



DATE	PRESENTING CLINICAL SIGNS
4/6/23	<ul style="list-style-type: none"> • 16 month old SF corgi with acute vomiting 3/26/23; went to local ER, owners declined everything but supportive care. • Still inappetent Tuesday (3/28), came in for rads and bw. • Rads nsf except for stool retention
INTERPRETED BY	<ul style="list-style-type: none"> • labs showed elevated cpl and elevated liver values and a bacterial cystitis confirmed with direct microscopy. • Treated with sq fluids, denamarin, enro and cerenia and improved 50% by the weekend (4/1) but still hyporexic. • 4/3, Patient looks icteric and refusing water, completely anorexic again. Intermittent regurgitation and intermittent yellow mucoid diarrhea
L.D. McGill, DVM, Ph.D, DACVP	
PATIENT	Treatments:
Freyja Cox	<ul style="list-style-type: none"> – completed 5 days of Enrofloxacin – started doxycycline on 4/3 – Denamarin – Cerenia
SPECIES	– IVF with Vit B
Canine	<ul style="list-style-type: none"> • No known exposure to xylitol, NSAIDs or other Rx meds, mushrooms, toxins. • patient traveled to OR coast with family ~1 week before clinical signs started • patient had wellness exam and vaccines, including Lepto update ~ 5 days prior to onset of clinical signs
BREED	PE:
Welsh Corgi	<ul style="list-style-type: none"> – icteric, occasional nausea on palpation.
	Blood work; 3/28:
	CBC:
SEX	– mild hemoconcentration
F S	– mild monocytosis, 1730/uL (160-1120)
	– Plt: 121,000/uL (148,000-484,000)
	CHEM:
AGE	– PHOS: 2.1 mg/dL (2.5-6.8)
16 months	– K: 2.9 mmol/L (3.5-5.9)
	– ALT: 737 U/L (10-125)
	– ALP: 594 U/L (23-212)
	– T bili: 1.0 mg/dL (0-0.9)
	– cPL reported elevated
WEIGHT	UA:
9 kg	-- USG: 1.026, proteinuria, hematuria (6 RBC/HPF), Pyuria (13 WBC/HPF), bacteria identified on direct microscopy, no casts/no crystals
	Recheck blood: 4/3:
HOSPITAL NAME	– BUN: 4 mg/dL (7-27)
Highland Veterinary Hospital	– K: 3.1 mmol/L
	– ALT: 762
	– AST: 462 U/L (0-50)
	– ALP: 835 U/L
	Rads 3/28: reportedly unremarkable aside from dry fecal retention
REFERRING VET	
Dr. Rachel Poet DVM	CYTOLOGY SUBMISSION
	FNA of Liver
INVOICE NUMBER	
40699	



DATE OBSERVATIONS

4/6/23

Liver: Submitted are 4 excellent videos of large numbers of red blood cells and minimal numbers of nucleated cells collected from the liver in Freyja. The cellularity includes very few aggregates of hepatocytes. Where they are present, they are slightly vacuolated and granulated. No specific changes are identified in those cells since they are so few in numbers. In the surrounding red blood cells there are scattered neutrophils and packets of macrophages. The macrophages demonstrate granularity and vacuolization of the cytoplasm.

INTERPRETED BY

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

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

PATIENT Liver - Mild hepatocellular vacuolization and granularity with evidence of chronic pyogranulomatous inflammation.

Freyja Cox

SPECIES COMMENTS

Canine

The cellularity in this collection contains minimal numbers of hepatocytes but those that are present demonstrate vacuolization and granularity to a very mild degree. Those changes are definitely reversible. The major cellularity appears to be in the surrounding red blood cells where there are small to moderate numbers of neutrophils and scattered macrophages. The macrophages appear to be reactive. This suggests an inflammatory process. This could be the result of leptospirosis, but it could also be the result of inflammation draining from the intestine or possibly the pancreas. That would mean there were inflammatory processes in one of those organs. The liver is likely responding secondarily unless it is leptospirosis. A guarded prognosis is warranted since the underlying process is not identified at this time but there is chronic inflammation.

BREED

Welsh Corgi

SEX

F S

AGE

16 months

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9 kg

HOSPITAL NAME

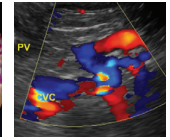
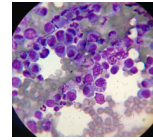
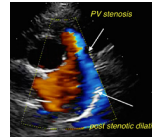
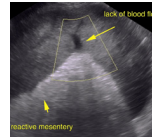
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PATIENT

Freyja Cox

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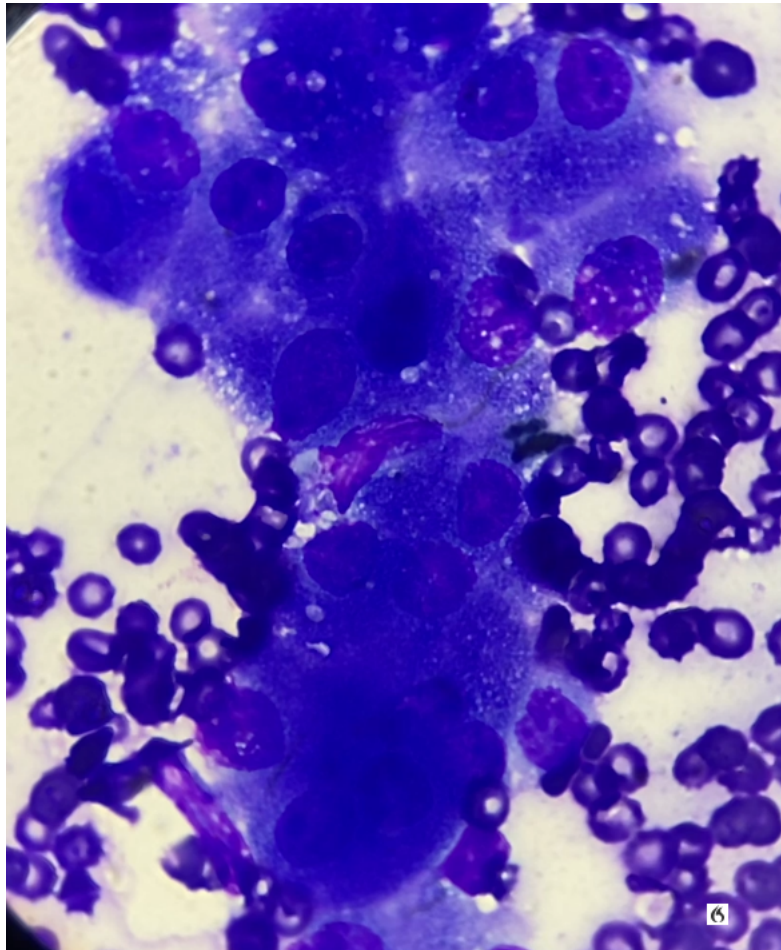
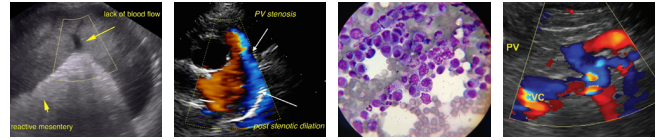


Image shows hepatocytes collected from the liver in Freyja. Note the vacuolization and dark staining of the cells.



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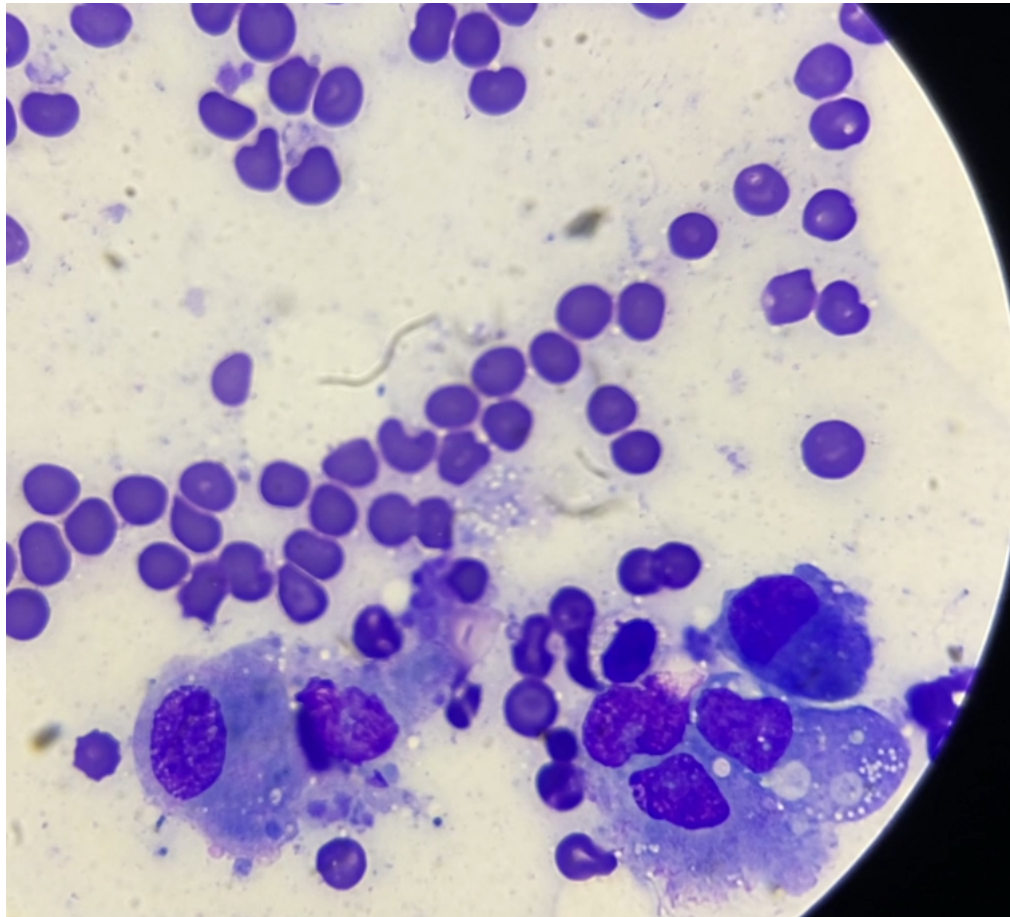


Image shows macrophages collected from the liver in Freyja. Note the vacuolization of the cytoplasm.

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.

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