



DATE PRESENTING CLINICAL SIGNS

9/6/22

Cyto-Liver. u/s findings: The liver revealed a complex mixed echogenic expansive 6.0 cm mass occupying the right liver and extending dorsally, enveloping the vena cava. The mass also impinged upon the diaphragm. The remainder of the liver revealed increased portal markings and hyperechoic lipogranulomatous type nodules. The liver mass may not be a functional issue or causing any clinical signs, yet it is expansive. Likely carcinoma.

INTERPRETED BY

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

CYTOLOGY SUBMISSION

FNA of Liver-Abdominal Mass

PATIENT

Tiger Fehon

OBSERVATIONS

Abdominal mass: Submitted are 11 excellent videos of minimal to moderate collections of cells from the abdominal mass in Tiger. In most of the videos, the cellularity is mixed. There are clumps of cells that demonstrate a well-organized pattern that appear to be superficial mesothelial cells. These sheets can be interpreted as epithelial sheets, but I think they are mesothelial cells in this collection. The majority the cells are inflammatory cells including neutrophils, macrophages, and rare lymphocytes. There is some smudge debris with irregular aggregates of small structures that appear to have some internal structure. This causes concern about the possibility of some type of organism in this collection. I did not identify any evidence of malignant characteristics in the videos available to evaluate.

SPECIES

Feline

BREED

DSH

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Abdominal mass - Pyogranulomatous inflammation with apparent necrosis and prominent packets of mesothelial cells. (see comments)

SEX

Male Neutered

COMMENTS

In comparing the cellularity from the earlier report, in my opinion, the IDEXX pathologist was interpreting sheets of mesothelial cells as epithelial cells. They were not certain that those cells were malignant, and I agree that they are not. There is certainly some chronic inflammation which was described. This chronic inflammation appears to be the major process in my opinion. There are structures in the attached photograph that cause concern about some type of organism. They have some characteristics of toxoplasma but generally those organisms are located intracellularly. These structures are not. I'm concerned about some type of intestinal contamination or some type of organism that I cannot identify in the smears. They have many structures that suggest protozoal organisms. Histoplasma organisms should also be considered. I originally thought that they were platelets but the more I have evaluated the structures I do not think that is the case. Probably the only means of identifying what this pathologic process will be exploratory surgery and biopsy. At this time with the pictures submitted from the earlier evaluation and the videos I was able to evaluate, I cannot confirm malignancy. The concern is that I cannot completely rule out malignancy since the minimal numbers of cells may or may not be representative. If I am correct, then treatment with anti-inflammatory agents along with antibiotics may decrease the size of the mass but this is somewhat speculative.

AGE

14y

WEIGHT

7.5#

HOSPITAL NAME

Rockaway Animal
Hospital

REFERRING VET

Dr. Maniar

INVOICE NUMBER

40594



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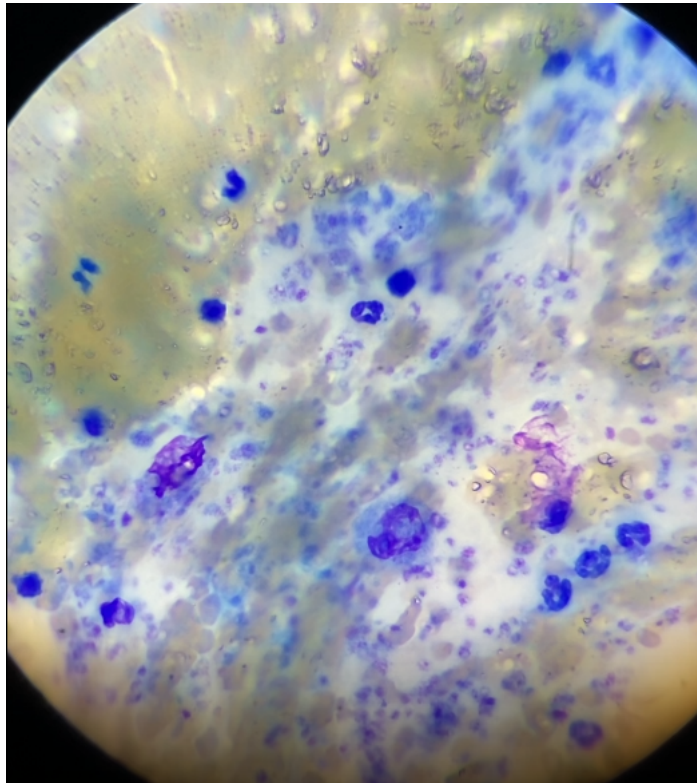
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This image shows macrophages and neutrophils collected from the abdominal mass in Tiger. The most interesting structures in this image are the small structures scattered throughout.

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.

L.D. McGill, DVM, Ph.D., DACVP
8288 Top of the World Drive
Cottonwood Heights, UT 84121
ldmcgill.vetpath@gmail.com
cell: 801-865-1220