



PATIENT

Mabel Hari

SPECIES

Canine

BREED

Mixed

SEX

Female

AGE

13 Years

WEIGHT

24.1 kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Iftikhar Raza

HOSPITAL NAME

Pawsitive Veterinary
Clinic Dubai Silicon
Oasis

REFERRING VET

Dr. Iftikhar Raza

INVOICE

71860

DATE

11/16/25

PRESENTING CLINICAL SIGNS

13 years old female spayed, mixed breed dog presented for a geriatric exam. Ultrasound examination revealed heterogeneous parenchyma of spleen, nodular lesions present in the right limb of pancreas was observed. Fine needle aspiration of liver was done and submitted for evaluation

CYTOLOGY SUBMISSION

Liver.

OBSERVATIONS

Submitted are 67 good images of cells collected from the liver in Mabel. There are excellent collections of hepatocytes which demonstrate slight vacuolization. There are scattered aggregates of cells that have minimal cytoplasm or slightly bluish gray cytoplasm. The cytoplasm is minimal in these cells and the nuclei are variable in size and shape. The hepatocytes demonstrate mild vacuolization and granularity. There is some pigment in scattered hepatocytes that appears to be hemosiderin or hematoidin. There are minimal numbers of nucleated cells in the surrounding red blood cells.

INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

Packets of irregular cells suggesting neuroendocrine cellularity with hepatocellular vacuolization and granularity.

COMMENTS

The packets of irregular cells strongly suggest neuroendocrine cellularity and I am concerned about the possibility of a metastatic neuroendocrine tumor including the potential of an islet cell carcinoma. There are other forms that could also involve the liver. The hepatocytes appear to be responding secondarily with vacuolization. The granular material could be from hemosiderin or hematoma collecting in the hepatocytes from red blood cell degeneration. There is no suggestion of malignancy in the hepatocytes although there could be mild nodular hyperplasia. The major change appears to be these irregular cells that suggest neuroendocrine cells and possible metastasis to the liver. This would suggest a guarded to unfavorable prognosis until the source of the cells can be confirmed.

CYTOLOGY IMAGE

The image below demonstrates a group of cells that have the appearance of neuroendocrine cells collected from the liver in Mabel. Note the minimal cytoplasm and where present slight bluish gray cytoplasm.



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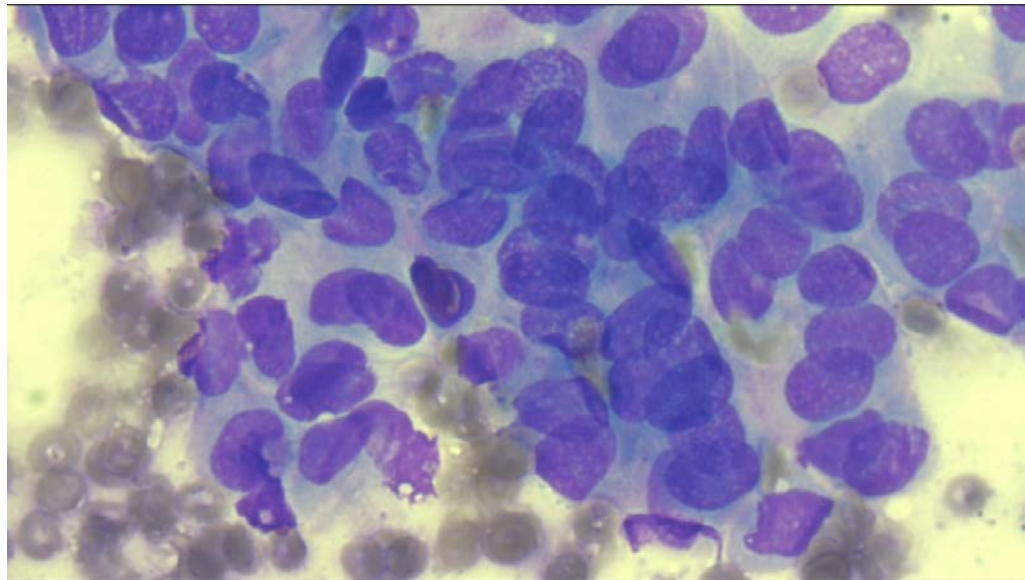
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The image below demonstrates a group of hepatocytes with slight vacuolization of the cytoplasm in the sample collected from Mabel. Note how the cells in the first image are different from these hepatocytes.

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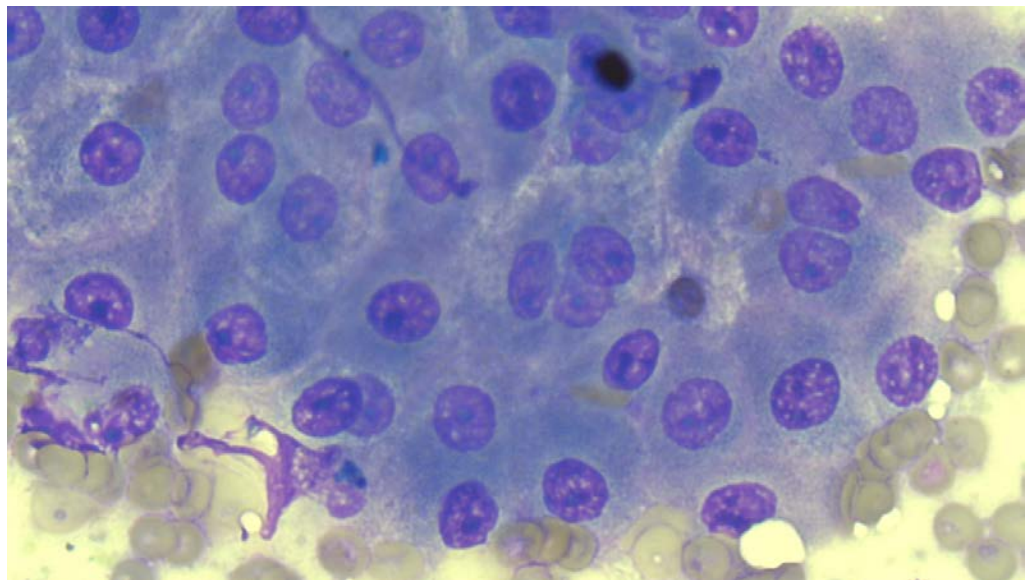
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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 Cell: 801-865-1220 Ldmcgill.vetpath@gmail.com