CASE YN12-481: THE ICTERIC RHESUS

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Signalment

- 6 year, 3 month old sexually intact male *Macaca mulatta*

History

- Intravenous SIV isolate (SIV mac 239)
- Clinical Signs
  - 2 years post experimental exposure
    - Icteric, ocular discharge, paronychia
    - Peripheral lymphadenopathy, mucosal vesicles
- Euthanized
  - Severe immunosuppression secondary to SIV
Complete Blood Count

Within normal limits

Serum Chemistry Profile

↑ SGOT – 133 U/l (24-45)
↑ SGPT – 226 U/l (24-78)
↑ GGTP – 174 U/l (48-85)
↑ AlkPhos – 13950 U/l (55-237)
↑ T. Bilirubin – 8.8 mg/dl (0-0.3)

Urinalysis

Bilirubinuria (3+)

Blood culture

Staphylococcus aureus
Gross Findings

External Description

Generalized jaundice noted
Paronychia

Lungs

Fibrinous adhesions throughout all lung lobes

Liver

Hepatomegaly with granular capsular surface
Thickened gallbladder
Histopathology

LUNG
Histopathology

BILE DUCT HYPERPLASIA
Morphologic Diagnosis

- Proliferative cholecystitis
- Proliferative cholangiohepatitis
- Pleuritis
- Serositis
Secondary to *Enterocytozoon bieneusi*
Enterocytozoon bienuesi

Microsporidia

- Obligate intracellular organism
  - Fecal-oral route
  - Gallbladder reservoir
- Jaundice and hepatomegaly
  - Cholecystitis, choledochitis, and cholangiohepatitis
- Most prevalent microsporidium in HIV-infected AIDS patients
  - Also immunocompromised rhesus macaques
- Serositis and pleuritis: RARE

Diagnosis:

- Immunohistochemistry
- Polymerase chain reaction (PCR)


Formulary of the Association of Primate Veterinarians, Alamogordo Primate Facility, Holloman AFB, NM.


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Questions?

biggest animal fears

the vacuum  shoes  bright lights

cold farmer's hands  a world without bananas  being separated from the herd

cold farmer's hands  a world without bananas  being separated from the herd

heights  the dentist  a lonely woman with a box of doll clothes