



DATE PRESENTING CLINICAL SIGNS

9/11/22

3 week history lethargy, decreased appetite. Presented as transfer from primary care to ER today for further evaluation of possible splenic mass and anemia.
PCV 18%, TP 5.7; regenerative anemia

INTERPRETED BY

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

-coags normal
-PLT 45K (confirmed w manual smear)
-ultrasound showed spleen containing many variably sized hypo echoic nodules (report pending), some mesenteric nodules ; no free fluid in abdomen or thorax, no melena.
-thoracic radiographs nsf

CYTOLOGY SUBMISSION

PATIENT

Spleen

Orion Strom

OBSERVATIONS

Spleen: Submitted are 3 excellent videos of excellent collections of cells from the spleen in Orion. The cellularity consists of almost all round cells. The round cells are large lymphoid cells with bluish gray cytoplasm. The nuclei are 4 to 8 times the size of red blood cells. There are scattered small mature lymphocytes and neutrophils. The cytoplasm of the lymphoid cells contain vacuoles and an occasional phagocytosed red blood cell. The nuclei are quite irregular with scattered nucleoli. There are scattered macrophages in the collection. The lymphoid cells are demonstrating atypia. There are binucleated cells and rare mitotic figures.

SPECIES

Canine

BREED

Bernese Mountain Dog

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Spleen - Large numbers of atypical lymphoid cells consistent with high-grade lymphoma.

COMMENTS

The cellularity is characteristic of an aggressive lymphoma in Orion. There are many cells that support secondary inflammation but there are adequate numbers of lymphoid cells with atypia to support lymphoma. Degeneration and inflammation are secondary. Other organs are likely involved. 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. An unfavorable prognosis is warranted with these aggressive lymphoid cells in the collection from Orion.

SEX

Male Neutered

AGE

7y

WEIGHT

41kg

HOSPITAL NAME

Animal Emergency Care

REFERRING VET

Dr. Loeffler

INVOICE NUMBER

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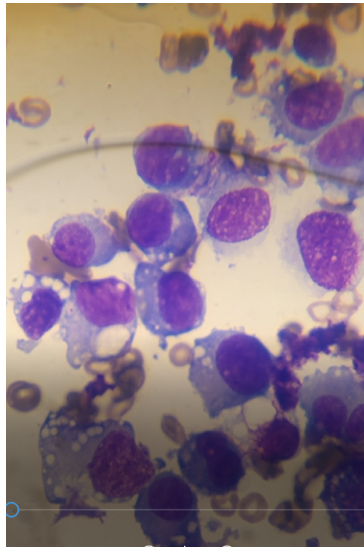


Image shows a group of atypical lymphoid cells collected from the spleen in Orion. Note the very large nucleoli.

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.

L.D. McGill, DVM, Ph.D., DACVP
8288 Top of the World Drive
Cottonwood Heights, UT 84121
ldmcgill.vetpath@gmail.com
cell: 801-865-1220