



PATIENT

Leo Allen

SPECIES

Canine

BREED

Golden Retriever Mix

SEX

Neteured male

AGE

10 years

WEIGHT

57 lbs

INTERPRETED BY

Dr. Lawrence McGill,
DVM,Ph.D.,Diplomate,
ACVP

IMAGING PERFORMED BY

Nick Pizzemento

HOSPITAL NAME

Central VH

REFERRING VET

Dr. Anna St Sir

INVOICE

77987

DATE

5/26/26

PRESENTING CLINICAL SIGNS

History: Chronic diarrhea. Bilaterally enlarged adrenal glands, liver is enlarged coarse with hypoechoic nodules.

Abnormal PE/Chem/CBC/UA Results: mild elevation ALT and ALP

CYTOLOGY SUBMISSION

FNA of the liver was submitted

OBSERVATIONS

Liver: Submitted are 11 excellent videos and 2 excellent images of cells collected from the liver in Leo. The hepatocytes are granulated and vacuolated for the most part with scattered hepatocytes demonstrating marked lipid accumulation. There is scattered pigment but it is likely secondary pigment. The surrounding red blood cells include a mixture of inflammatory cells that are neutrophils and lymphocytes. In some areas the hepatocytes suggest the possibility of hyperplasia but no malignant characteristics are identified.

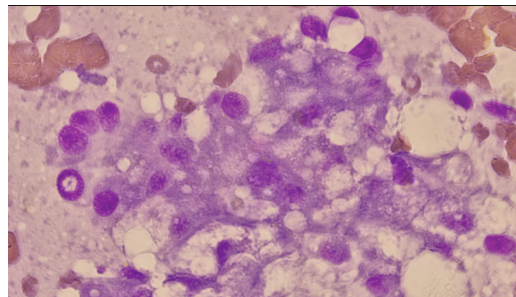
INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

Liver - Diffuse hepatocellular vacuolization with focal areas of marked lipidosis with changes suggestive of nodular hyperplasia.

COMMENTS

The cellularity in this collection supports a metabolic liver change which is likely secondary. With the focal areas of lipidosis, I'm concerned about the potential of Cushing's disease in Leo. Multifocal lipidosis is a common secondary liver change in steroid hepatopathy. The vacuolar changes could be secondary to pancreatitis or Cushing's or other changes. There is no suggestion of malignancy and the inflammation is minimal and likely secondary. I certainly cannot rule out pancreatitis in this case. A guarded prognosis is warranted since these changes are likely secondary and not primary and support a metabolic liver disease.

CYTOLOGY IMAGE



This is an image of hepatocytes demonstrating vacuolization and lipidosis collected from the liver in Leo. Note the large lipid vacuoles.



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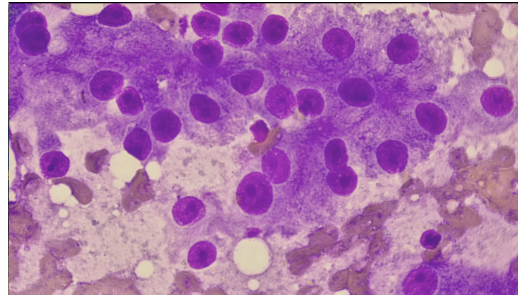
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This is an image of hepatocytes demonstrating possible changes suggestive of nodular hyperplasia. There is a very mild variation of nuclear structure in this collection from Leo.

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. 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

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