

CASE NUMBER: 03F-96-A2.4-52

DATE: Dec 21, 2003

**HISTOPATHOLOGY:**

Slide 65, A2.4-52-1:

1). Heart, myocardium: Hypertrophy, moderate, multifocal, with karyomegally

There are no overt lesions within the adipose tissue, liver, peripheral nerve, spleen, peripheral vasculature or kidney.

Slide 66, A2.4-52-2:

1). Heart, intramural: Myocarditis, marked, focally extensive, necrosuppurative, acute with florid intralesional bacilli

2). Spleen, ellipsoids: Histiocytosis, mild to moderate, multifocal

There are no overt lesions within the adipose tissue, liver, peripheral nerve, peripheral vasculature or kidney.

Slide 67, A2.4-52-3:

1). Heart, epicardium: Epicarditis, mild, multifocal, lymphohistiocytic, chronic

There are no overt lesions within the adipose tissue peripheral vasculature, liver, peripheral nerve, spleen, or anterior kidney.

Slide 68, A2.4-52-4:

1). Peripheral vasculature, liver, kidney, spleen and heart: Emboli, septic, marked, multifocal, acute with parenchyma necrosis

There are no overt lesions within the adipose tissue peripheral nerves.

**COMMENTS:**

In 2 of 4 slides, the multisystemic bacteria are morphologically consistent with furunculosis (*Aeromonas salmonicida*); if fresh tissue is available, follow up aerobic culture and sensitivity is recommended. In slide 1, the karyocytomegally is consistent with a cardiomyopathy. The precise cause of this condition is unknown. In farmed Atlantic salmon in British Columbia, a strain predisposition with increased ambient environmental temperatures during early life stages of development have been implicated. Heart sections within the remaining 3 slides did not feature myocardial involvement and the contribution of this condition to impaired overall stock productivity is unknown.

**\*FINAL REPORT\***