



**DATE PRESENTING CLINICAL SIGNS**

12/21/2021 Large anal gland mass.

**CYTOLOGY SUBMISSION**  
U/S-guided FNA of mesenteric lymph nodes.

**INTERPRETED BY**  
**Addendum:** U/S-guided FNA of anal gland mass.

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

**OBSERVATIONS**

Mesenteric lymph nodes: Submitted are 4 excellent videos of excellent collections of cells from the lymph nodes in Ruger. The cellularity is very prominent throughout all of these videos. The cells are round cells with uniform nuclei and minimal cytoplasm. The chromatin is prominent in many of the cells. Nucleoli are not prominent. The nuclei are approximately the size of red blood cells. This places the nuclei in the category of mature lymphocytes. Atypical lymphoid cells are not identified. I did identify 2 to 3 macrophages with foamy cytoplasm.

**SPECIES**  
**Addendum:** Anal gland mass: Submitted are 6 excellent videos of cells collected from the anal gland region on Ruger. The cells are piled upon each other with minimal cytoplasm. The nuclear characteristics are rounded with chromatin clumping. There are scattered nuclei that appear to be naked nuclei. These cells are closely aggregated together.

Canine

**BREED**

Labrador Retriever

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Lymph nodes - Reactive or stimulated lymphoid tissue

**SEX**  
**Addendum:** Anal gland mass - Consistent with anal sac gland carcinoma with probable metastasis to the internal lymph nodes.

Male neutered

**COMMENTS**

Lymph node: The cellularity observed in these videos strongly suggests reactive mature lymphoid tissue. There were scattered macrophages. I did not identify neutrophils suggesting inflammation draining to the lymph node but the lymphoid tissue is reactive with many of the cells demonstrating nuclei that are the size of red blood cells. An outside possibility would be small cell lymphoma but this will require follow-up biopsies to confirm. Another possibility is metastasis from an anal sac gland carcinoma. I think these cells are lymphoid cells and not metastatic cells. An aspirate of the large anal mass should confirm the type of mass present at that location. If it is a perianal gland tumor, then these cells are not representative of that type of the mass. If further testing is required, these slides can be sent out for PARR testing. Mesenteric lymph nodes will respond to many problems in the abdominal cavity and commonly do not show lymphoma even when it is present.

**AGE**

12-year-old

**WEIGHT**

85 lbs

**HOSPITAL NAME**

Franklin Animal Clinic

**Addendum:** Anal gland mass: The cellularity in this collection is very similar to the cellularity in the lymph nodes. The cells are piled upon each other and the nuclear characteristics are somewhat similar. There is minimal degeneration and inflammation. With the minimal cytoplasm and the naked nuclei, anal sac gland carcinoma is the most likely diagnosis. With the similarity of the cells in the lymph node, this is likely metastatic to lymph node tissue. These tumors will metastasize early. They often cause hypercalcemia in affected dogs. An unfavorable prognosis is expected.

**REFERRING VET**

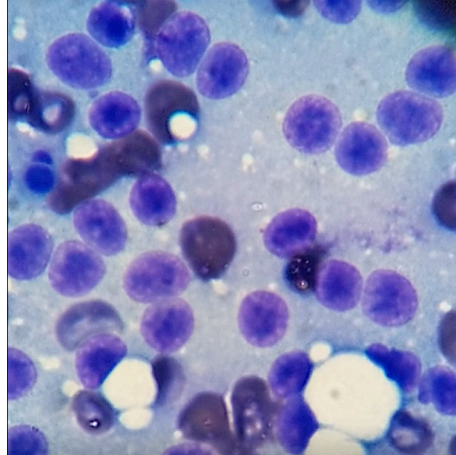
Dr. Sam Doverspike



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Image of lymph node sample below shows the nuclei of cells collected from Ruger. Note that these nuclei are approximately the size of RBCs.



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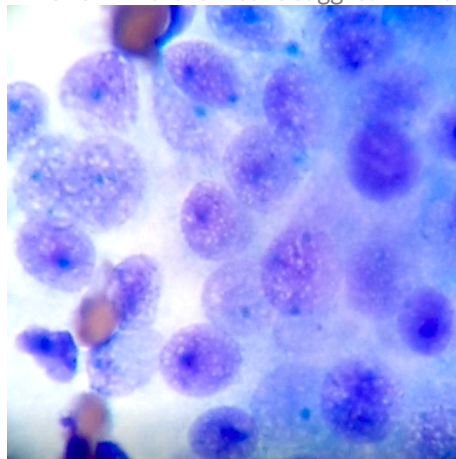
**PATIENT**

Ruger Cubbon

**SPECIES**

Canine

**Addendum:** Image of anal gland tumor sample below shows cells piled upon each other with minimal cytoplasm. These cells have characteristics suggestive of an anal sac gland carcinoma.



**BREED**

Labrador Retriever

**SEX**

Male neutered

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12-year-old

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85 lbs

**HOSPITAL NAME**

Franklin Animal Clinic

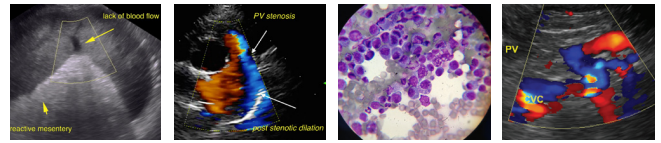
**The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

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.

**REFERRING VET**

Dr. Sam Doverspike

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**DATE**

12/21/2021

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L.D. McGill, DVM,  
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**PATIENT**

Ruger Cubbon

**SPECIES**

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**SEX**

Male neutered

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