

CASE NUMBER: 03F-49-A3.4-17

DATE: Aug 8, 2003

MORPHOLOGIC DIAGNOSES:

Slide 119, A3.4-17-1:

- 1). Spleen: Splenitis, moderate, multifocal, random, acute, necrohemorrhagic with scattered intralesional bacilli
- 2). Liver, sinusoids: Embolism, septic, mild to moderate, multifocal, random, acute
- 3). Kidney: Nephritis, interstitial, moderate, multifocal, embolic, necrohemorrhagic, with scattered intralesional bacilli
- 4). Heart, endocardia: Bacilli, intracellular, mild, multifocal, random, acute

There are no overt lesions within peripheral nerves.

Slide 120, A3.4-17-2:

- 1). Spleen: Embolism, bacterial, moderate, multifocal, random
- 2). Liver, sinusoids: Embolism, bacterial, mild, multifocal, random
- 3). Heart: Myocarditis, mild, multifocal, necrotising, with scattered intralesional extracellular bacilli

There are no significant lesions with the peripheral nerves.

Slide 121, A3.4-17-3:

- 1). Kidney: Nephritis, interstitial, moderate, multifocal, embolic, necrohemorrhagic, with scattered intralesional bacilli
- 2). Liver, sinusoids: Embolism, bacterial, moderate, multifocal, random

There are no overt lesions within the heart, spleen, or peripheral nerves

Slide 122, A3.4-17-4:

- 1). Spleen: Congestion and hyperemia, moderate, diffuse

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

Slide 123, A3.4-17-5:

- 1). Kidney: Nephritis, interstitial, moderate, multifocal, embolic, necrohemorrhagic, with scattered intralesional bacilli
- 2). Heart, endocardia: Bacilli, intracellular, moderate, multifocal, random, acute
- 3). Spleen, ellipsoids: Bacilli, intracellular, moderate, multifocal, random

There are no significant lesions within the liver, pancreas, adipose tissue and peripheral nerves.

Slide 124, A3.4-17-6:

There are no significant lesions within the kidney, intra-renal gland, spleen, heart, liver,

pancreas, adipose tissue and peripheral nerves.

Slide 125, A3.4-17-7:

- 1). Spleen: Splenitis, moderate, multifocal, random, acute with scattered intralesional bacilli
- 2). Liver: Hepatitis, moderate, multifocal, random, necrotising, acute, with intralesional bacilli
- 3). Kidney: Nephritis, interstitial, moderate, multifocal, embolic, necrohemorrhagic, with scattered intralesional bacilli
- 4). Heart: Myocarditis, moderate, multifocal, random, acute with intralesional bacilli

There are no overt lesions within peripheral nerves.

Slide 126, A3.4-17-8:

There are no significant lesions within the kidney, corpuscle of Stannius, spleen, heart, liver, pancreas, adipose tissue and peripheral nerves.

Slide 127, A3.4-17-9:

- 1). Kidney: Nephritis, tubulointerstitial, moderate, diffuse, granulomatous, chronic with intraluminal mineral deposits (nephrocalcinosis)
- 2). Liver, hepatocytes: Degeneration and necrosis, mild, multifocal, random, acute

There are no significant lesions within the spleen, heart, pancreas, adipose tissue and peripheral nerves.

COMMENTS:

In 5 of 9 sections, the intralesional bacilli and attendant necrosis are consistent with a generalized sepsis which would have been sufficiently severe to have contributed to increased morbidity and frank mortality. Based on the lack of attendant inflammatory infiltrate and colony morphologic, furunculosis (*Aeromonas salmonicida*) is a prime consideration and if fresh tissue is available, follow up culture and sensitivity should be undertaken. As these fish were likely shedding pathogens antemortem, additional stock have likely been exposed and should be closely monitored for possible development of clinical signs. The hepatocellular degeneration and necrosis and splenic congestion likely reflect sequelae to generalized septicemia. The nephrocalcinosis was detected in a single slide and is considered an incidental finding of limited clinical or pathologic significance.

FINAL REPORT