



Third Quarter Summary Report: July - September 2020

This article provides a summary of international disease outbreaks during 3Q 2020. It should also be noted that additional summary reports were kindly received for the USA that included further information on disease occurrence for that country but which had not been reported in previous real-time ICC reports. This additional information is identified by * in the tables and text where relevant throughout this report. The information from the ICC interim (real-time) reports are available on the interactive ICC website, which can be found at <http://jdata.co.za/iccviewer/>.

The data presented in this report *must be interpreted with caution*, as there is likely to be some bias in the way that samples are submitted for laboratory testing and subsequently reported. Consequently these data do not necessarily reflect true infectious disease frequency within the international equine population. A country with no reported outbreaks of a disease does not necessarily equate to the disease not being present in that country. Each table below summarises the number of disease outbreaks reported by a country. Each reported outbreak may involve more than one animal.

Reproductive Conditions

Country	CEM	EHV-1	EHV-3	Leptospirosis
Argentina	-	-	2	-
Belgium	-	-	-	2
Denmark	1	-	-	-
Japan	-	1	-	-
USA	-	-	*	-

*relates to additional summary information reported at the end of the quarter, but which was not reported via ICC interim reports

Contagious Equine Metritis (CEM)

Denmark

 An outbreak in three stallions was confirmed. No clinical signs were observed.

Equine Herpes Virus-1 (EHV-1) Abortion

Japan

 A single case of EHV-1 abortion in an unvaccinated Thoroughbred was confirmed.

Equine Herpes Virus-3 (EHV-3)

Argentina

 Two outbreaks confirmed of EHV-3 affecting 29 animals including breeding stock and Thoroughbreds on two separate premises.

USA



*One case of EHV-3 infection noted in Kentucky was reported at the end of the quarter.

Leptospiral Abortion

Belgium

 Two outbreaks of leptospiral abortion with a single case in each were confirmed. One case aborted at 10 months.

Respiratory Conditions

Country	EHV-1	EHV-2	EHV-4	Adenovirus	Influenza	Strangles
Belgium	-	1	-	-	1	2
Canada	-	-	-	-	-	1
France	1	-	20	-	1	9
Germany	-	-	-	-	4	-
Ireland	-	-	-	1	-	-
Japan	-	-	1	-	-	-
Italy	-	-	-	-	1	-
Netherlands	-	-	5	-	-	12
S. Africa	1	-	-	-	-	-
Sweden	-	-	-	-	1	-
Switzerland	-	-	-	-	-	8
UK	1	-	-	-	-	-
USA	-	*	1	-	6*	8*

*relates to additional summary information reported at the end of the quarter, but which was not reported via ICC interim reports

Equine Herpes Virus-1 (EHV-1) Respiratory Infection

France

 One case was confirmed in a yearling Thoroughbred filly.

South Africa

 One case was confirmed in Gauteng province.

UK

 One case was confirmed on a premises in Devon.

Equine Herpes Virus-2 (EHV-2) Respiratory Infection

Belgium

 One case confirmed in a two-month-old foal on a premises in West Flanders.

USA

 *Numerous cases of infection with EHV-2 or EHV-5, some associated with clinical evidence of respiratory disease, were also noted in several states and reported at the end of the quarter.

Equine Herpes Virus-4 (EHV-4) Respiratory Infection

France

 Twenty outbreaks were confirmed, 13 with single cases, one with three cases, five with two cases and one with cases unknown. Clinical signs included nasal discharge, cough and decreased performance. Positive diagnoses were in the majority confirmed by PCR on nasopharyngeal swabs.

Japan



An outbreak of EHV-4 respiratory disease was confirmed in eight unvaccinated Thoroughbreds.

Netherlands



Five outbreaks were confirmed, four with single cases and one with seven four/five-month-old foals affected. Clinical signs included nasal discharge, cough, pyrexia and lymphadenopathy.

USA



A single case in a vaccinated three-year-old on a premises in Georgia was confirmed. Clinical signs included anorexia and pyrexia.

Adenovirus

Ireland



A case was reported in a foal on a premises in County Tipperary. Positive diagnosis was confirmed by PCR on tissue.

Equine Influenza (EI)

Belgium



One case on a premises in Hainaut. Clinical signs included pyrexia, nasal discharge and cough.

France



One case reported in a five-year-old Hanoverian stallion on a premises in Loiret. Clinical signs included nasal discharge, pyrexia, cough and depression.

Germany



Four outbreaks were reported; two with single cases, with one of these being in a seven-year-old vaccinated mare recently imported from Spain. One outbreak involved two Shetland ponies and one involved three animals. Clinical signs included pyrexia and cough.

Italy



A single case was reported. It was noted that control measures were in place.

Sweden



Three individual cases on different premises, all in Shetland ponies, were reported. All were traced back to the same consignment of horses imported from Holland. Clinical signs included cough, pyrexia and mucopurulent nasal discharge. Positive diagnoses were confirmed by PCR on nasal swabs.

USA



Six outbreaks were confirmed, four involved single cases, one involved three cases and one involved 11 cases. *EI is endemic in the USA and at least three other outbreaks were also noted and reported at the end of the quarter. With the exception of a group of five donkeys, occurrence of the disease was confined to horses.

*Rhodococcus equi**

USA



*Six cases of *Rhodococcus equi* infection were also noted, all in Kentucky and reported at the end of the quarter.

Strangles

Belgium



Two outbreaks were confirmed involving single cases, one with a co-infection of EHV-4, EHV-2 and EHV-5.

Canada



One case was confirmed in a five-year-old Standardbred gelding.

France



Nine outbreaks all involving single cases were confirmed. One case was in a four-year-old Thoroughbred. Clinical signs included nasal discharge, abscessation, pyrexia, lymphadenopathy and dysphagia.

Netherlands



Twelve outbreaks confirmed, nine of which involved single cases, one involved two cases, one involved three cases and one involved 15 cases. Positive diagnoses were mainly confirmed by PCR on nasopharyngeal swabs with one confirmed by PCR on guttural pouch lavage.

Switzerland



During the 3Q 2020 Switzerland reported eight separate outbreaks of strangles.

USA



Eight outbreaks, each with a single case were confirmed. Clinical signs included pyrexia, nasal discharge, lethargy and lymphadenopathy. *Strangles is endemic in the USA and a further 33 outbreaks were also noted in 10 states experiencing multiple disease events and reported at the end of the quarter.

Gastrointestinal Diseases

Country	Rotavirus	Salmonellosis
France	19	-
Switzerland	-	2
USA	*	*

*relates to additional summary information reported at the end of the quarter, but which was not reported via ICC interim reports

Rotavirus

France



Nineteen outbreaks were confirmed, with 15 involving one case, three involving two cases and one involving three cases. Positive diagnoses were confirmed by PCR on fecal matter or by PCR on rectal swabs.

USA



*A total of 17 cases of rotavirus infection were also noted and reported at the end of the quarter. The majority in 60-90 day-old foals in Kentucky. Of these, four were of the G3 genotype, seven of the G14 genotype and six were positive for both genotypes. The majority of cases were recorded in July.

Proliferative Enteropathy*

USA



*One case of *Lawsonia intracellularis* proliferative enteropathy was also noted in a foal in Kentucky and reported at the end of the quarter.

Salmonellosis

Switzerland



Two outbreaks of salmonellosis were reported.

USA



*Ten cases of salmonellosis were also noted, all in Kentucky and reported at the end of the quarter. Two involved *Salmonella* group C1, five *Salmonella* Group D1 and three were from infection with untyped *Salmonella*.

Neurological Conditions

Country	EEE	EHV-1	EHV-4	Rabies	WEE	WNV
Canada	2	-	-	-	-	1
France	-	-	-	-	-	3
Germany	-	-	-	-	-	8
Hungary	-	-	-	-	-	1
Italy	-	-	-	-	-	9
Portugal	-	-	-	-	-	1
Spain	-	-	-	-	-	13
Sweden	-	1	-	-	-	-
Switzerland	-	3	1	-	-	-
USA	97*	2*	-	1	1	24*

*relates to additional summary information reported at the end of the quarter, but which was not reported via ICC interim reports

Eastern Equine Encephalitis (EEE)

Canada



Two outbreaks, each with single cases in unvaccinated animals were confirmed. Clinical signs included ataxia and pyrexia.

USA



Ninety-seven outbreaks were confirmed in states including Florida, South Carolina, Virginia, Wisconsin, New York, Georgia and Michigan. *A further seven outbreaks were noted during this period and reported at the end of the quarter.

Equine Herpes Virus-1 (EHV-1) Neurological Disease

Sweden



One case was reported in a Warmblood recently imported from Belgium.

Switzerland



Three outbreaks were reported. One case was in a 16-year-old French Saddlebred gelding. Clinical signs included depression, pyrexia and urinary incontinence.

USA



Two outbreaks were confirmed in California, each with one case, with one being in a 17-year-old Thoroughbred gelding. Clinical signs included pyrexia, ataxia, muscle

fasciculations and recumbency. *A further four single outbreaks were noted in Louisiana, Maryland, Maine and Pennsylvania and reported at the end of the quarter.

Equine Herpes Virus-4 (EHV-4) Neurological Disease

Switzerland



One outbreak of EHV-4 neurological disease was reported, although no details are available as to how this rare presentation of EHV-4 related disease was confirmed.

Rabies

USA



One case was confirmed in a five-year-old Warmblood gelding on a premises in Maryland, which was euthanased. Two further horses were exposed to the positive animal, which were vaccinated and received a booster vaccination once exposure was known.

Western Equine Encephalitis (WEE)

USA



One case was confirmed in an unvaccinated 30-year-old horse in Utah.

West Nile Virus (WNV)

Canada



One case was confirmed in an unvaccinated animal in Ontario.

France



Three outbreaks with one case in each were confirmed.

Germany



Eight outbreaks were confirmed.

So far this year, the National Reference Laboratory (NRL) for West Nile Virus (WNV) infection has confirmed the presence of WNV in 54 zoo and wild birds and 16 horses. A further 3 horses are currently being tested. Four horses have died as a result of the infection.

Most cases in birds and horses have been confirmed in the already known affected regions of eastern Germany. In addition, for the first time in the Federal State of Thuringia, WNV infection has also been detected in sick and/or dead zoo and wild birds. A new entry in the Federal State of Lower Saxony, district of Helmstedt, was confirmed in a clinically affected horse with neurological signs. Cases of disease in birds in this region are not yet known.

Thus, the virus shows a tendency to spread in 2020 compared to the previous year. Further cases of the disease in birds and horses are expected in the coming weeks. Horse owners should follow the vaccination recommendations of the Standing Veterinary Vaccination Commission (StIKo Vet).

Hungary



One outbreak was confirmed.

Italy



Nine outbreaks were confirmed.

Portugal



One case was confirmed. Control measures are in place.

Spain



Thirteen outbreaks were confirmed. Three with single cases.

USA



Twenty-four outbreaks were confirmed, 23 with single cases and one involving two animals. *Three further outbreaks were also noted and reported at the end of the quarter.

Miscellaneous Conditions

Country	AHS	Anaplasmosis	Borna	EIA	Lepto	Piro	PHF	VS
Canada	-	-	-	-	-	-	4	-
Finland	-	-	-	-	-	1	-	-
France	-	-	-	-	1	-	-	-
Malaysia	1	-	-	-	-	-	-	-
S. Africa	-	-	-	-	-	3	-	-
Switzerland	-	1	2	-	-	1	-	-
USA	-	-	-	3	-	-	6*	36*

*relates to additional summary information reported at the end of the quarter, but which was not reported via ICC interim reports

African Horse Sickness (AHS)

Malaysia



One outbreak was confirmed in five horses on a single-premises. Positive diagnoses were confirmed by RT-PCR. Control measures are in place.

Anaplasmosis

Switzerland



One outbreak of anaplasmosis was reported in Switzerland.

Borna Disease

Switzerland



Two outbreaks of Borna disease were reported.

Equine Infectious Anaemia (EIA)

USA



Three outbreaks were confirmed in Quarter Horses. Two involved one case and one involved two cases. All premises were quarantined.

Leptospirosis

France



One case was confirmed in an eight-year-old Saddle Horse stallion. Positive diagnosis was confirmed by PCR on aqueous humor.

Piroplasmosis

Finland



One case was confirmed in Riihimäki, Etelä-Suomi. Piroplasmosis was last reported in Finland in 1985.

South Africa



Piroplasmosis is regarded as endemic in South Africa. Sporadic cases were reported in Gauteng (18 cases), Mpumalanga (one case) and Western Cape (one case).

Switzerland



One outbreak of piroplasmosis was reported.

Potomac Horse Fever (PHF)

Canada



Four outbreaks in Quarter Horses, all involving single cases were confirmed. Clinical signs included diarrhoea, anorexia, dehydration, tachycardia and lethargy.

USA



Six outbreaks were confirmed, five involving one case and one involving 10 cases. Clinical signs included diarrhoea, pyrexia, dehydration and lethargy. *A further 11 outbreaks were also noted, with the majority in Kentucky and reported at the end of the quarter.

Vesicular Stomatitis (VS)

USA



Thirty-six outbreaks were confirmed in the following states, Arizona, Arkansas, Kansas, Missouri, Nebraska and Oklahoma. *VS continues to spread and a further 167 outbreaks were also noted mainly in equines, but some involving cattle and reported at the end of the quarter. The Indiana serotype of the virus was involved in all affected premises.