



## PATIENT

Marium Mariam Huraiz

## SPECIES

Feline

## BREED

Domestic Shorthair

## SEX

Intact female

## AGE

< 1 year

## WEIGHT

3.57 kg

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Dr. Saboor

## HOSPITAL NAME

Creekside VC

## REFERRING VET

Dr. Hamza

## INVOICE

77986

## DATE

5/26/26

## PRESENTING CLINICAL SIGNS

History: Female intact domestic cat, estimated age less than 1 year, presented with marked diffuse enlargement and swelling of all mammary glands. The enlargement was noted to be severe and generalized, involving the entire mammary chain bilaterally. The cat is not spayed and reproductive history is unknown/no previous ovariohysterectomy. Duration and progression of swelling: unknown. No known history of trauma. Clinical examination revealed enlarged, firm-to-soft mammary tissue. Fine needle aspiration was obtained from one affected mammary gland for cytologic evaluation. Differential diagnoses include fibroadenomatous mammary hyperplasia, mastitis, and mammary neoplasia. Please evaluate for cytologic features of hyperplasia, inflammation, or neoplasia.

## CYTOLOGY SUBMISSION

FNA of the mammary gland was submitted

## OBSERVATIONS

Mammary gland: Submitted are 17 very good images of minimal to moderate collections of cells from the mammary gland in Marium. The cellularity includes scattered macrophages and neutrophils with several packets of epithelial cells. The epithelial cells are minimally altered. They have rounded to slightly elongated nuclei and are aggregated in two or three of the images. Inflammatory cells are present in most of the images with fields of red blood cells. Malignant characteristics are not suggested.

## INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

Mammary gland - Consistent with fibroadenomatous hyperplasia of the mammary gland of the young cat.

## COMMENTS

The cellular changes are benign in the collection submitted. There is inflammation and hemorrhage. That could be secondary. With the benign appearance of the cells, fibroadenomatous hyperplasia of the mammary gland of the young cats seems to be the most likely diagnosis. I could not identify any other changes that would support malignancy. There were only a few images with epithelial cells present. As you know, spaying these cats will often result in decreased size of the mammary gland or sometimes you can just wait and they will regress on their own. A good prognosis is expected if the cellularity is representative of the underlying process.



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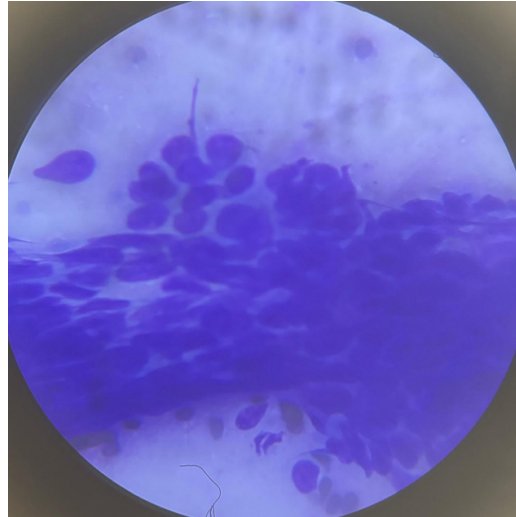
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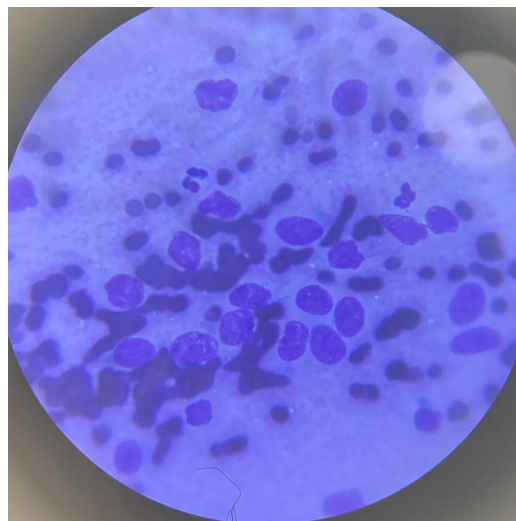
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## CYTOLOGY IMAGE



This is an image of cells collected from the mammary gland on Marium. The cellularity demonstrates a benign pattern in this aggregation of cells.



This is an image of the nuclear structures collected from the mammary gland on Marium. Note the round rather uniform nuclei with scattered neutrophils associated in the red blood cells.

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.



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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

[info@sonopath.com](mailto:info@sonopath.com)