



DATE PRESENTING CLINICAL SIGNS

2/10/23

On labwork, ALP is trending upward (Was 215 12/8/22, now 293) and ALT is now elevated on most recent bloodwork (132)- Via Idexx. Abdominal ultrasound performed-Liver is enlarged and nodular. Sampling performed. Right Adrenal mass present.

INTERPRETED BY

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

CYTOLOGY SUBMISSION

Liver

OBSERVATIONS

PATIENT

Charlotte Russell

Liver: Submitted are 6 excellent videos of excellent to moderate collections of the hepatocytes from the liver in Charlotte. The hepatocytes demonstrate vacuolization and granularity. There are scattered granules in some of the hepatocytes with irregular color. Scattered neutrophils and lymphocytes are present in the surrounding red blood cells. Malignant characteristics are not identified.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

Canine

Liver - Hepatocellular granularity and vacuolization with some pigment (see comments)

COMMENTS

The cellularity includes good collections of hepatocytes with evidence of vacuolization and some granular material. I wonder about the possibility of copper in the liver. The vacuolization suggests the possibility of metabolic liver changes secondary to other problems. This could include steroid hepatopathy or the possibility of endotoxic alteration from absorption of endotoxins from the intestine or pancreas. There is no suggestion of malignancy or sepsis. Nodular hyperplasia is possible but very likely the nodular changes are due to vacuolization of hepatocytes. Continued monitoring for problems in other organs such as the pancreas or intestine and other potential metabolic diseases or hepatocellular biopsies will be required to identify the underlying process. This may be required if further evaluation for copper is desired. A guarded prognosis is warranted since the underlying cause is not identified.

BREED

Lab

SEX

Female Spayed

AGE

11y

WEIGHT

84 lbs

HOSPITAL NAME

Rotterdam Veterinary
Hospital

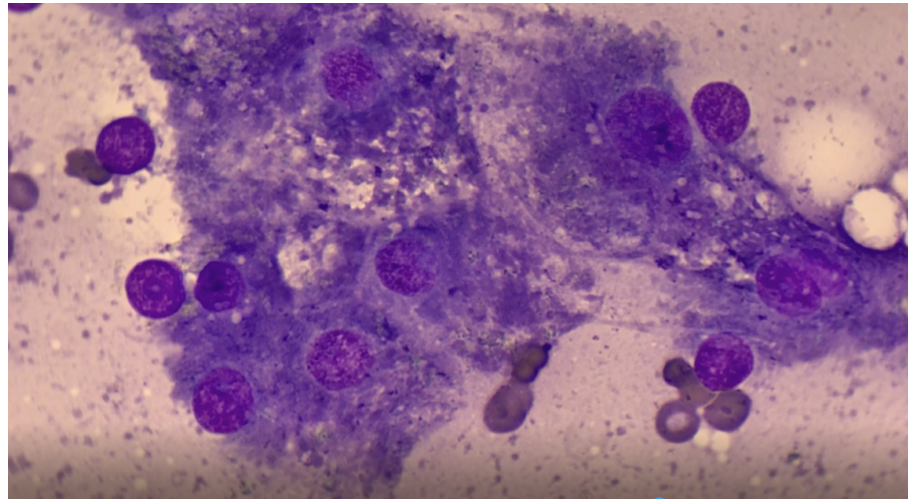


Image shows hepatocytes with vacuolization and some granularity in the liver aspirate from Charlotte. There is slight anisokaryosis in the hepatocytes.

REFERRING VET

Dr. St. Sir

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.

INVOICE NUMBER

890

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



DATE can be of any further assistance please contact me.

2/10/23

INTERPRETED BY

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