



**DATE PRESENTING CLINICAL SIGNS**

7/15/23

3 months back, this dog started to develop this mass on one of the caudal mammary gland, It was progressive, now its is really hard on palpation, seems like calcified on palpation, even by FNA, it was tough to penetrate for the sample. 7-8 slides were prepared using Diff Quik staining. ALP was 850 U/L, high on blood chem. analysis, also ALT was 145 U/L .

**INTERPRETED BY**

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

Abd. US was performed, liver had some nodular hypoechoic rounded patches, the liver was having heterogeneous echogenicity. Otherwise, the dog was unremarkable for anything else.

**CYTOLOGY SUBMISSION**

Mammary mass

**PATIENT OBSERVATIONS**

Daisy Monica

Mammary mass: Submitted are 14 images of minimal collections of nucleated cells from the mammary gland aspirate on Daisy. The majority of the cells in the images are red blood cells which are darkly stained. There are scattered nucleated cells in some of the images but not all. There are several images that are only red blood cells. The nucleated cells are scattered neutrophils and macrophages. The macrophages have a foamy vacuolated cytoplasm. The neutrophils were degenerate in several locations. Epithelial cells were not identified in this collection.

**SPECIES**

Canine

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Mammary mass - Minimal nucleated cellularity with evidence of inflammation and hemorrhage.

**BREED**

Maltese

**COMMENTS**

The cellularity in these images is not very helpful since there are so few cells. The majority of the collection consists of red blood cells which could be from any type of process. Your description of the mass is very suspicious for a mammary mixed cell tumor or mammary gland osteoma or osteosarcoma. In either instance excision of the mass with a follow-up biopsy is encouraged. There were no cells with malignant characteristics in the images submitted. The inflammation observed could be present with any type of mammary gland proliferative process. As you may know, mammary mixed cell tumors can have cartilage and bone as part of their growth and not be malignant.

**AGE**

13y

**WEIGHT**

9.6 kg

**HOSPITAL NAME**

Pawsitive Veterinary  
Clinic Dubai

**REFERRING VET**

Dr. Iftikhar Raza

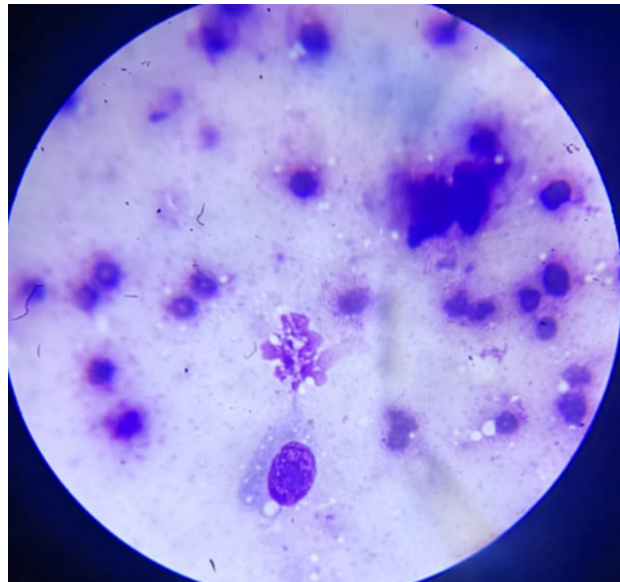


Image showing dark stained red blood cells with a neutrophil and macrophage present in the mammary collection from Daisy. There is a protein background.

**INVOICE NUMBER**

977



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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.

**INTERPRETED BY**

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

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**

Daisy Monica

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**SPECIES**

Canine

**BREED**

Maltese

**SEX**

Female Spayed

**AGE**

13y

**WEIGHT**

9.6 kg

**HOSPITAL NAME**

Pawsitive Veterinary  
Clinic Dubai

**REFERRING VET**

Dr. Iftikhar Raza

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