INTERNATIONAL THOROUGHBRED BREEDERS' FEDERATION
INTERNATIONAL COLLATING CENTRE

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Please note that the Australian reports are being reported one quarter in arrears behind the quarter being reported. However, there is a slight delay with THIRD QUARTER Report of 2016 for Australia, which will be circulated as soon as received. FOURTH QUARTER reports for 2016 for other countries are provided after this in the usual way.

REPORT FOR THIRD QUARTER 2016 FROM AUSTRALIA

The report for THIRD quarter from Australia will follow at a later date.

REPORT FOR THE FOURTH QUARTER 2016

ARGENTINA
Confirmed nothing to report.

AUSTRALIA
To follow.

CANADA
Equine Infectious Anaemia (EIA)
Between 1st October and 31st December 2016, there has been one EIA positive equine identified on a premises in the province of Saskatchewan. This was a newly affected premises and it was reported that the horse had been tested because of previous contact with an infected animal. Diagnosis was confirmed agar gel immunodiffusion (AGID) test (Coggins),
CHILE
Regret no report received.

DENMARK
Regret no report received.

FRANCE (Information supplied via the RESPE, the French network for epideimosurveillance of equine diseases)

**Equine Herpes Virus-1 (EHV-1) Abortion**
On the 28th and 30th December 2016, two cases of EHV-1 abortion were confirmed in Orne and were epidemiologically linked. Positive diagnoses were confirmed by PCR on a fetal liver sample.

**Equine Herpes Virus-1 (EHV-1) Neurological Disease**
On the 21st October 2016, one case of EHV-1 neurological disease was confirmed in Pas-de-Calais. The affected animal was an eight-year-old male. The positive diagnosis was confirmed by PCR.

On the 23rd November 2016, one outbreak involving nine horses out of 60 in a sport facility was confirmed in Meurthe-et-Moselle. The affected horses showed neurological signs including ataxia, pyrexia and lethargy. Positive diagnoses were made by PCR on nasopharyngeal swabs. This outbreak raised awareness in the area about EHV-1 infection, although no linked outbreaks were confirmed. All appropriate prevention measures were organised as soon as the cases were suspected.

**Equine Herpes Virus-1 (EHV-1) Respiratory Disease**
On the 19th October 2016, one case of EHV-1 respiratory disease was confirmed in Manche. The affected horse was a Thoroughbred that eventually died from the infection. The positive diagnosis was confirmed by PCR.

On the 28th October 2016, one case of EHV-1 respiratory disease was confirmed in Seine-et-Marne. The positive diagnosis was made by PCR.

On the 18th November 2016, one case of EHV-1 infection was confirmed in Orne. The positive diagnosis was confirmed by PCR on nasopharyngeal swab.

On the 2nd December 2016, an outbreak of EHV-1 respiratory disease was confirmed in Moselle with two of 60 horses affected. The affected horses showed clinical signs that included, lethargy, inappetance, pyrexia and nasal discharge. Positive diagnoses were made by PCR on nasopharyngeal swabs.

**Equine Herpes Virus-4 (EHV-4) Respiratory Disease**
Fifteen outbreaks of EHV-4 respiratory disease were confirmed (eleven outbreaks with single cases, three outbreaks with two cases and one outbreak with three cases), including one on a French Saddlebred. These outbreaks occurred in Calvados, Dordogne, Gard, Maine-et-Loire, Manche, Moselle, Nièvre, Oise, Orne and Vendée. Affected horses showed clinical signs that included, pyrexia and nasal discharge. For 14 outbreaks, positive diagnoses were confirmed on nasal samples using PCR. One outbreak was confirmed by PCR on a tracheal wash sample.

**Piroplasmosis**
Remains endemic in France.
Strangles (Streptococcus equi)
Twelve outbreaks were reported during fourth quarter 2016 (seven outbreaks single cases, one outbreak with two cases, one outbreak with three cases and one outbreak with ten cases). These outbreaks occurred in Aisne, Alpes-Maritimes, Aveyron, Bouches-du-Rhône, Creuse, Gironde, Hérault, Nord, Pas-de-Calais, Puy-de-Dôme, Yvelines and Tarn. Affected horses showed clinical signs that included nasal discharge, pyrexia, lymphadenopathy, coughing, dysphagia, abscess and lethargy. Positive diagnoses were made by PCR on nasopharyngeal swab, pus or purulent nasal discharge samples.

GERMANY
Confirmed nothing to report.

Additional results received from Labor Dr Boese GmBh – an HBLB CEMO registered laboratory

Equine Herpes Virus-1 (EHV-1) Abortion
EHV-1 was confirmed as the cause of abortion on one premises during the fourth quarter of 2016. The positive diagnosis was confirmed by PCR on fetal lung puncture aspirate and endometrial swab.

Strangles (Streptococcus equi)
Strangles was confirmed in five horses on five separate premises during the fourth quarter of 2016. The affected animals showed clinical signs of pyrexia, nasal discharge and lymphadenopathy with diagnoses made by bacterial culture and PCR on nasopharyngeal swabs and on abscess material from submandibular lymph nodes.

HONG KONG
Confirmed nothing to report.

IRELAND (Republic of)
Equine Herpes Virus-1 (EHV-1)
Two cases of EHV-1 were reported during the fourth quarter of 2016 in December in County Kildare. No further details were available.

Strangles (Streptococcus equi)
Seven cases of strangles were confirmed by culture during the fourth quarter of 2016 in the provinces of Leinster (five cases) and Munster (two cases). A further 17 cases were confirmed by PCR by the Department of Agriculture (12 cases) and in the province of Leinster (five cases).

ITALY
Regret no report received.

JAPAN
Equine Herpes Virus-1 (EHV-1) Abortion
EHV-1 abortion was diagnosed in seven horses on seven separate premises between 31st October 2016 and 30th December 2016. Both Thoroughbreds and non-Thoroughbreds were affected with two of the animals being vaccinated. Positive diagnoses were made based on serology by Hokkaido Hidaka Livestock Hygiene Service Center, Hokkaido Iburi Livestock Hygiene Service Center and Hokkaido Kusiro Livestock Hygiene Service Centre.
Getah Virus
On 5th October 2016, Getah Virus was confirmed in a vaccinated two-year-old Thoroughbred. Clinical signs of pyrexia were mild and the horse made a full recovery. Positive diagnosis was made by RT-PCR with the confirming laboratory being the Equine Research Institute of the Japan Racing Association.

MALAYSIA
Confirmed nothing to report.

NEW ZEALAND
Confirmed nothing to report.

SINGAPORE
Confirmed nothing to report.

SOUTH AFRICA
African Horse Sickness (AHS)
Isolated cases of AHS were reported from Gauteng Province in October 2016 and from Gauteng Province and North West Province in December 2016, both of which are in the AHS endemic area of South Africa.

Equine Encephalosis Virus
One EEV case was reported in the Knysna area of the Western Cape Province in October 2016.

SOUTH KOREA
A serological survey was carried out during 2016 to investigate the serological evidence for the presence of following equine diseases in South Korea: Equine Viral Arteritis (EVA), Equine Infectious Anemia (EIA), African Horse Sickness (AHS), Vesicular Stomatitis (VS), West Nile Fever (WNF) and Japanese Encephalitis.

Serum samples from 1,380 horses including Thoroughbred stallions, broodmares, racehorses and ponies and riding horses, were investigated in this study. Sample collections were performed by the Korean Racing Authority (KRA) and tests were conducted by the Animal & Plant Quarantine Agency (QIA) of South Korea. KRA also conducted tests for Surra with the samples. The results are as follows:

African Horse Sickness (AHS)
All samples tested negative using commercially available ELISA test kits.

Equine Viral Arteritis (EVA)
Seven samples (0.5% stallions) tested positive using VN test and were attributed to previous vaccination.

Equine Infectious Anemia (EIA)
All samples tested Negative using AGID (Coggins) test.

Japanese Encephalitis
A total of 1139 samples (82.5%) tested positive using VN test due to vaccination.
Surra
All samples tested negative using commercially available Card Agglutination Test for annual Trypanosomiasis (CATT/T. evansi kits).

Vesicular Stomatitis (VS)
All samples tested negative using commercially available ELISA test kits.

West Nile Fever (WNF)
All samples tested negative using commercially available ELISA test kits.

SPAIN
West Nile Virus (WNV)
During the fourth quarter nine cases of WNV were confirmed with the last case reported on 16th December 2016. No further information is currently available.

SWEDEN
Regret no report received.

SWITZERLAND
Equine Herpes Virus-1 (EHV-1) Neurological Disease
EHV-1 was confirmed in one horse on 24th October 2016. No further details were available.

Equine Herpes Virus-4 (EHV-4)
EHV-4 was confirmed on one premises affecting four horses during fourth quarter 2016. Diagnoses were confirmed by PCR.

Erlighiosis
An outbreak of Erlighiosis was reported during the fourth quarter of 2016. Diagnoses were confirmed by PCR. No further details were available.

Piroplasmosis
Piroplasmosis was confirmed in one horse during October 2016. Diagnosis was confirmed by PCR. No further details were available.

Strangles (Streptococcus equi)
Two outbreaks of strangles were confirmed during the fourth quarter 2016, two and three horses, respectively on two separate premises. Diagnoses were confirmed by agent isolation. No further details were available.

TURKEY
Regret no report received.

UNITED ARAB EMIRATES (UAE)
Regret no report received.
UNITED KINGDOM
Please note that all UK cases and outbreaks have already been notified via interim reports during the fourth quarter and since. Strangles (*Streptococcus equi*) remains endemic in UK horses.

UNITED STATES OF AMERICA

**Clostridial Enteritis**
Limited outbreaks of *Clostridium perfringens* Type A β-2 toxin were recorded in Kentucky.

**Equine Coital Exanthema**
One case of venereal infection with Equine Herpes Virus-3 (EHV-3) was confirmed in Kentucky.

**Eastern Equine Encephalomyelitis (EEE)**
Fifteen cases of EEE were recorded during the final three months of 2016. The disease was confirmed in five states of which the majority (nine cases) were in Wisconsin.

**Equine Herpes Virus Disease Syndromes**
Evidence of respiratory infection related to equine EHV-1 and EHV-4 was widespread in various states with EHV-4 primarily implicated in disease in young foals. California and Florida recorded outbreaks of EHV-1 neurological disease. There were two disease events in California, the first in an equestrian centre involving six horses with clinical signs of neurological disease one of which was euthanased, the second on a high desert ranch involving two clinical cases, both of which survived. A fatal case of EHV-1 neurological disease was confirmed in a third outbreak on a premises in Florida.

**Equine Herpes Viruses-2 & -5 (EHV-2 & -5)**
EHV-2 and EHV-5 activity was reported in a number of states, sometimes associated with clinical evidence of respiratory infection.

**Equine Infectious Anemia (EIA)**
An isolated case of EIA was diagnosed in a horse in Utah.

**Equine Influenza**
Equine influenza is endemic in the USA. Disease outbreaks were confirmed in several states during the fourth quarter of 2016.

**Proliferative Enteropathy**
A number of cases of *Lawsonia intracellularis* infection were diagnosed in Kentucky and Michigan.

**Rhodococcus equi**
*Rhodococcus equi* infection is prevalent in many states in the USA. A limited number were reported during the period under review.

**Salmonellosis**
Outbreaks and individual cases of salmonellosis were confirmed in a couple of states. *Salmonella* Group C1 spp was implicated in all instances.

**Strangles (Streptococcus equi)**
Strangles is endemic in the USA. Multiple outbreaks were recorded in a wide range of states during the fourth quarter of 2016.
West Nile Virus Encephalitis (WNVE)
Twenty cases of WNVE were reported in six states with 11 of those in Oklahoma and Florida confirmed a case in a donkey. The majority of cases involved horses without a prior history of vaccination against the disease.

VENEZUELA
Regret no report received.

REGARDS
INTERNATIONAL COLLATING CENTRE (Total pages = 7)