

DATE PRESENTING CLINICAL SIGNS

2/11/2022

Weight loss, fever, anemia. FNA performed of both spleen and liver. Concern for possible round cell neoplasia vs. other.

INTERPRETED BY CYTOLOGY SUBMISSION

U/S-guided FNA of both liver and spleen.

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

OBSERVATIONS

Liver: Submitted are large numbers of images and one video of cells collected from the liver in Lefty. The cells are rather consistent in all of these images and videos. There are round cells with prominent cytoplasm. The nuclei are eccentric in most cases. There is marked variation in size and shape of nuclei and the cells. Mitotic figures are observed. There are multinucleated cells included in the collection. There are scattered neutrophils, lymphocytes and macrophages with foamy cytoplasm.

Spleen: Submitted are large numbers of images and 2 videos of cells collected from the spleen in Lefty. The cellularity is mixed with large numbers of nucleated red blood cells of all series. There are scattered neutrophils and lymphocytes. There is even a mast cell or two. There are some lymphoid cells that appear to be slightly irregular. The cellularity is not as consistent as present in the liver.

PATIENT

"Lefty" Ziogehlem

SPECIES

Canine

BREED

Portugese Water Dog

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Liver - Consistent with round cell neoplasia such as plasma cell myeloma or lymphoma.

Spleen - Prominent extra medullary hematopoiesis with hemosiderosis and some large irregular cells.

SEX

Male neutered

COMMENTS

The cellularity in the liver strongly supports a round cell neoplasm. In some areas the cellularity has a good suggestion of plasma cell myeloma. In other areas I am more concerned about lymphoma. In either instance this is some type of neoplastic process. If chemotherapy is contemplated, then immunophenotyping of the cells to confirm the specific cell type may be beneficial for prognosis. The slides can be submitted for PCR testing or new slides that are not stained can be submitted for immunocytochemistry staining. Flow cytometry can be beneficial but will require a repeat collection of cells prior to submission to the laboratory. Contacting the laboratory to confirm how to submit flow cytometry samples is encouraged. I am unable to confirm that there are neoplastic cells in the spleen but my suspicion is that they are present in irregular patterns. They are not the only cell type which is quite prominent in the liver. An unfavorable prognosis is warranted in my opinion.

AGE

11-year-old

WEIGHT

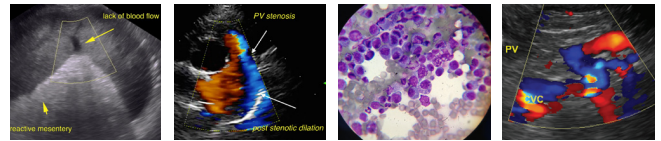
58 lbs

HOSPITAL NAME

Franklin Lakes Animal
Hospital

REFERRING VET

Dr. Alan Pomerantz



DATE

2/11/2022

INTERPRETED BY

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

PATIENT

"Lefty" Ziogehlem

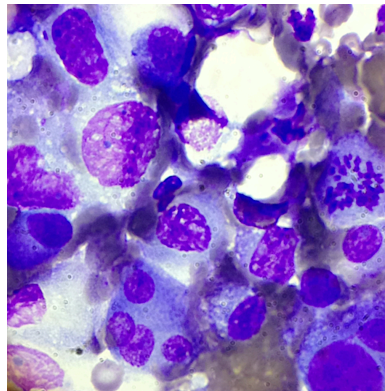


Image above shows a group of cells collected from the **liver** in Lefty. Note the mitotic figure on the right side and the nuclear pleomorphism.

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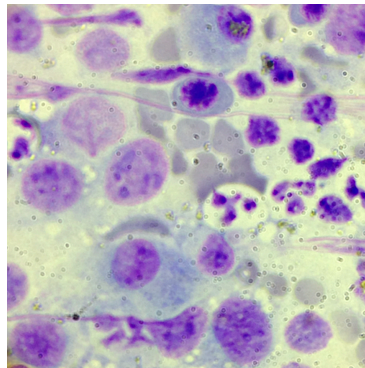


Image above shows the mixed cell collection in the spleen from Lefty. There are a couple of large irregular cells in the smear.

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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.

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

Franklin Lakes Animal
Hospital

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REFERRING VET

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