

**DATE PRESENTING CLINICAL SIGNS**

9/23/21

Lethargic and "not herself". Weight loss, hyporexia, and vomiting. AUS done 9/17. Presented yesterday with acute onset LR lameness with knuckling of paw, suspect thromboembolic disease. Planning to start Plavix, FNA of spleen and liver first.

**INTERPRETED BY**

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

AUS findings: Splenomegaly w/micro-nodular changes and possible emerging thrombus. Minor heterogenous liver changes (diffuse). Slight, irregular duodenal thickening w/possible delayed gastric emptying.

CBC (8/31) HCT 38%; 4DX: Anaplasmosis + (originally + in 9/2020)

**CYTOLOGY SUBMISSION**

**PATIENT**

Spleen; Liver

Sadie Woodberry

**OBSERVATIONS**

**SPECIES**

Canine

Spleen: Submitted are several videos of excellent collections of cells from the spleen in Sadie. The cellularity is mixed with large numbers of cells of the nucleated red blood cells series. The series appears to be developing normally. There are scattered macrophages, some of which contain red blood cells and hemosiderin. There are scattered lymphocytes and neutrophils. Plasma cells are identified. There are no changes that support malignancy.

**BREED**

Golden Retriever Mix

Liver: Submitted are 8 videos of excellent collections of cells from the liver in Sadie. The hepatocytes demonstrate prominent granular cytoplasm with various types of pigment present. Some hepatocytes demonstrate vacuolization. There are cells in the surrounding red blood cells that suggest lymphocytes and neutrophils but they do not appear to be atypical. The lymphocytes are mainly small lymphocytes that are mature. Malignant characteristics are not identified in this collection.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SEX**

Female Spayed

Spleen - Marked extramedullary hematopoiesis with inflammation and no evidence of neoplasia.  
Liver - Hepatocellular granularity with various pigments and very mild inflammation.

**AGE**

13y

**COMMENTS**

The changes in the spleen suggest the likelihood of immune mediated anemia with many macrophages phagocytosing red blood cells. There is also hemosiderin present and there is a marked response by the regenerating red blood cells series. This could be secondary to a hemoparasites or immune mediated. There is no suggestion of malignancy or sepsis. There is a suggestion of chronic inflammation. These changes are not specific.

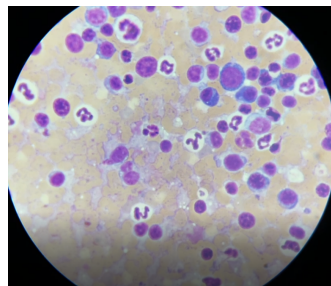
**WEIGHT**

59 lbs

The cellular changes in the liver suggest the possibility of hemolysis or nonspecific changes in the hepatocytes. There is no suggestion of malignancy or sepsis in that organ. Continued evaluation to identify a potential source for problems in Sadie is encouraged. Chronic immune mediated hemolytic disease is very possible.

**HOSPITAL NAME**

Scanvet



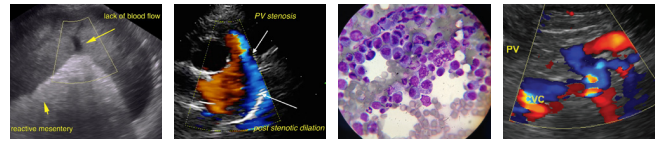
**REFERRING VET**

Dr. Ebersole

Image shows a representative collection of cells from the spleen in Sadie. There are prominent NRBCs with neutrophils and mature lymphocytes.

**INVOICE NUMBER**

602

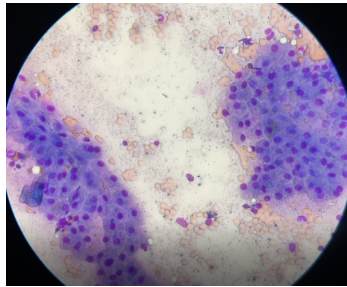


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L.D. McGill, DVM, Ph.D,  
DACVP



**PATIENT**

Sadie Woodberry

Image shows hepatocytes from the liver in Sadie. There is irregular granularity of the cytoplasm.

**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.**

**SPECIES**

Canine

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.

**BREED**

Golden Retriever Mix

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**SEX**

Female Spayed

**AGE**

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**WEIGHT**

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**HOSPITAL NAME**

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**REFERRING VET**

Dr. Ebersole

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