Rabies detection in canine imported from Egypt

Rabies Subcommittee
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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
- Proplasmosis
- 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
- Vescicular Exanthema
- Pseudorabies
- Brucellosis
- Rabies
- African Swine Fever

AVIAN
- Avian Influenza
- Fowl Typhoid
- Exotic Newcastle Disease
- Psittacosis
- Poulxorum

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/zoonotic

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
Reported Rabies Cases in Kansas

Rabies: 2019

www.ksvd.org/disease-trends.html
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
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

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, JoCo
https://foxkc.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 evaluated.
  • 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?
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