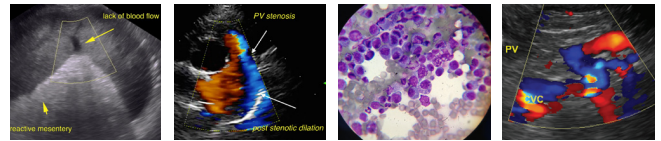




DATE	PRESENTING CLINICAL SIGNS
9/27/2021	Weight loss, not eating, difficulty getting up and panting. On Prednisone and Doxycycline since 9/24 (Friday) pending availability of AUS and FNA. Has improved and is brighter. Ulcerated mammary mass on R mid to caudal area, apx 6" x 4", area of ulceration apx. 2" x 1".
INTERPRETED BY	Abnormal PE/Chem/CBC/UA Results: PE (9/24/21) T- 105, HR 200, pre-existing mammary masses, pale mm. Hct 37%, previously 44% on 9/1. WBC ct 19,310, Neut 17,150. AUS: splenomegaly with nodular changes, few hypoechoic areas in liver.
L.D. McGill, DVM, Ph.D, DACVP	CYTOLOGY SUBMISSION
	U/S-guided FNA of liver and spleen, along with impression smear of ulcerated mammary mass.
PATIENT	OBSERVATIONS
Nala Marquette	Liver: Submitted are large numbers of videos collected from the liver in Nala. The videos include a mixture of cells. The hepatocytes demonstrate granularity with vacuolization. There are moderate to large numbers of neutrophils in the surrounding tissue associated with red blood cells. Malignant characteristics are not identified. There are some lymphocytes but they appear to be small to intermediate.
SPECIES	Spleen: Submitted are large numbers of cells collected from the spleen in Nala. The cells are mixed in many of the fields. They include neutrophils with extramedullary hematopoiesis and prominent plasma cells. There are several fields that demonstrate large numbers of irregular atypical lymphoid cells. These cells have large nuclei that are 4 to 6 times the size of red blood cells with prominent nucleoli. There is bluish gray cytoplasm. This causes concern about early lymphoma in the spleen.
Canine	Mammary mass: Submitted are videos of the cells collected from the impression smear on the mammary gland tissue. There are massive numbers of neutrophils as would be expected for an ulcerated mass. There are occasional epithelial cells with a very few clumps but these are inadequate to suggest any diagnosis.
BREED	
Golden Retriever	
SEX	
Female spayed	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
AGE	Liver - Hepatocellular vacuolization and granularity with a suggestion of secondary suppurative inflammation.
12-year-old	Spleen - Chronic suppurative splenitis with focal aggregates of cells suggesting early high-grade lymphoma.
WEIGHT	Mammary mass - Severe suppurative inflammation on the surface with a very few cells suggesting a proliferative process.
72 lbs	COMMENTS
HOSPITAL NAME	The changes in the liver suggest secondary suppurative inflammation with secondary metabolic change. There is no suggestion of malignancy in the liver tissue either in hepatocytes or in other associated cells. With what we have to evaluate there appears to be a secondary change. You know me, always keep looking for pancreatitis and enteritis.
Scanvet	Spleen: The changes in the spleen are mixed. There are areas in the spleen that appear to be due to inflammation and possibly antigenic response since there are plasma cells. There are nucleated RBCs. There are some fields that suggest an increased number of atypical lymphoid cells causing concern about an early high-grade lymphoma. These cells have not completely effaced the splenic tissue but this could be an early area of lymphoma. Continued evaluation would be suggested.
REFERRING VET	Immunophenotyping of the cells by PCR may be beneficial on the slide that has the irregular cells from the spleen.
Dr. bonte	The mammary mass impression smear demonstrates what I would expect is a severe suppurative response on the surface of an ulcerated mammary mass. There are very few epithelial cells that would suggest neoplastic tissue. This could be adenomatous or carcinomas. In the future aspiration of the mass is encouraged. Impression smears of these masses are often frustrating as



DATE 9/27/2021 in this case. A guarded prognosis is warranted in Nala due to the potential lymphoma in the spleen and the inflammation in many sites. Much of the reaction clinically could be due to the extensive inflammation.

INTERPRETED BY L.D. McGill, DVM, Ph.D, DACVP Image below shows an aggregate of large irregular lymphocytes collected from the spleen in Nala. Some have nuclei that are 6-8 times the size of RBCs. Many have nucleoli.

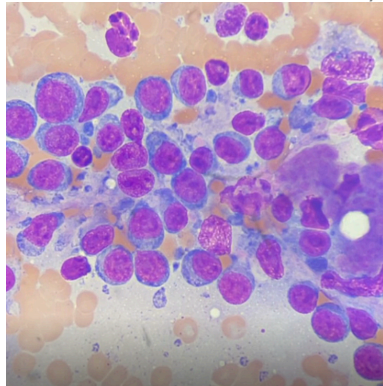
L.D. McGill, DVM,
Ph.D, DACVP

PATIENT

Nala Marquette

SPECIES

Canine



BREED

Golden Retriever

SEX

Female spayed

AGE

12-year-old

WEIGHT

72 lbs

Image below shows hepatocytes below and inflammation above collected from Nala. The inflammatory cells are prominent around the edge of the smear.

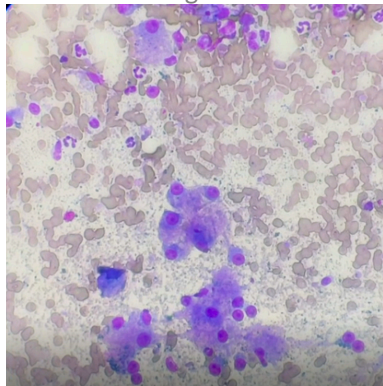
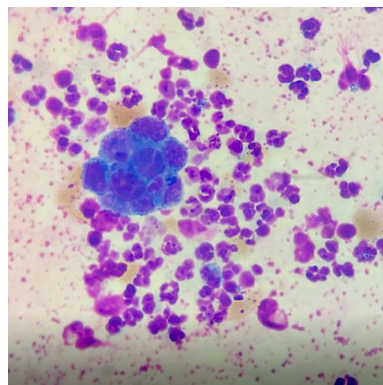


Image below shows large numbers of neutrophils with one of few aggregates of epithelial cells. They are clumped with irregular cellular size and shape collected from Nala.

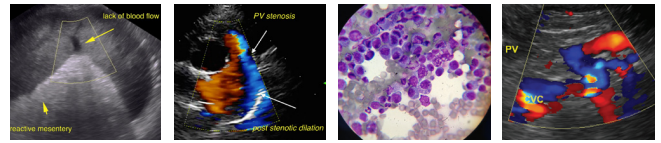


HOSPITAL NAME

Scanvet

REFERRING VET

Dr. bonte



DATE

9/27/2021

INTERPRETED BY

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

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.

PATIENT

Nala Marquette

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SPECIES

Canine

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Female spayed

AGE

12-year-old

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72 lbs

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Dr. bonte