



DATE PRESENTING CLINICAL SIGNS

2/15/23 Patient presented 2/15/23 for sedated radiographs. Bloodwork showed significant liver enzyme elevations (^Albumin, ^ALT, ^AST, ^ALP, ^GGT). Abdominal ultrasound performed. On ultrasound liver enlarged, rounded and hyperechoic. Both adrenal glands appear normal in size. Patient not symptomatic at home. Sample taken via ultrasound guided aspirate.

INTERPRETED BY

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

CYTOLOGY SUBMISSION

FNA of Liver

PATIENT

Reggie Herrick

OBSERVATIONS

Liver: Submitted are 7 excellent videos of very good collections of hepatocytes from the liver in Reggie. The hepatocytes demonstrate vacuolization and some granularity. The granularity is irregular and scattered throughout hepatocytes. Some of the granularity has the appearance of lipofuscin but others have the suggestion of different types of material. The vacuolar change in the hepatocytes is not consistent. The hepatocytes demonstrate mild anisokaryosis. The surrounding blood includes very few inflammatory cells.

SPECIES

Canine

BREED

Daschund

SEX

Male Neutered

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Liver - Mild hepatocellular vacuolization and granularity with nonspecific pigment.

COMMENTS

AGE The cellularity demonstrates metabolic changes which include vacuolization of hepatocytes and slight variation of the nuclei which may suggest nodular hyperplasia. Some of the granularity supports lipofuscin pigment but other granularity could be copper. Further evaluation for copper will require follow-up biopsy with collection of adequate quantity of hepatocytes to evaluate for copper load. In this instance I am concerned about this being an older liver and that the cell membranes are likely leaking enzymes resulting in the high liver enzyme results. Further evaluation for copper levels in the liver again will require adequate biopsy material. A guarded prognosis is warranted since the underlying process is not confirmed.

WEIGHT 21#

HOSPITAL NAME

Rotterdam Veterinary
Hospital

REFERRING VET

Dr. Anna St.Sir

INVOICE NUMBER

40659



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AGE

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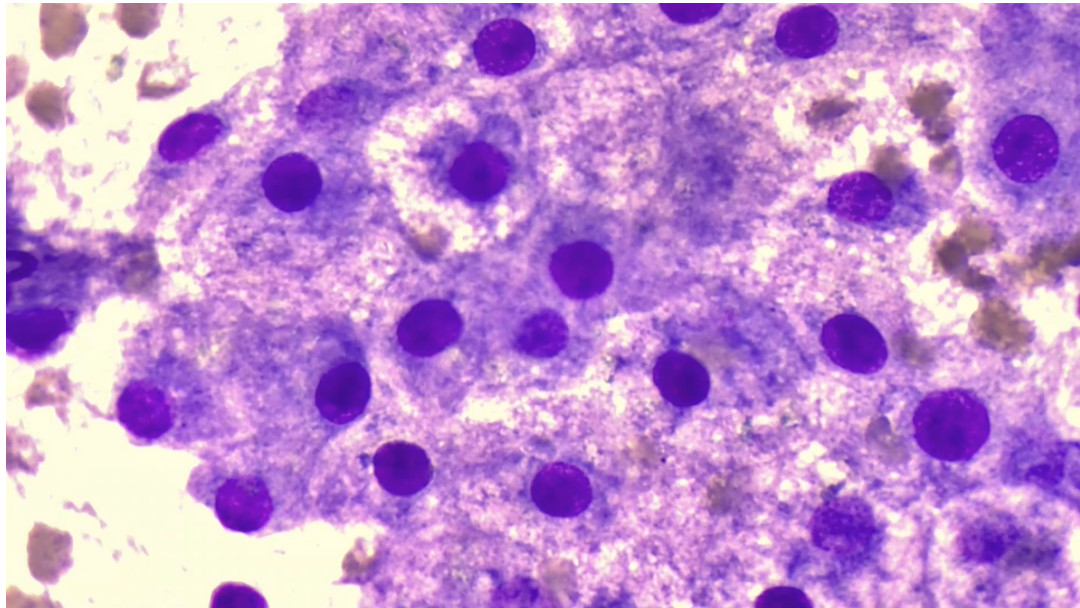


Image shows a group of hepatocytes with slight vacuolization and mild anisokaryosis collected from Reggie. There is slight anisocytosis also.

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.

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