



PATIENT PRESENTING CLINICAL SIGNS

Bella Humenjuk Lethargic and hypoxic icteric

SPECIES Abnormal PE/Chem/CBC/UA Results: Severe elevation of liver enzymes including bilirubin . Renal enzymes normal UA pending

Canine

BREED

Yorkshire Terrier

SEX

Spayed Female

AGE

8

WEIGHT

4.45 kg

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Fish Creek PH

REFERRING VET

Dr. Leslie

INVOICE

44517

DATE

7/31/23

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 4.13 cm. The left kidney measured 4.53 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 0.39 cm at the caudal pole and 0.48 cm at the cranial pole. The left adrenal gland measured 0.32 cm at the caudal pole and 0.32 cm at the cranial pole.

Spleen

The **spleen** presented subtle heterogeneous parenchymal changes. Subtle micronodular changes noted as well. Minor enlargement with scalloping contour.

Liver

The **liver** presented increased portal markings and heterogeneous parenchymal changes. The gallbladder presented mildly thickened wall without overdistention. Minor polyps noted. Wall thickness measured 0.29 cm. A hepatic lymph node was enlarged, measuring 0.65 cm x 1.3 cm.

Portal vein to vena cava ratio was 1:1.

Gastrointestinal

The upper **gastrointestinal tract** was mildly thickened yet empty. Curvilinear patterns were maintained.

Pancreas

The **pancreas** was hypoechoic and irregular with enhanced surrounding mesentery and nodular changes. The right limb measured 1.12 cm.



PATIENT

Bella Humenjuk

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

Spayed Female

AGE

8

WEIGHT

4.45 kg

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Fish Creek PH

REFERRING VET

Dr. Leslie

INVOICE

44517

DATE

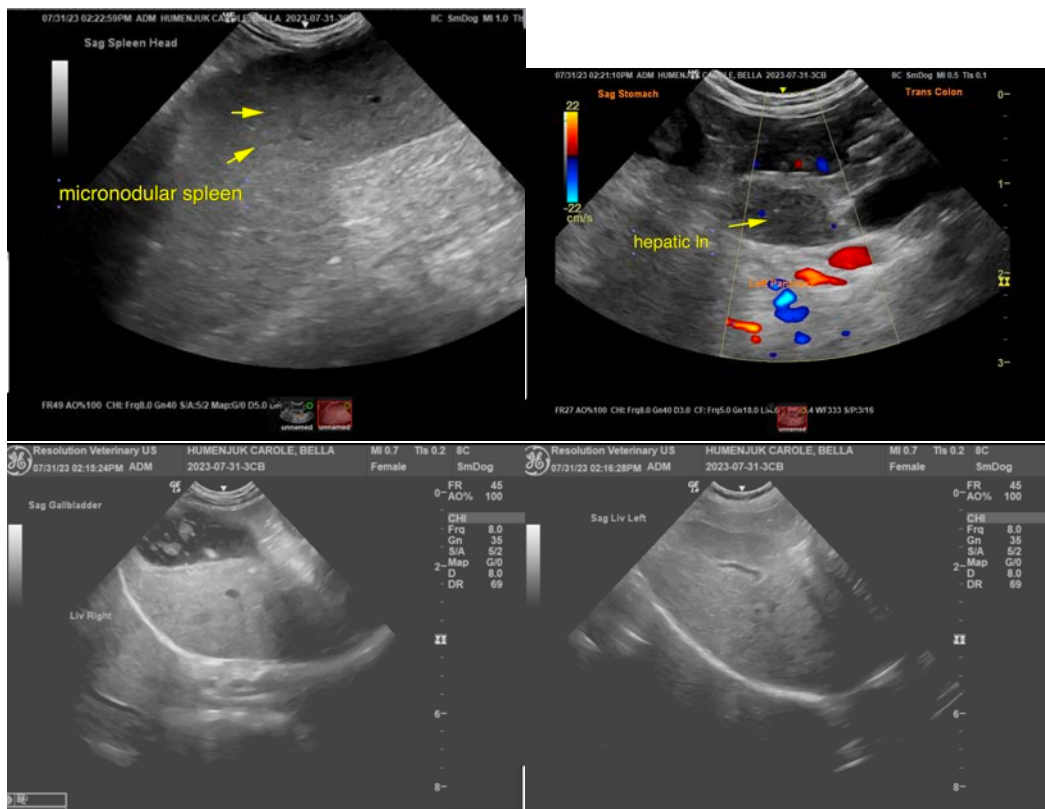
7/31/23

ULTRASONOGRAPHIC FINDINGS

- Pancreatitis/cholangitis liver pattern with nodular changes – mild potential for underlying neoplasia, especially given the hepatic lymphadenopathy and bilirubin elevations.
- Micronodular spleen
- Thickened upper gastrointestinal tract
- Age related renal changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Ultrasound guided FNA of the spleen and liver strongly recommended. Treatment for pancreatitis/cholangitis indicated, with Leptospiriosis titers. Prognosis is guarded depending upon cytology results.



Resolution Veterinary US	HUMENJUK CAROLE, BELLA	MI 0.7	Tis 0.2	BC
07/31/23 02:15:24PM ADM	2023-07-31-3CB	Female		SmDog
		FR	45	
		AC%	100	
		CHI		
		Frg	8.0	
		Gn	35	
		S/A	52	
		Map	G/D	
		D	8.0	
		DR	69	

Resolution Veterinary US	HUMENJUK CAROLE, BELLA	MI 0.7	Tis 0.2	BC
07/31/23 02:16:28PM ADM	2023-07-31-3CB	Female		SmDog
		FR	45	
		AC%	100	
		CHI		
		Frg	8.0	
		Gn	35	
		S/A	52	
		Map	G/D	
		D	8.0	
		DR	69	



PATIENT

Bella Humenjuk

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

Spayed Female

AGE

8

WEIGHT

4.45 kg

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Fish Creek PH

REFERRING VET

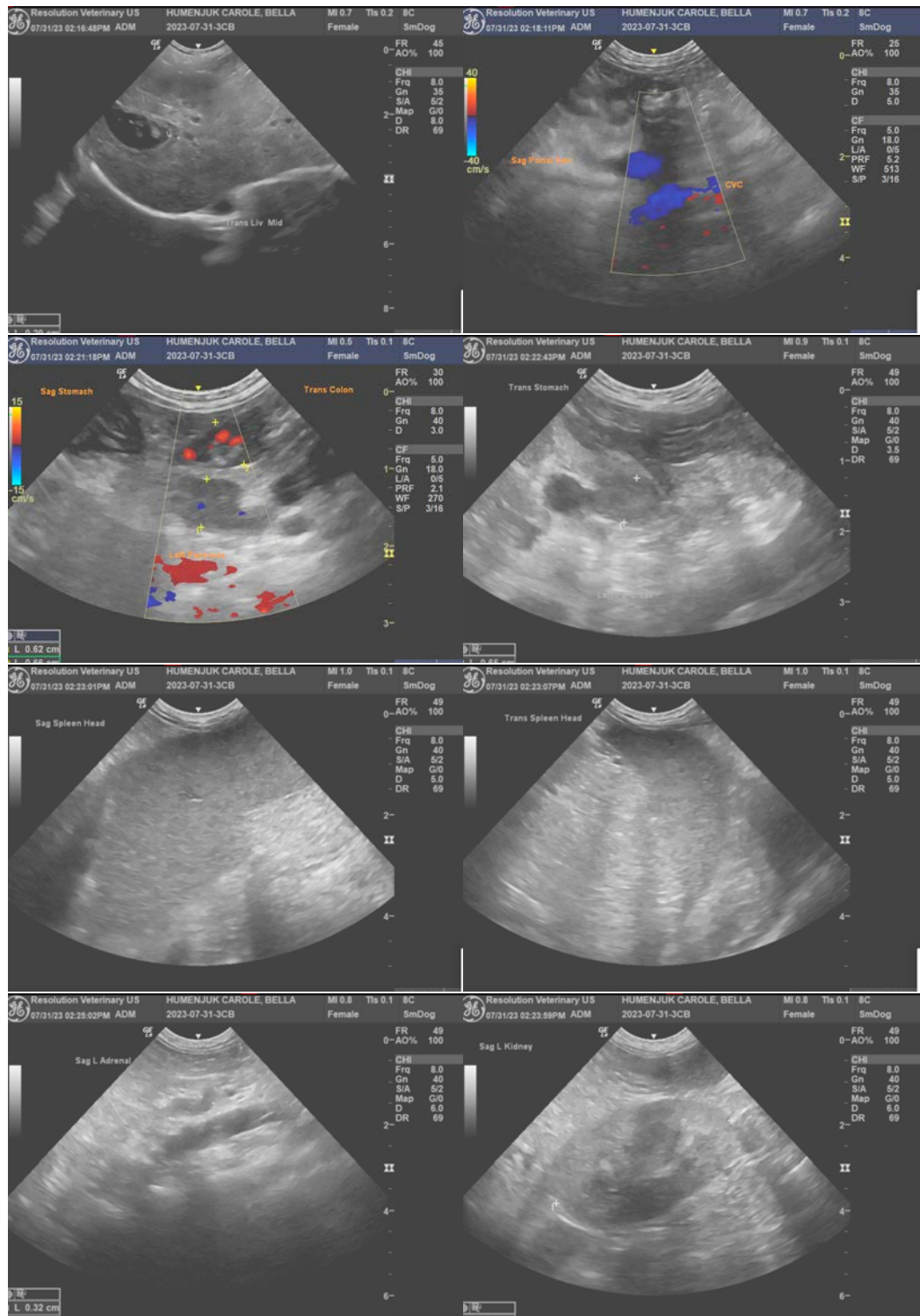
Dr. Leslie

INVOICE

44517

DATE

7/31/23





PATIENT

Bella Humenjuk

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

Spayed Female

AGE

8

WEIGHT

4.45 kg

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Fish Creek PH

REFERRING VET

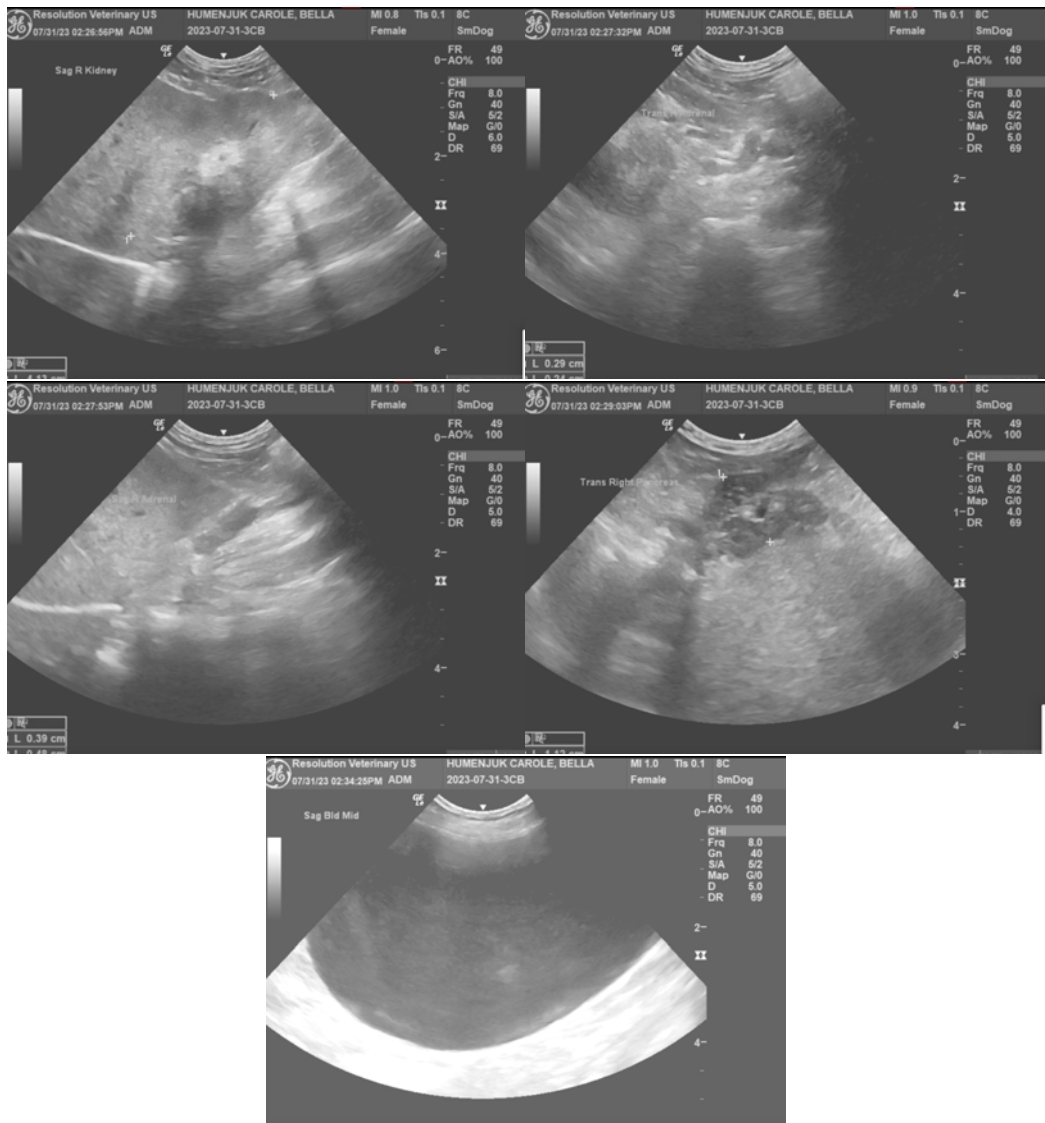
Dr. Leslie

INVOICE

44517

DATE

7/31/23



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.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com