



DATE PRESENTING CLINICAL SIGNS

8/11/22

History: Doing well overall and acting herself. Ultrasound was determined based off bloodwork findings of consistent Increased WBC and retic and NRBC in bloodwork. Liver values have been improving since being off of prednisone since April of 2022 for IVDD. Went on a zeniquin on May 25 2022 fro elevated WBC and no improvement.

INTERPRETED BY

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

Currently on Galliprant 20mg SID for arthritis in HL. U/S findings:
The spleen revealed a focal, hypoechoic nodule that measured 1.5 cm with mild disruption of architecture.

PATIENT

Lucy Perez

Overweight, Reticulocytes 190 (10 - 110 K/ μ L) Neutrophils 14.359(2.94 - 12.67 K/ μ L) Bands 173 (0 - 170 /uL) Nucleated RBC 9 (0 - 2 per 100 WBC) Polychromasia SLIGHT Anisocytosis SLIGHT Potassium 3.9 (4.0 - 5.4 mmol/L) AST 15 (16 - 55 U/L) ALP 480 (5 - 160U/L) Lipase 256 (0 - 250 U/L)

CYTOLOGY SUBMISSION

SPECIES

Canine

FNA of Spleen

BREED

Chihuahua Mix

OBSERVATIONS

Spleen: Submitted are 2 excellent videos of moderate to excellent collections of cells from the spleen in Lucy. The cellularity is mixed in many of the fields. There are neutrophils and lymphocytes, but the majority of the cells are of the nucleated RBCs series. There are scattered quite large cells. Scattered cells with granular cytoplasm are identified. The nucleated RBCs are proliferating and include mitotic figures in cells that are not usually represented in hematopoietic tissue. The cellularity consists largely of nucleated RBCs with a mixture of other cells.

SEX

FS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Spleen - Marked hematopoietic tissue suggesting extra medullary hematopoiesis and a hematopoietic nodule or possible early erythroleukemia.

AGE

12y

COMMENTS

The cellularity is definitely leaning towards hematopoietic tissue. The concern that I have is the large number of mitotic figures in that series. This could be an early area of erythroleukemia or it could be a localized area of nodular hyperplasia with hematopoietic tissue. Exploratory and splenectomy will be required to confirm the process in the spleen. There is also a potential of an immune mediated anemia with the hematopoietic tissue responding. Continued evaluation of Lucy is certainly in order. The clinical signs suggest normalcy in Lucy but the early observations and CBC results could suggest early problems in the spleen. Consultation with an oncologist and discussion with the owner as to the next steps is encouraged. Splenectomy and biopsy would be on the top of my list for the next step.

WEIGHT

17.4#

HOSPITAL NAME

Shohola

REFERRING VET

Dr. Gramazio

INVOICE NUMBER

40579



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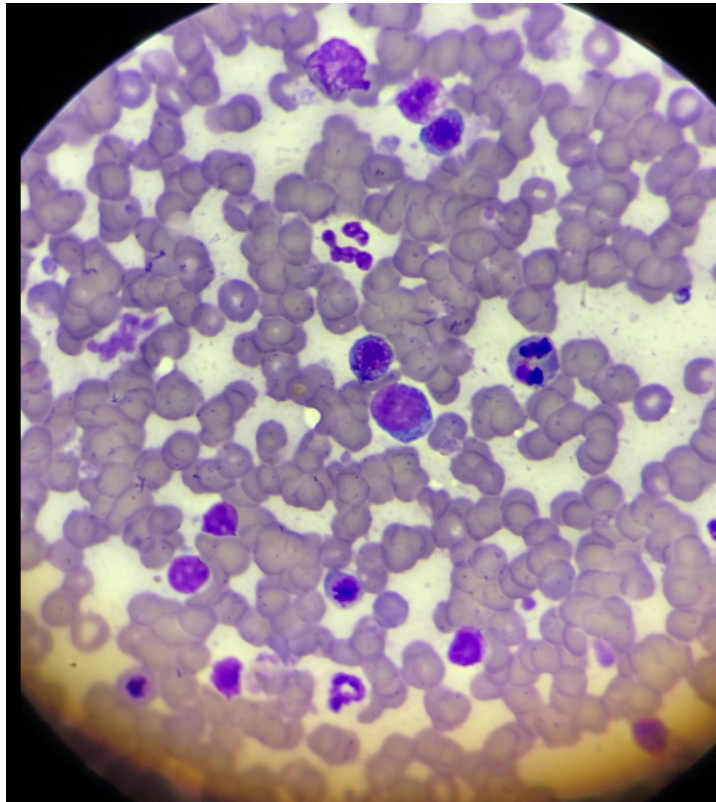


Image shows cells collected from the spleen in Lucy. Note the mitotic figure in the central right. The majority of the cells are from the erythroid series in this image.

AGE

12y

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.

WEIGHT

17.4#

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.

HOSPITAL NAME

Shohola

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