



**DATE PRESENTING CLINICAL SIGNS**

5/4/22

History: collapse with apparent respiratory distress 4/21 evening , exam 4/22 unremarkable except for pale mucous membranes

Abnormal PE/Chem/CBC/UA Results: CBC - anemia (rbc 4.5, Hct 30) & leukocytosis ( wbc 180) with L shift Chem - alk Phos 847, ALT 248, AST 83, and slightly low TP (5.4)

**INTERPRETED BY**

Current Medications: started Prednisone 20 mg BID 4/22

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

**CYTOLOGY SUBMISSION**

FNA of Liver

**PATIENT OBSERVATIONS**

Sam Vergamini

Liver: Submitted are 7 very good videos of moderate to excellent collections of cells from the liver in Sam. The hepatocytes are present in irregular packets. The surrounding red blood cells are intermixed with the very few inflammatory cells that are neutrophils and lymphocytes. The hepatocytes are slightly irregular in size and shape with prominent vacuolization of the cytoplasm. Some of the hepatocytes are extremely vacuolated with extra lipid in the surrounding fluid. Characteristics of malignancy are not identified.

**SPECIES**

Canine

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Liver - Prominent hepatocellular vacuolization with slight irregularity of the hepatocytes suggesting nodular hyperplasia.

**BREED**

Golden Retriever

**COMMENTS**

The changes in the liver suggest metabolic liver changes which could be similar to steroid hepatopathy or other causes of lipid accumulation in hepatocytes. There are some changes that suggest the possibility of nodular hyperplasia. I cannot completely rule out the possibility of a low-grade hepatocellular adenoma, but I cannot identify changes confirming hepatocellular carcinoma. The cells in the red blood cells suggest mild inflammation and no suggestion of other infiltrating cellular changes. How these changes relate to the overt clinical signs I am unable to confirm since these changes are likely secondary.

**AGE**

10yrs

**WEIGHT**

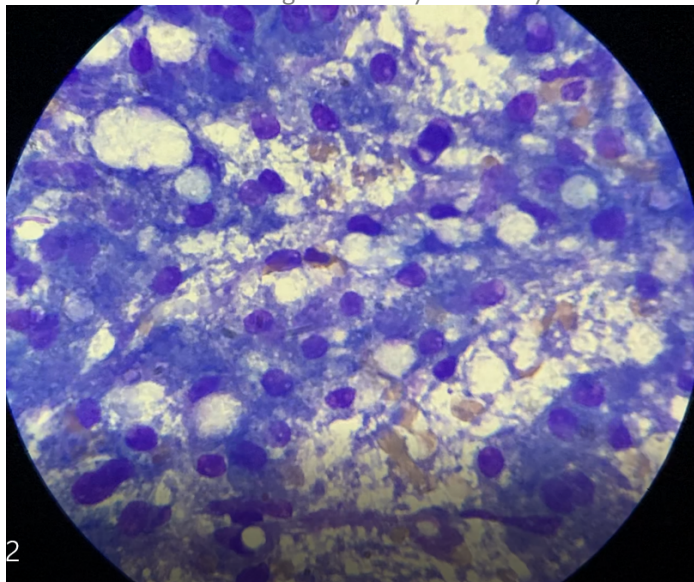
105 lbs

**HOSPITAL NAME**

The Veterinary Hospital

**REFERRING VET**

Dr. Johnson



**INVOICE NUMBER**

40516

Image shows hepatocytes with marked vacuolization and lipidosis in the liver aspirate from Sam. There is mild anisokaryosis.



**DATE**

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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.

**INTERPRETED BY**

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

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.

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

Sam Vergamini

**SPECIES**

Canine

**BREED**

Golden Retriever

**SEX**

Male Neutered

**AGE**

10yrs

**WEIGHT**

105 lbs

**HOSPITAL NAME**

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