



Second Quarter Summary Report: April – June 2020

This article provides a summary of international infectious disease outbreaks reported during Q2. The ICC interim (real-time) reports, on an interactive website, can be found at <http://jdata.co.za/iccvviewer/>

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	CEM	EHV-1	EHV-3	EHV-4	Leptospirosis	<i>S. zooepidemicus</i>
Belgium	-	-	-	-	1	2
France	-	2	1	1	-	-
Germany	-	1	-	-	-	-
Japan	-	3	-	-	-	-
Netherlands	-	2	-	-	-	-
UK	1	3	-	-	-	-
USA	-	6 cases	3 cases	-	-	-

Contagious Equine Metritis (CEM)

A single subclinical case was reported in an imported non-Thoroughbred stallion

Equine Herpes Virus-1 (EHV-1) Abortion

Two separate outbreaks were reported and both involved single cases of abortion

A single case was reported involving a vaccinated Thoroughbred mare

One outbreak involved two cases of abortion and two involved single cases

One outbreak reported two cases of abortion and one case of neonatal mortality. One outbreak reported a single case of abortion

Three separate outbreaks were reported. One outbreak involved multiple cases with respiratory signs, three cases with neurological signs and one case of neonatal infection that died. One outbreak involved three cases of neonatal infection and all cases died. One outbreak involved a single case of neonatal infection and the case died

Six cases of abortion/neonatal infection were reported, all were in Kentucky

Equine Herpes Virus-3 (EHV-3) Coital Exanthema

A single case was confirmed by PCR on a swab sample

Three cases of infection were confirmed and all were in Kentucky

Equine Herpes Virus-4 (EHV-4) Abortion

A single case of abortion was reported

Leptospirosis

A single case of abortion was reported

Streptococcus zooepidemicus

Both reports involved single cases of abortion

Respiratory Diseases

Country	EHV-1	EHV-4	Influenza	Strangles
<i>Belgium</i>	2	1	-	1
<i>Estonia</i>	-	-	1	-
<i>France</i>	2	8	4	7
<i>Germany</i>	-	-	2	-
<i>Ireland</i>	8	4	-	-
<i>Japan</i>	1	-	-	-
<i>Netherlands</i>	1	5	4	16
<i>Switzerland</i>	-	1	-	4
<i>UK</i>	2	5	3	-
<i>USA</i>	1	-	Endemic	38

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 Influenza

-  A single outbreak was reported, with two vaccinated horses confirmed positive
-  Three outbreaks were reported to involve single cases and one outbreak involved a single confirmed case, with a further three horses demonstrating clinical signs
-  One outbreak was reported to involve a single vaccinated case. One outbreak involved two cases, one was vaccinated and one was unvaccinated
-  One outbreak reported a single unvaccinated case that was a new arrival, with 29 vaccinated in-contacts. One outbreak involved a single unvaccinated case with three vaccinated in-contacts. One outbreak involved a single unvaccinated recently imported case. One outbreak involved a single unvaccinated case
-  One outbreak involved two lapsed vaccinated cases. One outbreak involved one vaccinated case almost due an annual booster and an unvaccinated case, there were also around 13 additional horses displaying clinical signs, with unvaccinated cases reported to be more severely affected. The premises had received two new arrivals from Europe. One outbreak involved an unvaccinated case that was a recent new arrival
-  EI is endemic in the USA and was recorded in at least five states

Strangles

International: Strangles remains endemic in most countries

Gastrointestinal Diseases

Country	Rotavirus
<i>France</i>	14
<i>USA</i>	78 cases

-  Nine outbreaks involved single cases, four outbreaks involved two cases and one involved five cases
-  Seventy-eight cases of Rotavirus infection were confirmed, the majority in Kentucky. Of a subset of 67 of these cases, 31 were of the G3 genotype, 21 of the G14 genotype and 15 were positive for both genotypes

Neurological Diseases

Country	EEE	EEV	EHV-1	WNV
<i>Canada</i>	-	-	3	-
<i>South Africa</i>	-	71	-	-
<i>Switzerland</i>	-	-	1	-
<i>UK</i>	-	-	1	-
<i>USA</i>	2	-	11	2

Eastern Equine Encephalitis (EEE)



Two separated cases were reported

Equine Encephalosis Virus (EEV)



Cases were reported from 7 of South Africa's 9 provinces

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



For one outbreak, three Thoroughbreds displayed neurological signs and two of these were confirmed positive by laboratory testing. One outbreak involved five horses displaying neurological signs, with three of these requiring euthanasia. This second outbreak had an epidemiological link to the first outbreak. A third separate outbreak involved a single case displaying neurological signs



A single case was reported



A single case that required euthanasia was reported



All outbreaks reported single cases. Where reported, four cases were euthanased

West Nile Virus (WNV)



Two separate cases were reported and one was euthanased

Miscellaneous Diseases

Country	AHS	EIA	Hendra	Piroplasmosis	VS
<i>Australia</i>	-	-	1	-	-
<i>Canada</i>	-	1	-	-	-
<i>eSwatini</i>	1	-	-	-	-
<i>France</i>	-	-	-	-	-
<i>Germany</i>	-	1	-	-	-
<i>Hungary</i>	-	1	-	-	-
<i>New Zealand</i>	-	-	-	1	-
<i>South Africa</i>	Yes	-	-	42	-
<i>Thailand</i>	14	-	-	-	-
<i>USA</i>	-	4	-	-	107

African Horse Sickness



A single case was reported



AHS is endemic except in the AHS controlled area in the Western Cape Province. AHS cases have occurred at expected levels for this period within the endemic area of South Africa, with a drop in the number of cases when compared to quarter one of 2020. All 9 provinces had cases, with the greatest number of laboratory confirmed cases in Gauteng. A single case of AHS occurred in the AHS infected part of the Western Cape Province, approximately 220 km from the border of the AHS protection zone and 420 km from the AHS free zone



Multiple cases have been confirmed in 11 provinces



Equine Infectious Anaemia (EIA)



A single subclinical case was reported



A single case was reported and it was euthanased



A single subclinical case was reported



Two outbreaks involved two cases and two outbreaks involved single cases

Hendra virus



A single case was reported and it required euthanasia

Piroplasmosis



A single subclinical case was confirmed to be positive that had previously been imported



Piroplasmosis is regarded as endemic and sporadic cases were reported throughout the country

Vesicular Stomatitis (VS)



Cases were confirmed in Kansas, Nebraska, Arizona, New Mexico and Texas