

CASE NUMBER: 04F-24-P2-4

DATE: Mar 21, 2004

**HISTOPATHOLOGY:**

Slide 11, P2-4-1:

- 1). Heart, compact layer, ventricle: Myocarditis, moderate, multifocal, granulomatous and fibrinous, subacute to chronic
- 2). Kidney, hematopoietic tissue: Myelopoiesis, moderate, multifocal

There are no significant lesions within the liver or spleen.

Slide 12, P2-4-2:

- 1). Heart, epicardium: Serositis, moderate, multifocally extensive, granulomatous with rare intralesional coccobacilli and reactive mesothelia
- 2). Spleen: Lymphoid depletion, moderate, diffuse
- 3). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse

There are no overt lesions in the liver.

Slide 13, P2-4-3:

- 1). Kidney, spleen and heart (spongy layer): Granuloma to pyogranuloma, moderate, multifocal, random, chronic with lymphomyeloid hyperplasia and intralesional cocci
- 2). Liver, sinusoids: Disseminated intravascular coagulation, moderate, multifocal, acute

Slide 14, P2-4-4:

As in slide 13, but marked inflammatory infiltrate and more florid accumulation of coccobacilli

Slide 15, P2-4-5: Slide 11, P2-4-1:

- 1). Kidney and spleen: Granuloma, mild, multifocal, random, chronic
- 2). Heart: Epicarditis, mild, multifocal, granulomatous, chronic

There are no overt lesions within the liver.

Slide 16, P2-4-6:

As in slide 14.

Slide 17, P2-4-7:

- 1). Heart, epicardium: Serositis, moderate, multifocally extensive, granulomatous
- 2). Spleen: Lymphoid depletion, moderate, diffuse
- 3). Kidney: Nephritis, interstitial, pyogranulomatous, subacute, moderate, multifocal, random with lymphomyeloid hyperplasia
- 4). Liver, sinusoids: Disseminated intravascular coagulation, moderate, multifocal, acute with scattered lymphohistiocytic infiltrates

Slide 18, P2-4-8:

- 1). Heart, spongy layer: Myocarditis, marked, multifocal, granulomatous, chronic
- 2). Spleen: Lymphoid depletion, moderate, diffuse
- 3). Kidney: Nephritis, interstitial, moderate, multifocal to coalescing, pyogranulomatous, subacute with lymphomyeloid hyperplasia
- 4). Liver: Cholangiohepatitis, moderate, focal, granulomatous, chronic

Slide 19, P2-4-9:

- 1). Spleen: Lymphoid depletion, moderate, diffuse
- 2). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse

There are no overt lesions in the heart or liver.

Slide 20, P2-4-10:

As in slide 14.

Slide 21, P2-4-11:

As in slide 14.

#### COMMENTS:

Within virtually all examined sections, there is profound multisystemic pyogranulomatous to granulomatous infiltrate with intralesional coccobacilli which would have contributed significantly to antemortem morbidity and presumably the loss of these fish. If representative of the entire population, the prognosis for recovery to previous production levels would be guarded. Based on the nature of the infiltrate and bacterial morphology, bacterial kidney disease would be a prime consideration and follow ancillary diagnostics for confirmation is recommended. Review of current brood stock selection and site management may also be considered.

**\*FINAL REPORT\***