

CASE NUMBER: 04F-64-P3-19

DATE: July 31, 2004

**HISTOPATHOLOGY:**

Slide 28, P3-19-1:

- 1). Heart, endocardium: Myocarditis, marked, nodular to diffuse, lymphohistiocytic and necrotising, subacute
- 2). Kidney: Nephritis, interstitial, marked, multifocal to coalescing, lymphohistiocytic, subacute with intracellular coccobacilli
- 3). Liver: Hepatitis, marked, multifocally extensive, necrogranulomatous with central cavitation and intrahistiocytic coccobacilli
- 4). Spleen: Lymphoid depletion, moderate, diffuse

There are no significant lesions within the peripheral nerves.

Slide 29, P3-19-2:

- 1). Liver, centrilobular to midzonal: Degeneration and necrosis, moderate, multifocal, acute
- 2). Kidney, hematopoietic tissue: Necrosis, mild to moderate, multifocal, random, acute
- 3). Spleen: Lymphoid depletion, moderate, diffuse

There are no significant lesions within the heart.

Slide 30, P3-19-3:

- 1). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse

There are no significant lesions within the liver, heart, spleen, adipose tissue, peripheral vasculature or peripheral nerves.

Slide 31, P3-19-4:

- 1). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse
- 2). Liver, sinusoids: Lymphomyeloid hyperplasia, moderate, diffuse
- 3). Heart, endocardia: Hyperplasia, mild, multifocal, subacute

There are no significant lesions within the spleen, adipose tissue, peripheral vasculature or peripheral nerves.

Slide 32, P3-19-5:

- 1). Heart, endocardium: Myocarditis, severe, marked, multifocally extensive, lymphohistiocytic and necrotising, subacute
- 2). Kidney: Nephritis, interstitial, marked, multifocal to coalescing, lymphohistiocytic, subacute with intracellular coccobacilli
- 3). Liver: Hepatitis, marked, multifocally extensive, necrogranulomatous with central cavitation and intrahistiocytic coccobacilli
- 4). Spleen: Lymphoid depletion, moderate, diffuse

There are no significant lesions within the peripheral nerves.

Slide 33, P3-19-6:

1). Heart, compact ventricle: Myocarditis, mild, multifocal, nonsuppurative, chronic

There are no significant lesions within the liver, kidney, spleen, peripheral vasculature or peripheral nerves.

**COMMENTS:**

The multisystemic inflammatory infiltrate, necrosis and reactive (lymphoid) change noted within virtually all examined sections is profound and likely would have contributed significantly to antemortem morbidity and increased mortality within the stock; based on the nature of the inflammatory infiltrate and bacterial morphology, bacterial kidney disease would be a consideration and follow up ancillary diagnostics is recommended. The lymphomatous hyperplasia noted in slide 31 appears distinct to marine anemia and most likely represents a more protracted disease course in this fish. The hepatocellular degeneration and necrosis in slide 29 is considered a sequela to generalized septicemia.

**\*FINAL REPORT\***