply minimum health measures to the international movement of High Health High Performance horses consistent with safety

- Equine influenza is one of six infectious diseases necessitating regulation – mandatory vaccination
- Testing – discretionary



World
Organisation
for Animal
Health

OIE/FEI/IFHA Research Projects

To provide evidence based harmonisation of the FEI and IFHA vaccination recommendations prior to shipment guided by OIE standards

Clinical trials carried out on three continents in racehorses and competition horses and including national and multinational vaccines



OIE/FEI/IFHA Research Projects

To validate equine influenza real time RT-PCR assay(s) as fit for the purpose of certifying freedom from infection in individual animals for trade or movement

Collaboration across three continents involving all OIE reference laboratories, the testing of >1200 samples from positive and negative reference populations, latent class analysis and experimental infection of horses to generate reference material for international distribution.

Accepted by Biological Standard Commission 2018.

Thank You

