



PATIENT

Charlie Patel

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

11 Years 8 Months

WEIGHT

12.8 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Eric Lindquist

HOSPITAL NAME

Ringwood Animal
Hospital

REFERRING VET

Dr. Wilkes

INVOICE

71813

DATE

11/14/25

PRESENTING CLINICAL SIGNS

FNA of liver nodule seen on last ultrasound
Abnormal PE/Chem/CBC/UA Results: BUN (38) ALB(2.5) ALP (395) PLT Count 618k HCT 50.8%

CYTOLOGY SUBMISSION

Liver.

OBSERVATIONS

Submitted are 7 excellent videos of cells collected from the liver in Charlie. The hepatocytes demonstrate marked vacuolization to mild vacuolization. There are no changes in the hepatocytes that support malignant characteristics but there certainly could be nodular hyperplasia. The surrounding red blood cells where evaluated include scattered neutrophils and rare lymphocytes. Malignant characteristics are not suggested in any of the cells.

INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

Moderate to severe hepatocellular vacuolization and possible lipidosis with probable nodular hyperplasia.

COMMENTS

The cellularity collected with these excellent videos consists of marked vacuolization of hepatocytes which suggests the likelihood of steroid hepatopathy. As you well know, this could be the result of steroid therapy or possibly endogenous steroids. There was no suggestion of malignancy or sepsis. The number of inflammatory cells in the surrounding red blood cells are within normal limits with respect to whole blood. There was no suggestion of neoplasia in the hepatocytes although nodular hyperplasia easily could be a part of the process. These types of changes are likely secondary to other problems in Charlie and thus continued monitoring for other disease processes is encouraged. A guarded prognosis is warranted since these changes are likely secondary and not primary.

CYTOLOGY IMAGE

Below is an image of hepatocytes demonstrating the prominent vacuolization in the hepatocytes and the possibility of nodular hyperplasia in the liver cells collected from Charlie.



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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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