

**DATE PRESENTING CLINICAL SIGNS**

4/26/22 FNA of Spleen, Left Kidney, and Right Kidney Post ultrasound  
P has had no appetite approx. last 4 days, vomiting intermittently throughout last week. Enlarged left kidney per radiograph. Recently diagnosed hypothyroid. Very lethargic last few days. Current Medications Mirtazapine 15mg SID, Cerenia 60mg SID, Thyro-tab 0.6mg BID Primary

**INTERPRETED BY**

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

Question/Differential to Be Answered in This Exam R/O Amyloidosis vs. Renal Adenocarcinoma  
Abnormal PE/Chem/CBC/UA Results: Platelets- 131- blood smear did appear adequate plt numbers with plt clumping

Cholesterol- 424 Creatine Kinase- 228 Free T4 0.3 ng/dl Free t4 3.9 pmol/l  
ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

**PATIENT CYTOLOGY SUBMISSION**

Hoku Tran Left kidney; right kidney; spleen

**OBSERVATIONS**

**SPECIES** Left kidney: Submitted are 6 excellent videos of moderate collections of cells from the left kidney in Hoku. The cellularity is mixed with neutrophils, lymphocytes and scattered macrophages with foamy cytoplasm. Lymphocytes are present but most of the lymphocytes are small mature lymphocytes. Smudged nuclear structures are identified. No glomeruli or epithelial cell proliferation is identified.

Canine

**BREED**

Samoyed

Right kidney: Submitted are 4 excellent videos of moderate collections of cells from the right kidney in Hoku. The cellularity in this collection is more consistent with round cells, many of which are quite large. There are scattered packets of epithelial cells but they are few. There are scattered neutrophils and macrophages but lymphocytes are more prominent in this collection than in the left kidney. Some of the lymphocytes are large.

**SEX**

Male Intact

Spleen: Submitted are 6 excellent videos of excellent collections of cells from the spleen. Many of the fields demonstrate a mixture of cells that are neutrophils, nucleated red blood cells and lymphocytes. There are other fields in the smears that demonstrate large numbers of round cells which appear to be lymphoid cells. These lymphoid cells are quite large with prominent large nuclei. They are interspersed with other lymphoid cells. The lymphoid cells in general demonstrate an atypical pattern in many of these fields.

**AGE**

6y

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Left kidney - Pyogranulomatous inflammation  
Right kidney - Pyogranulomatous inflammation with increased numbers of lymphoid cells suggesting lymphoma.  
Spleen - Large numbers of large lymphoid cells suggesting lymphoma.

**WEIGHT**

66 lbs

**COMMENTS**

The changes in the right kidney and the spleen suggest the likelihood of lymphoma. To confirm that diagnosis, immunophenotyping of the cells would be suggested. If chemotherapy is contemplated, immunophenotyping of the cells in this collection may be beneficial to identify cell type. This information may contribute to the prognosis. These slides may be submitted for PARR testing or biopsy and immunohistochemistry staining can be undertaken. Re-collection for flow cytometry evaluation will be required if that testing is desired. You may wish to contact the laboratory to confirm the sample required for flow cytometry.

**HOSPITAL NAME**

Reid Veterinary Hospital

**REFERRING VET**

Dr. Reid

The changes in the left kidney suggest chronic inflammation. There could also be lymphoma in that kidney but the inflammation is prominent. Amyloidosis is very difficult to identify cytologically. Biopsies are better samples to evaluate for amyloid. Amyloid most commonly is exhibited in the glomeruli and those are difficult to collect cytologically. There is no suggestion of adenocarcinoma in the kidney.

**INVOICE NUMBER**

619

Again the major process that appears to be present in Hoku is lymphoma which appears to be in



**DATE** 4/26/22 the spleen and very likely in the right kidney if not the left. An unfavorable prognosis is warranted with these observations. Chemotherapy may be of benefit for a short time.

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**PATIENT**

Hoku Tran

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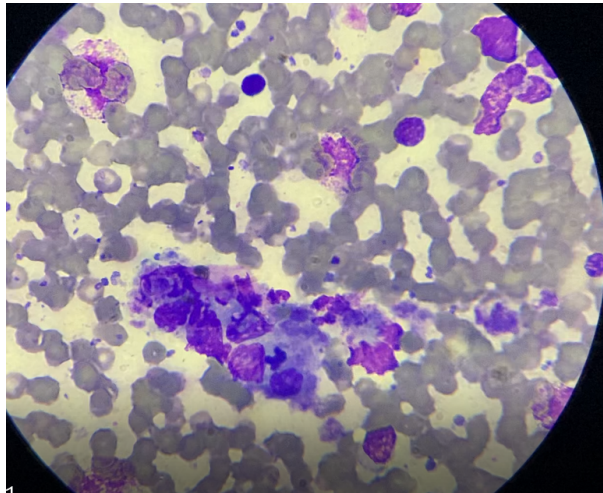


Image shows cells collected from the left kidney in Hoku. The cellularity is mixed.

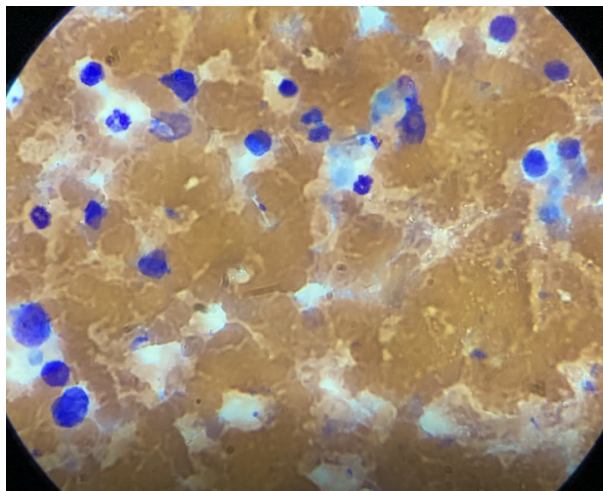


Image shows cells collected from the right kidney in Hoku. There are large numbers of lymphoid cells with a couple of large lymphoid cells.

**HOSPITAL NAME**

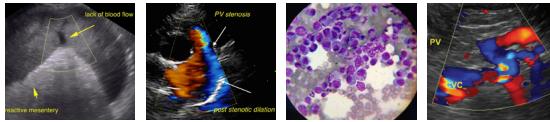
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**DATE**

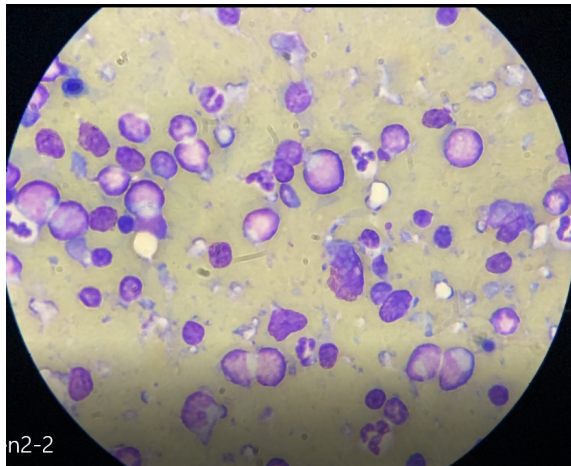
4/26/22

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**PATIENT**

Hoku Tran



**SPECIES**

Image shows cells collected from the spleen in Hoku. The larger cells with a small amount of blue-gray cytoplasm are large lymphoid cells with some atypia.

Canine

**BREED**

Samoyed

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.

**SEX**

Male Intact

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.

**AGE**

6y

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66 lbs

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