



**DATE PRESENTING CLINICAL SIGNS**

2/15/22

Pt has been treated past 2 days with primary care for vomiting diarrhea; referred for ultrasound due to abdominal radiographs showing enlarged spleen, kidneys, liver; weight loss 20% body weight over past 3 months

**INTERPRETED BY**

Chems: sl elev globulin, slight anemia, mild elev ALKP  
CBC: HCT 18% non regenerative; WBC normal

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

**CYTOLOGY SUBMISSION**

FNA Pleural Effusion & Spleen

**PATIENT**

Peeka Mech

**OBSERVATIONS**

**SPECIES**

Canine

Spleen: Submitted are 7 excellent videos of excellent collections of cells from the spleen in Peeka. The majority of the cells are round cells. These round cells have nuclei that are 2 to 4 times the size of red blood cells. Many of the nuclei are eccentrically located with minimal cytoplasm. Many of the cells have bluish granules in the cytoplasm. Occasional cells have nuclei in the center. The majority of the cells have a lymphocytic pattern.

**BREED**

Yorkshire terrier

Pleural effusion: Submitted are 5 excellent videos of excellent collections of cells from the concentrated samples of the pleural effusion. The majority of the cells in this collection are lymphoid cells identified by round nuclei that are 2 to 4 times the size of red blood cells and minimal cytoplasm. There are scattered neutrophils in the collection and scattered degenerate cells.

**SEX**

FS

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Spleen - Characteristic of high grade lymphoma (apparent granular cell lymphoma).  
Pleural effusion - Characteristic of lymphoma

**AGE**

15yr

**COMMENTS**

Both collections strongly support lymphoma. The spleen particularly is massively infiltrated with large lymphoid cells. Many of these cells have granular cytoplasm. The granular cytoplasm in a few cells is suggestive of intestinal mast cell neoplasia but I am of the opinion that the majority of the cells are granular lymphocytes. Either way this is a neoplastic round cell process that may be difficult to treat.

**WEIGHT**

6kg

The cells in the pleural effusion include lymphoid cells that could be the same type of cells as those in the spleen. They could also be a different type of lymphoma cells. In either instance there appears to be a round cell tumor in both organs submitted at this time. This strongly supports an unfavorable prognosis. 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**

Animal Emergency Care

**REFERRING VET**

Dr. Williams/AEC

**INVOICE NUMBER**

70464



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Ph.D, DACVP

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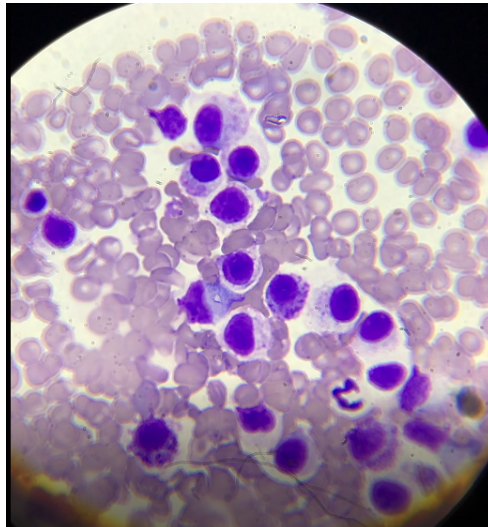


Image shows the round cells collected from the spleen in Peeka. Note the granularity.

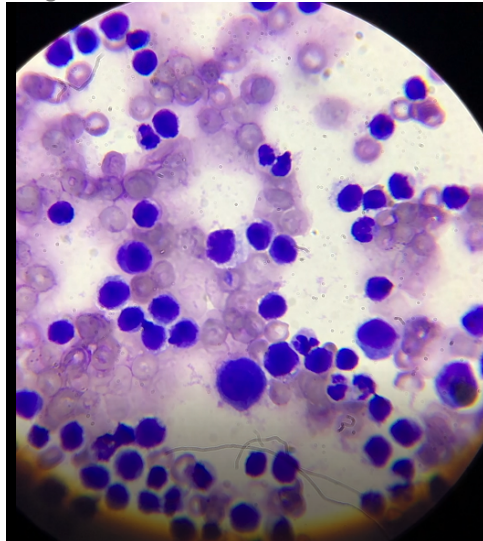


Image shows round cells collected from the pleural effusion in Peeka. There are some very large lymphoid cells.

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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.

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. Williams/AEC

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