Presentation #61
Case #170044

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Signalment and History

• 37 red tail hemiodus (*Hemiodus gracilis*)
• In quarantine, several moribund and mortality of 1-2/day with total loss of 15
• Gill clip: showed single ciliate parasites
Necropsy Findings

• Gross findings: dark discoloration of distal half of the body
Acid fast stain
Gram’s stain
Morphologic Diagnosis

- Cellulitis and ganglioneuritis, lymphocytic and histiocytic, locally extensive, moderate, acute, with edema, hemorrhage, and intralesional myxozoan spores
Morphology of *Myxobolus* sp. spores

**PC**: polar capsule, **SP**: sporoplasm, **SV**: shell valve, **SL**: sutural line, **L**: spore length, **W**: spore width, **T**: spore thickness, **PCL**: polar capsule length, **PCW**: polar capsule width

Hiroshi Yokoyama et al. (2012)
Discussion/Life cycle of myxosporean

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Discussion

• Spore morphology of *Myxobolus* sp.
• Speciation: fresh spores needed
• Economically significant diseases: whirling disease (*Myxobolus cerebralis*)
• Tissue destruction and inflammatory response: plasmodia ruptured
Case outcome

- Mortality: transport stress and trauma
- The rest of the shipment remained alive and swimming

![Happy Fish](https://www.zazzle.com)
References


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Questions

http://www.clker.com/cliparts/N/j/M/5/F/w/orange-happy-fish.svg

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