FUNCUS AMONG US

Case R15-852

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HISTORY

- 8-year-old male domestic long-haired cat
- Cat presented to a private clinic with acute dyspnea, anorexia, and aggressiveness
- Radiographs and ultrasound: Pleural effusion and suspect diaphragmatic hernia

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HISTORY CONTINUED

- Exploratory laparotomy
- Thoracocentesis: Neutrophils and macrophages

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Punch biopsy from the cutaneous lesions: Pyogranulomatous inflammation in the dermis with intralesional fungal hyphae

After the diagnosis, the cat was humanely euthanized due to the progression of clinical disease.
Necropsy Findings/Sample Submission

- Referring veterinarian completed the necropsy
- Findings: Multifocal to coalescing, white, 5-10 mm diameter nodules within the thoracic cavity
- No other significant gross findings

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MORPHOLOGIC DIAGNOSIS

- Severe, multifocal to coalescing necrogranulomatous pneumonia and pleuritis with fungal hyphae
- Ulcerative and pyogranulomatous dermatitis and panniculitis with numerous intralesional fungal hyphae
- Necrogranulomatous thoracic lymphadenitis with intralesional fungal hyphae

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ANCILLARY TESTING

- A swab from the cutaneous lesions was submitted for fungal culture, PCR, and DNA sequence analysis

- Fungal culture: Heavy growth of non-pigmented fungus with arthroconidia on all media

- PCR and DNA sequence analysis of the D1D2 and TS1 regions revealed a 100% similarity *Trichosporon loubieri* as the causative agent (GeneBank accession JN939448.1)
**TRICHOSPORON LOUBIERI**

- *Trichosporon* is an anamorphic fungi with mycelium that form arthroconidia
- Usually only infect immunosuppressed individuals
- Multiple species of *Trichosporon* have been associated with clinical disease

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DISSEMINATED TRICHOSPORONOSIS

- Systemic infection in cats may be associated with chronic debilitating disease
- No underlying disease was detected in this cat
- There has not been documentation of systemic *Trichosporon loubieri* infection in the veterinary medical literature to date
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QUESTIONS

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REFERENCES

