

Stephen B. Harvey, DVM, MS, DACLAM University of Georgia May 2009

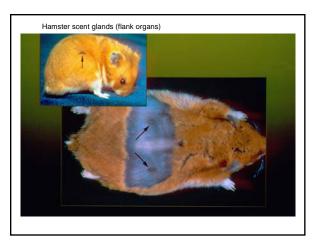
Many thanks to these individuals for their extensive previous work in compiling this material:

Dr. Diane Forsythe Dr. Mary Grant Dr. Marti Hanes

Disclaimer

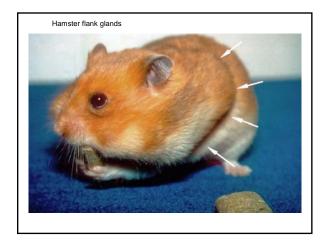
- Not ACLAM-sanctioned
- No specific knowledge of material on the 2009 ACLAM exam

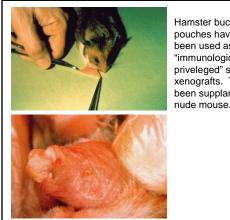




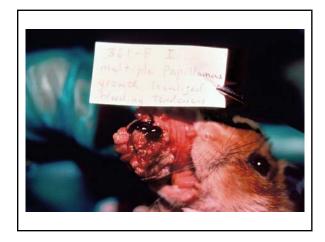


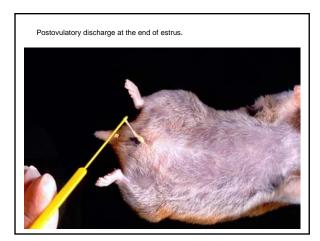
-Consist of sebaceous glands, pigment cells, and terminal hair -Darkly pigmented in males -In males, appear to play a role in converting testosterone to dihydrotestosterone



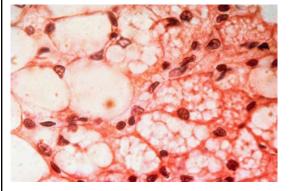


Hamster buccal "cheek" pouches have historically been used as "immunologically priveleged" sites for xenografts. This has been supplanted by the nude mouse.

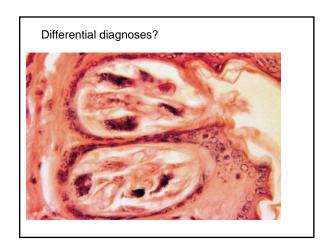


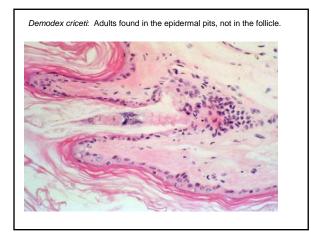


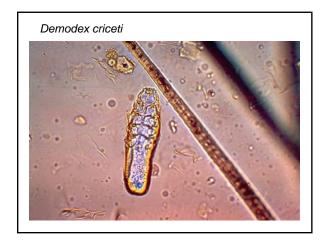
Where is brown fat most likely to be found in hamsters?

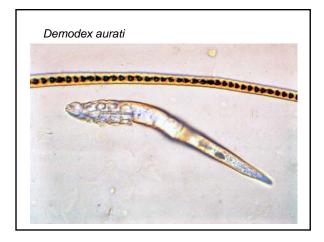


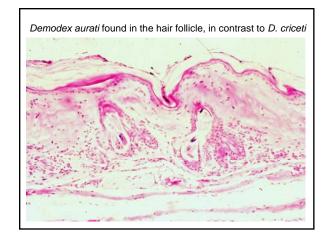




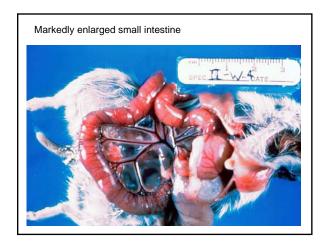


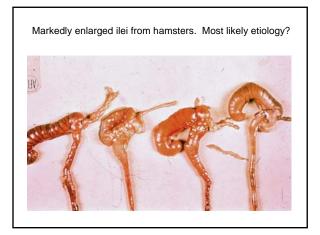












Lawsonia intracellularis

- Agent implicated in proliferative ileitis of hamsters
- Intracellular forms are found in apical cytoplasm of hyperplastic ileal enterocytes
- Similar lesions recognized to occur in
 - Rabbits
 - Mice
 - Rats
 - Guinea pigs

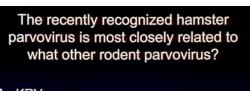
Lawsonia intracellularis

- Epizootics usually seen in younger animals, esp. post-weaning
 - Morbidity/mortality may be 60-90%
 - Clinical signs: lethargy, unkempt haircoat, anorexia, weight loss, diarrhea, dehydration
- Hamsters usually resistant to experimental disease by 10-12 weeks of age
- Diagnosed by gross & histologic lesions. Organisms on in apical cytoplasm of ileal mucosal cells will stain with Warthin-Starry silver stains

Suckling and weanling animals in a colony of Syrian hamsters presented with domed calvaria, a potbellied appearance, high mortality, and marked discoloration, malformation, and/or absence of the incisor teeth.







- A. KRV
- B. MVM
- C. MPV-1
- D. H-1
- E. Lulli

Young hamster euthanized due to poor body condition. What is the most obvious gross lesion?



- What is the etiologic agent which causes epizootics of lymphoma in young hamsters?
- a. Lymphocytic choriomeningitis virus (LCMV)
- b. Pneumonia virus of mice
- c. Hamster Parvovirus (HaPV)
- d. Hamster Papovavirus (HaPV)
 e. Mouse adenovirus MAdV-2 (K87)



True/False: The etiologic agent which causes these lymphoid tumors can be visualized by electron microscopy.

In a recently-published study evaluating lipoproteins in hamsters fed several high-carbohydrate diets, animals fed a high-fructose diet showed increases in all of the following parameters EXCEPT:

- a. Very-low-density lipoprotein (VLDL) triglyceride
- b. Apolipoprotein B c. Free cholesterol
- d. Phospholipid

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