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AGRICULTURE



Rabies detection in canine imported from Egypt

Rabies Subcommittee

October 29, 2019- Providence, RI

Sara McReynolds DVM MPH PHD
Assistant Animal Health Commissioner

KANSAS ANIMAL HEALTH REPORTABLE DISEASES

The Kansas Department of Agriculture's Division of Animal Health mission is to ensure the public health, safety and welfare of Kansas' citizens through the prevention, control and eradication of infectious and contagious diseases and conditions affecting the health of livestock and domestic animals in Kansas. The Animal Health Commissioner has determined the animal diseases listed below to be immediately reportable to Kansas Animal Health officials. Other diseases the Animal Health Commissioner determines to be immediately reportable due to an animal health emergency situation may be added at any time.



CERVID & CAMELID

Foot and Mouth Disease
 Vesicular Stomatitis
 Tuberculosis (active and latent)
 Anthrax
 Brucellosis
 +Rabies
 Chronic Wasting Disease
 Johne's Disease



CATTLE

Foot and Mouth Disease
 Vesicular Stomatitis
 Tuberculosis (active and latent)
 Anthrax
 Brucellosis
 +Rabies
 Rinderpest
 Psoroptic Mange
 Scabies
 Johne's Disease
 Trichomoniasis
 Bovine Spongiform Encephalopathy



EQUINE

Piroplasmosis
 Vesicular Stomatitis
 Equine Infectious Anemia
 Anthrax
 Brucellosis
 +Rabies
 Equine Herpesvirus Myeloencephalopathy (EHM)
 Western, Eastern and Venezuelan Equine Encephalomyelitis
 West Nile Virus



SHEEP & GOATS

Foot and Mouth Disease
 Vesicular Stomatitis
 Scabies
 Anthrax
 Scrapie
 Psoroptic Mange
 Brucellosis
 +Rabies
 Tuberculosis (active and latent)
 Johne's Disease



SWINE

Foot and Mouth Disease
 Vesicular Stomatitis
 Classical Swine Fever/Hog Cholera
 Anthrax
 Vesicular Exanthema
 Pseudorabies
 Brucellosis
 +Rabies
 African Swine Fever



AVIAN

Avian Influenza
 Fowl Typhoid
 Exotic Newcastle Disease
 Psittacosis
 Pullorum



DOGS & CATS

Brucellosis
 +Rabies

ZOONOTIC

A zoonotic disease is an infectious disease that can be transmitted from animals to humans.

A complete list of reportable diseases in humans can be found at www.kdheks.gov/epi

Many of these diseases, when diagnosed in humans, are reportable to KDHE and include:

- Anthrax
- Brucellosis
- Psittacosis
- Rabies
- Tuberculosis
- West Nile Virus

+Report all suspect or confirmed cases of rabies, including rabies in animals, to KDHE at 877-427-7317.

KDA: 785-564-6601 • KDHE Hotline: 877-427-7317

KDA Division of Animal Health • 1320 Research Park Drive, Manhattan, KS 66502 • 785-564-6601 • agriculture.ks.gov/animalhealth

Duty to Report

- K.S.A. 47-622. Report of diseases to animal health commissioner. It shall be the duty of the owner or person in charge of any domestic animal or animals who discovers, or has reason to believe that any domestic animal owned by 18 such person or in such person's charge or keeping is affected with any contagious or infectious disease, to immediately report such fact or belief to the animal health commissioner. It shall be the duty of any person who discovers the existence of any such contagious or infectious disease among the domestic animals of any person to immediately report this information to the animal health commissioner. History: L. 1911, ch. 312, § 13; R.S. 1923, 47-622; L. 1989, ch. 156, § 23; July 1; L. 2012, ch. 140, § 44; July

State Agency Responsibility for Rabies Cases

- Collaboration between KDA and KDHE in cooperation with County Health Department
- Kansas Department of Health and Environment
 - Human Health Implications
 - Authority to Manage Mammal Exposed to Rabies
 - K.S.A. 75-5661
- Kansas Department of Agriculture
 - Protection of Domestic Animals
 - Regulatory Quarantine Authority for Domestic Animals
 - K.S.A. 47-604 and K.S.A. 47-624

Domestic Case Presentation
Kansas Bottle Lamb Flock



Kansas Bottle Lamb Flock

- Feb 2019- Skunk observed attacking bottle lamb
 - Skunk was hit with a shovel and wandered off
 - Bite marks were confirmed on 3 lambs
- March 2019- Two lambs died
 - One submitted for rabies testing and confirmed **POSITIVE**
 - Rabies Postexposure Prophylaxis (PEP)
 - 4 adults and 2 children

Kansas Bottle Lamb Flock

- Quarantine issued
 - Case assigned to territory regulatory veterinarian
 - All lambs in group inventoried and received official ID
 - On-farm isolation facilities determined
 - Parameters of quarantine outlined
- Vaccination status discussed for on-farm domestic animals
 - Family Dog- current rabies
 - Farm Cats- received rabies vaccination
 - Donkey- received rabies vaccination
- Late March 2019- one additional lamb died
 - Confirmed negative for rabies

Kansas Bottle Lamb Flock

- Monthly monitoring continued by regulatory veterinarian
- June 2019- discovered owner failed to report 11 lambs died
 - Owner believed mortalities were a coccidiosis issue
 - No veterinarian involvement
 - Not able to determine cause of death
- KDA Administrative Process
 - Summary Order issued in response to quarantine violation
- Quarantine was extended for additional 6 months
- Monthly compliance monitoring continues
- December 2019- quarantine to be released

International Case Presentation: Imported Rescue Dogs from Egypt



Imported Rescue Dogs From Egypt

- January 2019- 26 dogs imported by Kansas licensed shelter from Egypt
- All presented with international health certificates and documentation of rabies vaccination
- Upon arrival all were placed in Kansas and Missouri foster homes

CERTIFICATE OF VETERINARY INSPECTION & RABIES CERTIFICATION	
EXPORTER INFORMATION	
Name: Animal Protection Foundation	Address: 1518 Broadway St. Mission, KS 66202 USA
Address: Sakkara - Giza - Egypt	City, State, Zip: Mission, KS 66202
Country: Egypt	Phone: +1 816 444 3118
Phone: +2010267531	
IMPORTER INFORMATION	
Name: [Blank]	Address: [Blank]
Address: [Blank]	City, State, Zip: [Blank]
Country: [Blank]	Phone: [Blank]
Phone: [Blank]	
ADDITIONAL COMMENTS	
Puppy traveling as a traveler from rescue to rescue for purpose of adoption. No monetary exchange was made. This is a rescue dog. Right Parent is Rescue Agent and has legal priority.	
ANIMAL INFORMATION	
Pet Name: Zolt	Vaccine Name/Type: Rabivar, DHPN - Rabivar, Lepto
Species: Dog	Vaccine Manufacturer: MCD, M2141
Breed: Mix Breed	Date Given: November 17, 2018 Date Due: November 17, 2019
Approximate Age or Date of Birth: May 2017	Vaccine Name/Type:
Weight: 23 kg	Vaccine Manufacturer:
Sex: Male	Date Given:
Spayed/Neutered: Yes	Date Due:
Description of Pet and any Non-contagious medical issues: Scope, Oxy	Vaccine Name/Type:
Microchip No: 96200000100757	Vaccine Manufacturer:
	Date Given:
	Date Due:
List any tests done and results:	Vaccine Name/Type:
	Vaccine Manufacturer:
	Date Given:
	Date Due:
RABIES CERTIFICATION	
MANUFACTURER	SERIAL NUMBER
Danisco	2171810
Date Given: November 17, 2018 Next Due: November 17, 2019	
Vaccine History (check ONE)	
<input checked="" type="checkbox"/> First Rabies vaccination for this animal	
<input type="checkbox"/> Animal previously vaccinated, certifying presented	
<input type="checkbox"/> Jointed Missouri Veterinarian Signature & Date: [Signature]	<input checked="" type="checkbox"/> Yes
VETERINARIAN CERTIFICATION	
FOR DOGS ONLY (ONLY CERTIFICATION)	
I, Ahmad Mansour, certify by checking this box that this dog was vaccinated, in enough time for dog to be protected before the date of arrival in the US, for rabies, leptospirosis, parvovirus, and parainfluenza virus (CPV-1) at a facility that provides continuous protection of the dog from those diseases and is in accordance with currently accepted practices as cited in veterinary medical reference guides.	
SIGNATURE	Veterinarian Name
	Ahmad Mansour
	Address: Haram - Giza - Egypt
	Phone: 01276761004
	License Number and Country Issued: 58342
Veterinary Certification Statement:	
I certify, as a veterinarian, that I have inspected the animal identified on this certificate and that the animal is not showing any signs of infectious, contagious or communicable disease. Vaccinations and test results are as indicated on this certificate. The animal is healthy for transport/travel.	
X	Veterinarian Signature & Date: [Signature]

Imported Rescue Dogs From Egypt

- February 21, 2019 a 3 yr. old mix breed female bit a technician at a Missouri veterinary hospital and developed neurological signs
 - **Confirmed POSITIVE for Rabies at KSVDL**
- The sequencing results came back as 'Cosmopolitan Dog Rabies Virus Variant' consistent with what is seen in Egypt.
- Letter emailed to adoptive and foster families of other 25 dogs on 2/27 detailing the return to the facility for prospective serological monitoring and quarantine. Hard copy also sent via certified mail to adoptive and foster families.
- Press release and Kansas Health Alert Network was distributed 2/27

Officers looking for rescue dog in Leawood that escaped, possibly exposed to rabies

POSTED 5:53 PM, FEBRUARY 27, 2019, BY BRIAN DULLE, UPDATED AT 11:09AM, MARCH 1, 2019

f FACEBOOK

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👤 REDDIT

in LINKEDIN

✉️ EMAIL

BY **CANDI BOLDEN** ✉️

Update: The foster dog from Egypt that was running loose in Leawood has been caught.

An imported Egyptian dog, possibly wearing a purple sweater, escaped its foster family in Leawood this week and is being sought by police and health officials.

The dog was among a group of 26 that was imported from Egypt by [Unleashed Pet Rescue in Mission](#) at the end of January.

LEAWOOD, Kan. — Thanks to the Leawood and Overland Park Animal Control Officers,

<https://fox4kc.com/community-calendar/>

After one rescue tests positive for rabies, 25 other dogs quarantined in JoCo as a precaution

POSTED 8:16 PM, FEBRUARY 28, 2019, BY SEAN MCDOWELL

Imported Rescue Dogs From Egypt

- KDHE went back 10 days prior to clinical signs of the dog that was euthanized to determine exposure.
- All animals and humans that have come into contact with the dog from that time forward were evaluate.
 - Those that were exposed have started PEP
 - Many people that were not exposed are also receiving PEP
 - Information about exposure and encouraged to call KDHE hotline
 - Some facilities are low on HRIG due to numbers receiving PEP (most are not exposed)

Imported Rescue Dogs From Egypt

- Following the confirmation, all dogs on the shipment and those with known exposure to the rabid dog had to be located for quarantine
 - Drew blood for prospective serologic monitoring
- The sequencing results came back as 'Cosmopolitan Dog Rabies Virus Variant' consistent with what is seen in Egypt.
- Time frame of quarantine was dependent on serologic test results and evaluation of health of animal

Imported Rescue Dogs From Egypt

- Following the confirmation, all dogs on the shipment and those with known exposure to the rabid dog had to be located for quarantine
- In total, 27 dogs were quarantined at a licensed shelter for up to 6 months
- Over 20 people received Rabies Postexposure Prophylaxis (PEP)
- Investigation Concluded:
 - Falsified Rabies Vaccination Certificates
 - Falsified Rabies Titers
 - Subsequent Titer Tests
 - Indicated only 7 of 26 had previously been vaccinated

Imported Rescue Dogs From Egypt

- According to the CDC regarding the number of dogs imported into the U.S., an estimated 1.06 million dogs are entering the U.S. each year and 107,100 from a country with canine rabies virus variant.
- The CDC also published the cost of these investigations as it relates to past imported rabid dogs. They estimate the cost per each imported rabid dog is around \$213,000.

Looking Ahead

- Should Kansas restrict the international importation of rescue dogs?
- What about the potential risk for the introduction of a foreign animal disease with these importations?

Kansas Department of Agriculture
Division of Animal Health
785-564-6601
agriculture.ks.gov/animalhealth

Sara McReynolds DVM, MPH, PhD
sara.mcreynolds@ks.gov

