N16-30 ‘Hampton’ – That’s Some Pig!

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Presentation

Signalment:
• 4 month old
• Pot-bellied piglet

History:
• Day reported normal
• Evening noted acute onset dyspnea & unresponsiveness
Presentation

Initial Assessment:
- Unresponsive
- Fine muscle tremors
- Bradycardia
- Bradypnea
- Cyanosis
- BCS 1.5/5
- Exudative dermatitis with lichenification
- Hypothermia
- Hypoglycemia
Hospitalization

- Supportive care
- Oxygen therapy
- Warm rectal fluids
- External heat
- IO fluid therapy
- NSAID
- Antibiotic
- Initial slight improvement
- Spontaneous death
Additional Gross Findings

Multifocal Abscesses
- Mesentery
- Liver
- Spleen
- Kidneys
- Lungs

Lymphadenomegaly
- Mesenteric
- Inguinal

Thymic atrophy
Skin

Corynebacterium sp.

Staphylococcus hyicus

Lung

Pasteurella multocida

Pseudomonas sp.

Trueperella pyogenes

Staphylococcus sp.
Morphologic Diagnosis

Dermatitis, diffuse, chronic, marked to severe, with marked, diffuse orthokeratotic and parakeratotic hyperkeratosis, numerous intracorneal mites (morphology consistent with *Sarcoptes scabiei*), and intracorneal coccobacilli
Key Points

*Sarcoptes scabiei*

- Highly contagious
  - Economic importance
  - Zoonotic potential
- Mechanical injury
- Irritant effects
  - Secretions, excreta
  - Hypersensitivity reactions
- Shifts skin microbiota
Thank you!
Recommended Resources


Image Credits & Sources

All gross and histologic pathology images were acquired from the University of Florida Department of Infectious Diseases & Pathology case N16-30, collected by Dr. Elizabeth Kieran, under the supervision of Dr. Michael Dark (4-7, 9)

The parasitology image of *Sarcoptes scabiei* was acquired from the University of Florida Department of Infectious Diseases & Pathology case N16-30, specimen isolated, identified, and photographed by Dr. Heather Walden (8)

All porcine illustrations were created by or inspired by Garth Williams, the original illustrator of Charlotte’s Web (authored by E.B. White):

1. dibblyfresh1.blogspot.com
2. http://lonelyangelsansa.deviantart.com/art/Pig-85446707

Microbiology images were obtained from the following internet resources:

10. microbe-canvas.com
12. http://visualsunlimited.photoshelter.com/image/I0000c4cF3r0yyis

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