



**DATE PRESENTING CLINICAL SIGNS**

9/17/21

Chronic loose stools since spring 2021. Diet change to I/D and probiotics helped a little. Acute worsening of diarrhea and new inappetence this week. 10 lb weight loss since May 2021.

PE: tense and uncomfortable on palpation of abdomen

CBC/Chem/CPL (June and yesterday) WNL

**INTERPRETED BY**

L.D. McGill, DVM,  
Ph.D., DACVP

AUS: Apx 8cm diameter irregular, mixed echogenicity mass in R liver, caudal to GB.

Possible other variable sized nodules in rest of liver. Small intestine has altered wall layering, with a pronounced muscularis layer.

**CYTOLOGY SUBMISSION**

**PATIENT**

FNA of Liver

Heidi Moss

**OBSERVATIONS**

Liver: Submitted are large numbers of excellent videos of cells collected from the liver in Heidi. In the first set of videos, the hepatocytes demonstrate slight irregularity with many of the cells demonstrating marked vacuolization of the cytoplasm. This is characteristic of lipid in the cytoplasm of hepatocytes. There were no suggestions of malignancy in those cells. In the second set of videos, there are large numbers of cells that appear to be naked nuclei. They are scattered irregularly throughout videos. In some fields the cells are lined up and aggregated. There are scattered cells showing minimal cytoplasm.

**SPECIES**

Canine

**BREED**

Samoyed

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Liver: Hepatocellular vacuolization consistent with lipid and nodular hyperplasia with a suggestion of neuroendocrine cellular neoplasia.

**SEX**

FS

**COMMENTS**

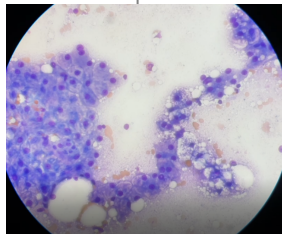
These excellent videos show multiple types of changes. There are changes that support hyperplasia and hepatocellular lipidosis. These changes may be associated with nodular hyperplasia and metabolic alterations. There are some cellular changes that support the possibility of a neuroendocrine neoplastic process. This could be an islet cell carcinoma or other neuroendocrine source. An outside possibility may be a bile duct carcinoma. Surgical biopsy may be necessary to confirm the presence and potential source for this cellularity.

**AGE**

10 years

**WEIGHT**

63 lbs



**HOSPITAL NAME**

Image showing hyperplasia on the left and lipidotic hepatocytes on the right from the liver in Heidi.

Scanvet

**The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

**REFERRING VET**

Dr. Drummond

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**INVOICE NUMBER**

70407



**DATE** L.D. McGill, DVM, Ph.D., DACVP

9/17/21  
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L.D. McGill, DVM,  
Ph.D., DACVP

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