



DATE PRESENTING CLINICAL SIGNS

5/10/23

Elevated Liver Enzymes ~2 Months Ago. Dog feeling fine. Recheck today shows increased ALT and ALP from before.

U/S: Liver appears to have benign nodular/hyperplastic changes.

ALT: 341

ALP: 1600

INTERPRETED BY

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

CYTOLOGY SUBMISSION

Liver

OBSERVATIONS

PATIENT

Shelby Bouquin

Liver: Submitted are 7 excellent videos of excellent collections of cells from the liver in Shelby. There are good collections of hepatocytes in all of the videos and most of the fields. There are scattered inflammatory cells surrounding the hepatocytes and interspersed with the hepatocytes. Some of these cells appear to be lymphocytes and others are neutrophils. Rare macrophages are identified. The hepatocytes demonstrate mild vacuolization and granularity. Malignant characteristics are not identified.

SPECIES

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Liver - Mild diffuse hepatocellular vacuolization and granularity with mild chronic lymphocytic and suppurative hepatitis

BREED

Border Collie

COMMENTS

The excellent videos demonstrate hepatocellular changes that are not specific for any process. There are changes that suggest lymphocytic and suppurative hepatitis. This could be the result of inflammation ascending up the biliary tree. This is often a change which can cause secondary lesions in the liver as a result of pancreatitis or enteritis. There is no suggestion of malignancy or sepsis. The lymphocytes are more prominent in some videos than others. I wonder about the possibility of lymphoma but cannot make that diagnosis from these collections. This may be a case where the non biopsy blood test for neoplasia could be beneficial. At this time I also wonder about the possibility of increased copper levels in the hepatocytes. This will require a liver biopsy to confirm. Continued evaluation for other problems is encouraged. There is also a possibility that this liver is an example of hepatocellular membrane leakage because the hepatocytes are getting more mature and not because of any pathologic process. Continued monitoring and evaluation for other clinical processes is encouraged. A guarded prognosis is warranted since the specific source of increased liver enzymes has not been confirmed.

AGE

10y

WEIGHT

45lbs

HOSPITAL NAME

Franklin Animal Clinic
Inc.

REFERRING VET

Dr. Doverspike

INVOICE NUMBER

947



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

PATIENT

Shelby Bouquin

SPECIES

Canine

BREED

Border Collie

SEX

Female Spayed

AGE

10y

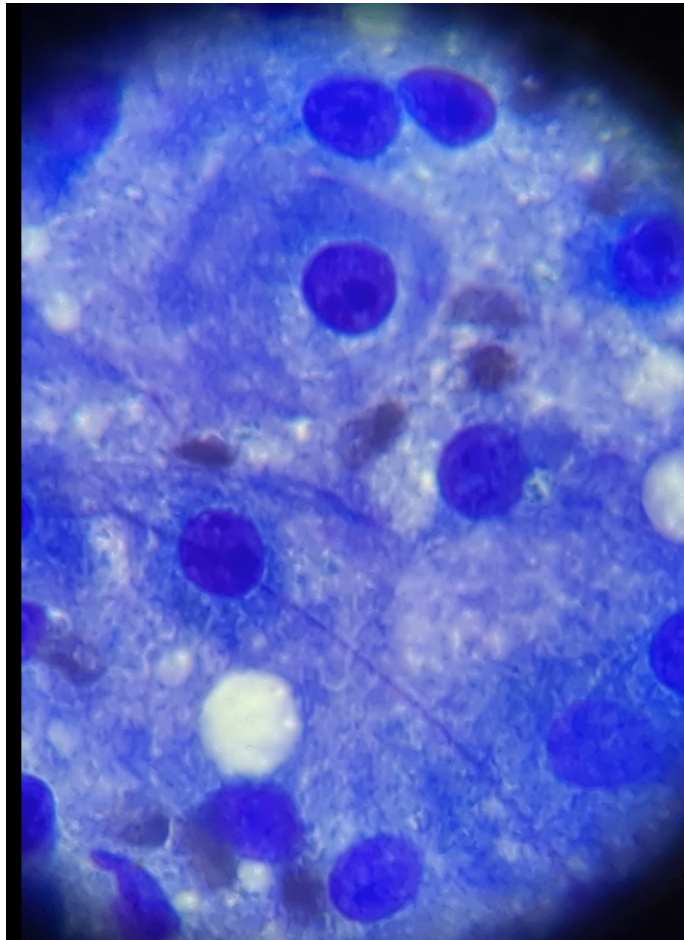


Image shows a group of hepatocytes collected from the liver in Shelby. Note the vacuolization of the cells.

WEIGHT

45lbs

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

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Inc.

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