



**DATE** **PRESENTING CLINICAL SIGNS**  
1/25/22 Lethargy and anorexia for 2-3 weeks.  
CBC/Chem/UA/4DX: all WNL  
RADS (thorax and abdomen) WNL  
AUS: 5 cm diameter hypoechoic mass in spleen, deviates capsule. Liver has multifocal, variable sized hyperechoic lesions and target lesions.

**INTERPRETED BY**  
L.D. McGill, DVM,  
Ph.D, DACVP

**CYTOLOGY SUBMISSION**  
Liver; spleen

**PATIENT** **OBSERVATIONS**  
Bella Graber Spleen: Submitted are 5 excellent videos of excellent collections of cells from the spleen in Bella. The majority of the cells in this collection are lymphoid cells. Large numbers of those cells are small lymphocytes. There are scattered large irregular atypical lymphoid cells. These cells have nuclei that are 4 to 6 times the size of red blood cells and they have prominent nucleoli. These cells are present in about 20% of the lymphoid cellularity. There are scattered neutrophils and nucleated RBCs throughout the splenic collection.

**SPECIES** Liver: Submitted are 11 excellent videos of excellent collections of cells from the liver in Bella. There are good collections of hepatocytes that demonstrate hepatocellular vacuolization and extensive granularity. There are aggregates of cells scattered throughout that include spindle cells interspersed with hemosiderin pigment. These spindle cells are packeted and irregular. The cellularity in the red cell collection consists of neutrophils and lymphocytes but no suggestion of neoplasia.

**BREED**  
Golden Retriever

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SEX** Spleen - Consistent with lymphoid nodular hyperplasia with a potential of early lymphoma.  
Liver - Focal aggregates of fibrosis with hemosiderin pigment and degenerate debris and focal hepatocellular vacuolization and granularity

Female Spayed

**COMMENTS**

**AGE** The cellularity in the spleen supports a marked lymphoid hyperplastic nodule with some atypical lymphoid cells. This could suggest the possibility of early lymphoma but there are inadequate numbers of those cells to make the diagnosis in these videos. Further evaluation can include immunophenotyping these cells but this may or may not be beneficial. Continued evaluation of other areas that might be lymphoma would be encouraged.

**WEIGHT** The changes in the liver support metabolic liver disease with areas of probable vacuolar hepatopathy. There is no suggestion of neoplasia. The fibrosis suggests past chronic irritation in the liver. The cause for that change is not identified. I am unable to confirm neoplasia or sepsis in either organ but I am suspicious of early high-grade lymphoma in the spleen. Splenectomy may be required to confirm that diagnosis. Further evaluation of other organs may also add to that potential diagnosis. A guarded prognosis is warranted since we do not know a cause for all of these various irregular cells and they are not present in the liver. I cannot rule out early cirrhosis in the liver but the chemistry results do not support that.

**HOSPITAL NAME**  
Scanvet

**REFERRING VET**

Dr. Ebersole

**INVOICE NUMBER**

658



**DATE**

1/25/22

**INTERPRETED BY**

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

**PATIENT**

Bella Graber

**SPECIES**

Canine

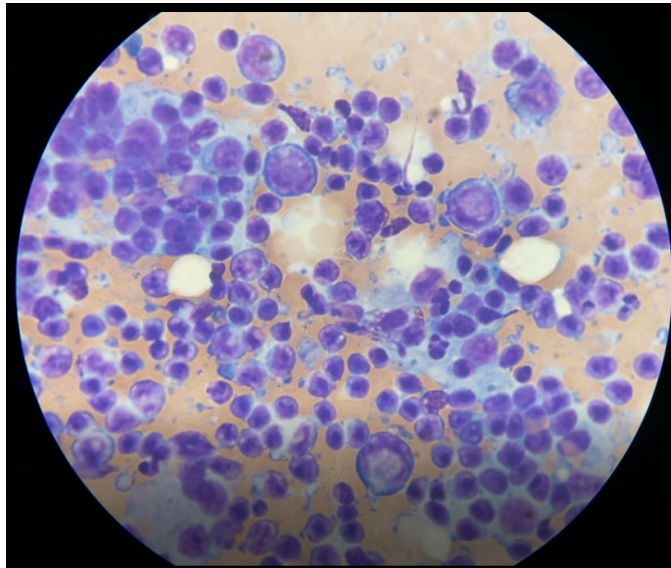


Image shows a group of lymphoid cells collected from the spleen in Bella. Note the large cells but large numbers of small lymphocytes.

**BREED**

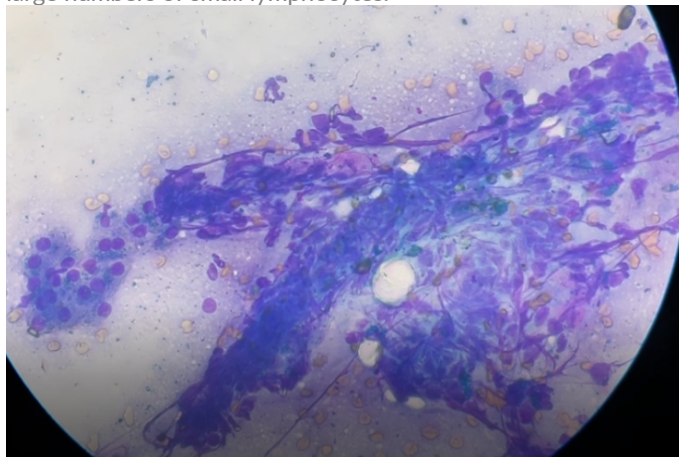
Golden Retriever

**SEX**

Female Spayed

**AGE**

13y



**WEIGHT**

61lbs

Image shows some aggregates of spindle cells and some hepatocytes collected from Bella. Pigment is prominent.

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.

**HOSPITAL NAME**

Scanvet

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.

**REFERRING VET**

Dr. Ebersole

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

**PATIENT**

Bella Graber

**SPECIES**

Canine

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Golden Retriever

**SEX**

Female Spayed

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