

CASE NUMBER: 03F-49-P2-22

DATE: Aug 2, 2003

MORPHOLOGIC DIAGNOSES:

Slide 37, P2-22-1:

- 1). Kidney: Nephritis, interstitial, moderate, multifocal, granulomatous, subacute with intra-sinusoidal fibrin deposition
- 2). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse
- 3). Liver, sinusoids: Fibrin deposition, mild to moderate, multifocal, random
- 4). Heart, endocardium: Hypertrophy, mild, multifocal
- 5). Spleen, ellipsoids: Fibrin deposition, mild, multifocal, acute

There are no overt lesions within peripheral nerves.

Slide 38, P2-22-2:

- 1). Heart, endocardium, spongy layer: Parasitic xenoma, mild, focal, compatible with *Loma* spp
- 2). Spleen, microvasculature: Fibrin deposition, moderate, multifocal, acute

There are no overt lesions within the liver, kidney or peripheral nerves.

Slide 39, P2-22-3:

- 1). Kidney, hematopoietic tissue: Hyperplasia, moderate, diffuse
- 2). Kidney: Nephritis, interstitial, mild, multifocal, random, necrotising and fibrinous, acute
- 3). Liver, sinusoids: Fibrin deposition, mild, multifocal, random

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

Slide 40, P2-22-4:

- 1). Liver, hepatocytes: Necrosis and atrophy, marked, multifocal to coalescing, acute with fibrin deposition
- 2). Heart, endocardium: Hyperplasia and hypertrophy (reactive), mild to moderate, multifocal
- 3). Spleen, ellipsoids: Fibrin deposition, mild, multifocal, acute
- 4). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse

There are no overt lesions within the peripheral nerves.

Slide 41, P2-22-5:

- 1). Liver, sinusoids: Fibrin deposition, moderate, multifocal, random
- 2). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse
- 3). Spleen, ellipsoids: Fibrin deposition, mild, multifocal, acute

There are no overt lesions within the heart or peripheral nerves.

Slide 42, P2-22-6:

- 1). Liver, sinusoids: Fibrin deposition, mild, multifocal, random
- 2). Kidney, hematopoietic tissue: Hyperplasia, lymphomyeloid, moderate, diffuse
- 3). Spleen, stroma: Fibrin deposition, mild, multifocal, acute

There are no overt lesions within the heart or peripheral nerves.

COMMENTS:

The multisystemic intra-sinusoidal (vascular) fibrin deposition is consistent within virtually all of the examined sections and in more severely affected animals would have contributed significantly to antemortem morbidity. The changes are consistent with disseminated intravascular coagulation (a consumptive coagulopathy) and without ancillary laboratory studies and additional history the precise pathogenesis of this condition remains unknown. Generalized septicaemia, viremia, toxins, hypoxia, nutritional and other disease entities are prime considerations. In 1 of the sections, there is a parasitic xenoma morphologically consistent with *Loma* spp. As this parasite localizes the branchial and visceral vasculature, the possibility of DIC secondary to a parasitic Vasculitis cannot be entirely discounted. If possible follow up evaluation of fresh tissue for bacterial and viral culture may be considered and trace mineral analysis of the liver may be undertaken. The endocardial hyperplasia and hypertrophy are consistent with a reactive change, secondary to persistent antigenemia.

FINAL REPORT