

Third Quarter Summary Report: July – September 2019

This article provides a summary of international infectious disease outbreaks reported during Q3. The ICC interim (real-time) reports, on an interactive website, can be found at <http://jdata.co.za/icviewer/>

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 Diseases

Country	EHV-1	CEM
<i>Denmark</i>	1	1
<i>France</i>	-	2
<i>Germany</i>	-	1

Equine Herpes Virus-1 (EHV-1) Abortion

 A single outbreak was reported. It involved four horses aborting over a period of one month.

Contagious Equine Metritis (CEM)

 A subclinical case was reported in a breeding stallion.

 A case was confirmed in a mare with clinical signs of metritis and abortion. A separate case was confirmed in a stallion and the stallion was castrated.

 One case of CEM was reported in an Icelandic mare. Positive diagnosis was confirmed by PCR on a genital swab.

Respiratory Diseases

Country	EHV-1	EHV-4	Influenza	<i>Rhodococcus equi</i>	Strangles
<i>Belgium</i>	2	3	1	1	-
<i>Denmark</i>	1	-	1	-	-
<i>France</i>	4	11	6	-	27
<i>Germany</i>	1	3	1	-	3
<i>Ireland</i>	2	1	-	-	-
<i>Japan</i>	-	1	-	-	-
<i>Netherlands</i>	1	3	-	-	15
<i>Sudan</i>	-	-	1	-	-
<i>Switzerland</i>	-	1	-	-	2
<i>UK</i>	1	6	59	-	Endemic
<i>USA</i>	-	-	Endemic	Endemic	Endemic

Equine Herpes Virus-1/-4 (EHV-1/-4) Respiratory Infection

International: EHV remains endemic in most countries and outbreaks are thought to be under-reported. Outbreak reports for each country rely on confirmation of disease through laboratory testing and therefore numbers of reports are highly likely to not correlate with the true disease frequency in that country for this reason.

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

-  For one outbreak, reported clinical signs included; coughing, nasal discharge, limb oedema, lymphadenopathy and pyrexia.
-  Seven horses on a single premises were confirmed positive by PCR over a period of one month.
-  Reports involved single cases. Reported clinical signs included dyspnoea and pyrexia. Positive diagnoses were confirmed by PCR on nasopharyngeal swabs. One case also had a co-infection with EHV-4.
-  A single case was reported.
-  Two outbreaks were reported and both involved a single case in a foal.
-  A single case was reported and clinical signs included pyrexia, nasal discharge and leg oedema. Positive diagnosis was confirmed by PCR on a nasal wash.
-  There was one laboratory confirmed case and the positive diagnosis was confirmed by PCR on a nasopharyngeal swab.

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

-  All reports involved a single laboratory confirmed case.
-  Ten reports involved single laboratory confirmed cases. One report involved one laboratory confirmed case and one other horse with similar clinical signs. Reported clinical signs included pyrexia, lymphadenopathy, nasal discharge and coughing. For all, positive diagnosis was confirmed by PCR on a nasopharyngeal swab.
-  Two outbreaks involved single cases and one outbreak involved three foals.
-  A single case in a non-Thoroughbred was reported.
-  The outbreak involved three unvaccinated Thoroughbreds.
-  All outbreaks involved single cases and two outbreaks involved a foal.
-  A single case was reported in a yearling.
-  All reports involved a single laboratory confirmed case. Clinical signs included coughing, nasal discharge, lymphadenopathy and pyrexia.

Equine Influenza

-  A single outbreak was reported.
-  A single case was reported.
-  Two reports were of single cases, one outbreak involved three cases, two outbreaks involved four cases and one outbreak involved six cases.
-  A single outbreak was reported involving two cases.
-  The disease has not been previously reported in Sudan, which may explain its rapid spread from South Darfur to East Darfur state. Clinical signs included respiratory signs, with around 700 cases reported and 107 deaths.
-  Outbreaks continued to be reported across the UK.
-  The disease was confirmed in at least six states, with multiple outbreaks occurring in some.

Rhodococcus equi

-  A single outbreak was reported.

Strangles

International: Strangles remains endemic in most countries.

Gastrointestinal Diseases

Country	Rotavirus	Equine neorickettsiosis
<i>France</i>	8	-
<i>USA</i>	22	25

Rotavirus

 Six reports involved single cases and two involved two cases. Clinical signs included anorexia, diarrhoea and pyrexia.

 The majority of outbreaks were reported in Kentucky in July.

Equine neorickettsiosis

 All reports involved single cases. Reports were from three states, the vast majority (23) in Kentucky, mostly in July and August. Clinical signs included anorexia, colic, diarrhoea, pyrexia and inappetence.

Neurological Diseases

Country	EEE	EHV-1	WNV
<i>Austria</i>	-	-	2
<i>Brazil</i>	-	-	3
<i>Canada</i>	4	-	1
<i>France</i>	-	3	4
<i>Germany</i>	-	-	8
<i>Greece</i>	-	-	2
<i>Italy</i>	-	-	1
<i>Netherlands</i>	-	1	-
<i>Switzerland</i>	-	1	-
<i>USA</i>	61	3	29

Eastern Equine Encephalitis (EEE)

 All reports were of single unvaccinated cases and all required euthanasia.

 Reports were from eastern states, with the highest number of reports from Florida and Michigan.

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

 Two reports were of single cases. One outbreak involved five horses with clinical signs. Clinical signs reported included ataxia and depression.

 A single case was reported and clinical signs included nasal discharge and ataxia. Positive diagnosis was confirmed by PCR on nasal wash.

 A single case was reported and it required euthanasia.

 All reported outbreaks involved single cases. Two of the cases required euthanasia and diagnosis was made at post mortem.

West Nile Virus (WNV)

 Reports were of single cases.

 All three reports were of single cases and all cases died. Two of the cases were detected as part of surveillance targeting testing of horses with neurological signs.

 A single unvaccinated case was reported.

 Reports involved single cases. Clinical signs included ataxia, depression, pyrexia and paresis.

 Reports involved single cases. Clinical signs included ataxia. When reported, one case was euthanased.

 A single case was detected following active surveillance.

 The report involved a single case.

 Clinical signs included ataxia, muscle fasciculations, pyrexia and recumbency. Almost half of the outbreaks occurred in California.

Miscellaneous Diseases

Country	AHS	EEV	EIA	EVA	VS	Anthrax	Glanders	Ehrlichiosis	Piroplasmosis
<i>Belgium</i>	-	-	-	-	-	-	-	-	-
<i>Canada</i>	-	-	3	-	-	-	-	-	-
<i>France</i>	-	-	2	2	-	-	-	-	-
<i>Germany</i>	-	-	-	-	-	-	-	1	-
<i>Kuwait</i>	-	-	-	-	-	-	1	-	-
<i>Poland</i>	-	-	-	1	-	-	-	-	-
<i>South Africa</i>	<5	3	-	-	-	-	-	-	29
<i>Switzerland</i>	-	-	-	-	-	-	-	1	-
<i>UK</i>	-	-	-	1	-	-	-	-	-
<i>USA</i>	-	-	15	-	>10	6	-	-	-

African Horse Sickness

 AHS cases decreased substantially with the onset of winter. Sporadic cases occurred in the Eastern Cape Province, Mpumalanga and Kwazulu Natal although the cases combined totalled less than five. There were no cases of AHS in the Western Cape Province, either in the infected part of the province or in the AHS controlled area.

Equine Encephalosis Virus (EEV)

 Three cases were reported.

Equine Infectious Anaemia (EIA)

 All reports involved single horses. One horse had clinical signs and two had no clinical signs.

 Both outbreaks involved single subclinical cases.

 When reported, one outbreak involved 17 positive horses, two outbreaks involved two positive horses and 11 outbreaks involved single positive cases.

Equine Viral Arteritis (EVA)

 One outbreak involved a mare that aborted. The other outbreak also involved a mare that aborted and two additional cases with respiratory signs.

 The outbreak had three positive cases with clinical signs of lethargy, pyrexia, conjunctivitis and oedema of the eye-lids and distal limbs.

 A single subclinical case was reported in a non-Thoroughbred stallion.

Vesicular Stomatitis (VS)

 Outbreaks have been reported across the south and central regions of USA. Reported clinical signs have included lesions on the sheath, tongue, lips, ears and ventral abdomen.

Anthrax



All reported outbreaks were in Texas, on premises located in the triangular area of Texas where anthrax is historically found in the soil.

Glanders



The reported outbreak involved three subclinical cases. Cases were detected through pre-export testing.

Ehrlichiosis



Positive diagnosis was confirmed by PCR on EDTA blood.



Positive diagnosis was confirmed by PCR.

Piroplasmosis



Piroplasmosis is endemic and there were 29 cases reported.