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Fall/Winter 2023-2024



This is ferret lung with an interstitial pneumonia associated with skunk adenovirus and *Streptococcus equi* subsp. *zooepidemicus* infection. Magnification 20X. Hematoxylin and eosin stains.

UGA ZEAPS detects skunk adenovirus-1 in domestic ferrets (Mustela putorius)

In early 2019, the UGA Zoo and Exotic Animal Pathology Service, which is comanaged by the Infectious Diseases laboratory, received whole body specimens of three male ferrets (*Mustela putorius*) from a regional pet vendor. The ferrets had arrived at the vendor's facility in two different shipments over about a three-week period; all died within days of arrival at the facility. Per the vendor, the new arrivals Subscribe

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The ZEAPS and IDL teams, working in concert with complementary veterinary diagnostic services at the University of Georgia, identified the likely cause of death in these ferrets as skunk adenovirus-1, or SkAdV-1, which was detected by electron microscopy and validated by other tests. Our diagnosis represents the first identification of SkAdV-1 in ferrets—the seventh species in which this virus has been identified.

Adenoviruses can infect almost all known classes of vertebrates, including humans. A recent study screened 327 published manuscripts for relevance to zoonotic and anthroponotic transmission potential and identified 74 for review; of 24 deemed relevant, 16 demonstrated evidence of zoonotic transmission of AdVs.

Adenoviruses may cross species barriers, even among distantly related species. For instance, canine adenovirus 1 (CAdV-1) has caused disease in 3 mammalian families including foxes, wolves, and coyotes (Canidae); skunks (Mephitidae); and bears (Ursidae).

We encourage you to read our latest study, <u>Detection of skunk adenovirus-1 in</u> <u>domestic ferrets (Mustela putorius), which is published in the January 2024 issue of</u> <u>the Journal of Veterinary Pathology</u>. Co-authors on this study are Maria E. Orbay-Cerrato, Roger Alan Nilsen, Nicole Gottdenker, Rita McManamon, Jessica A. Elbert, Justin M. Stilwell, Mary B. Ard, Branson W. Ritchie, and Brittany McHale.

Orbay-Cerrato ME, Nilsen RA, Gottdenker N, et al. Detection of skunk adenovirus-1 in domestic ferrets (Mustela putorius). Veterinary Pathology. 2024;61(1):135-139. doi:10.1177/03009858231189722

UGA ZEAPS provides access to histopathology and diagnostic services through a team of highly trained, board-certified pathologists with unique expertise in zoological and exotic animal species. All diagnostic work is conducted by the IDL, complementary UGA laboratories, or subcontracting laboratories that meet rigorous standards. ZEAPS is managed by IDL, which is based in the Department of Small Animal Medicine and Surgery, and the Department of Pathology.

For more information about the services offered by ZEAPS and/or IDL, contact us at <u>idl@uga.edu</u>.

Recent Manuscripts

Orbay-Cerrato ME, Nilsen RA, Gottdenker N, McManamon R, Elbert JA, Stilwell JM, Ard MB, Ritchie BW, McHale B. Detection of skunk adenovirus-1 in domestic

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Emerging Diseases

Past Issues

Angiostrongylus cantonensis infection has been identified in Brown Rats (Rattus norvegicus) from Atlanta, Georgia. Rat lungworm is a zoonotic parasite invasive to the United States and causes eosinophilic meningoencephalitis. For more information on this emerging public health concern, read our study published in Emerging Infectious Diseases:

https://wwwnc.cdc.gov/eid/article/29/10/23-0706_article.

We recommend testing for pan-circovirus, as other PBFD-like lesions have been observed in birds (including psittacines) that are not circovirus 1 or circovirus 2. Call the laboratory if you need assistance with diagnosing or managing outbreaks involving any variants of circovirus. 706-542-5812

The **first case of Rabbit Hemorrhagic Disease in Georgia** was documented in a companion rabbit sent to the Infectious Diseases Laboratory's Zoo and Exotic Animal Pathology Service (ZEAPS).

Updates on policies, tests, etc.

We no longer perform the following assays:

- feline heartworm antigen
- Snap 4dx
- rheumatoid factor

IDL's Holiday Schedule

We thank you for your business and wish you and your colleagues a Happy Holiday Season and successful 2024!

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	University of Geor	gia	
	Atnens, GA 30602	<u></u>	
	Our phone numbe	rs:	
	(706)542-8092((office); (706) 583-0843 (Fax); (706) 542-5812 (Lab)	
	How the holidays	impact your shipments and our services:	
	December and Ja 2023, through Jan open during this t support services. I 26-29. However, y	nuary: The University of Georgia is closed from December 2! nuary 1, 2024. Except for December 25 and January 1, IDL is ime, but the UGA closing influences our staffing and all UGA DL will receive UPS and FedEx packages on December 22 and we will not receive U.S. mail each day.	5 ,
	Molecular Diagnos will be reduced. W We recommend yo December 22 or af	stic Tests at IDL: IDL will be short-staffed and phone coverage will complete diagnostic tests as sample volume dictates. bu ship any elective screening samples to arrive prior to fter January 2.	je
	Histopathology Se Service (ZEAPS): S tests) through our Diagnostic Labora through December STAT samples, and cases to arrive prio will be limited to e other concerns, pl and she will help c	ervices through the UGA Zoo and Exotic Animal Pathology support services (histopathology processing, some diagnost UGA partners (Pathology Department and Athens Veterina tory) will be reduced and less predictable from December 20 or 29. We cannot promise short turnaround for biopsies or d test reporting will be reduced. Please send histopathology for to December 20 or after January 2. Pathologist availability emergencies only. If you need an emergency necropsy or hav ease contact Dr. Brittany McHale on her cell at 815–575–29 oordinate your case.	ic ry 5 y 7e 54
	We hope you enjoy	y your holiday season!	
	The Infectious [Diseases Laboratory Staff and the ZEAPS Pathologists	
	Drs. Bran Ritchie, B and Nicole Gottden	rittany McHale, Bryce Miller, Caitlin Burrell, Elizabeth Howerth ker, and IDL staff Holly Beach, Kara Huff, Roger Nilsen, Teri	

Roloson and Carla Foditsch

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