



PATIENT PRESENTING CLINICAL SIGNS

Ivan Charbonneau

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

7 years

WEIGHT

14 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Erin Wicks

HOSPITAL NAME

Shores VEC

REFERRING VET

Dr. Lupole

INVOICE

91275

DATE

8/17/21

History: Presented at our hospital for not doing well post hospitalization (Watsontown ER and rdvm). Increased respiratory effort today. anorexia. Increased drinking water. Distended abdomen. Weight loss, muscle wasting. Lethargy. Seen 8/7/21 at Sunbury hospital for LFL possible injury on walk, swelling at dewclaw. Sent home from rdvm with ivc in place right cephalic (picked up 7 pm last night). Previous Health Concerns: cysteine crystals/stones 2018, allergies, leg injury, pancreatitis, ascites, possible liver disease Current Medications: Apoquel, had been on carprofen; 8/16 7 pm iv meds famotidine, ondansetron, cefazolin, cerenia, buprenorphine Appetite/When did they eat last: not eating well for 4-5 days or more ate small amount in hospital on 8/14
Abnormal PE/Chem/CBC/UA Results: Abdomen very distended. Prev. diagnostics: Radiographs loss of serosal detail, WBC elevated Bloodwork 8/17/21: ALB 1.6; ALP 185; Tbili 0.8; pH 7.533; Na 133; iCa 1.12; HCT 32

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 was noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 5.52 cm. The right kidney measured 5.74 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.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

Liver

The **liver** was mildly enlarged, swollen with slightly increased portal markings and thickened gallbladder.



PATIENT

Gastrointestinal

Ivan Charbonneau

Examination of the **gastrointestinal tract** revealed a stomach free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Variable intestinal thickening is present. The majority of which lacked loss of mural detail. A portion of intestine was undifferentiated and measured 3.0 x 1.5 cm. A separate intestinal mass was also noted with reactive mesentery.

SPECIES

Canine

BREED

Pug

Pancreas

The **pancreas** was hypoechoic and irregular with undifferentiated parenchyma. This is consistent with necrosis or potential neoplasia.

SEX

Neutered male

Free Abdomen

A large amount of echogenic free fluid was noted in the abdomen with enhanced, heterogenous omental changes.

AGE

7 years

ULTRASONOGRAPHIC FINDINGS

WEIGHT

14 kg

Abdominal effusion. Peritonitis presentation with reactive omentum and undifferentiated tissue. Strong concern for underlying lymphomatosis, carcinomatosis or similar.

Undifferentiated intestine. Separate intestinal mass.

Enlarged liver.

Hypoechoic, irregular pancreas.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend FNA of the intestinal masses, abdominocentesis with immediate cytospin and FNA of the liver would be warranted. Multi-centric neoplastic pattern, lymphomatosis or similar. The prognosis is poor depending upon chemoresponsiveness. Three view chest radiographs are warranted to assess for metastatic disease.

IMAGING PERFORMED BY

Erin Wicks

HOSPITAL NAME

Shores VEC

REFERRING VET

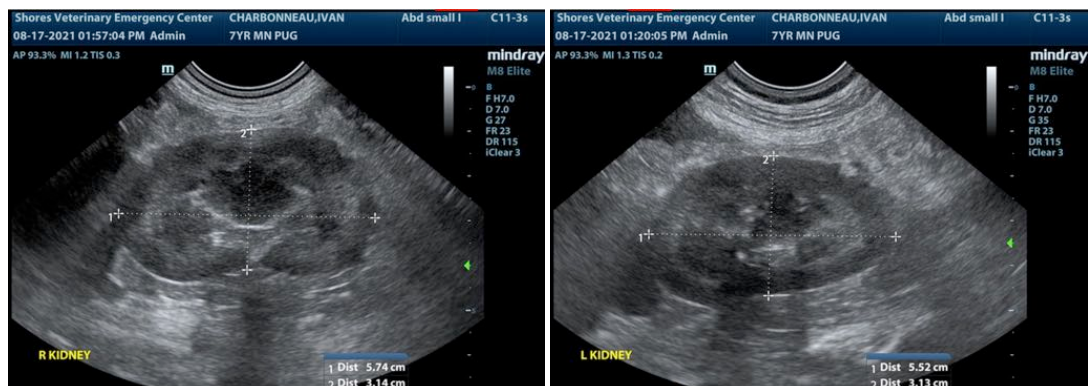
Dr. Lupole

INVOICE

91275

DATE

8/17/21





PATIENT

Ivan Charbonneau

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

7 years

WEIGHT

14 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Erin Wicks

HOSPITAL NAME

Shores VEC

REFERRING VET

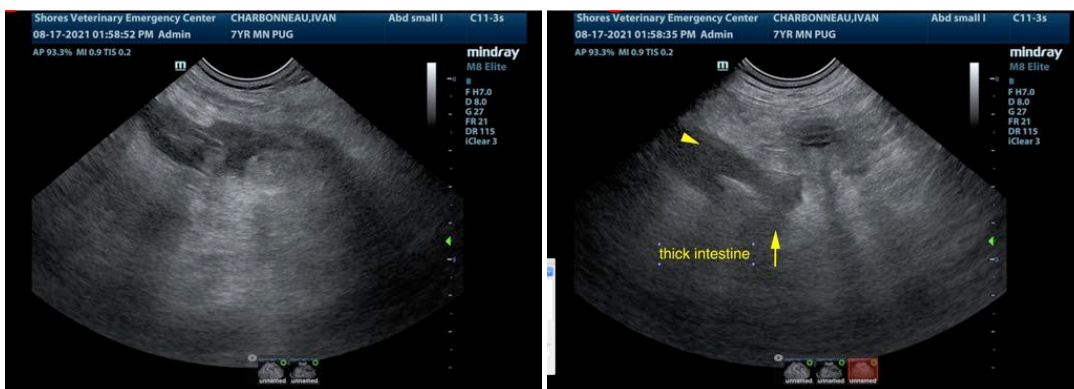
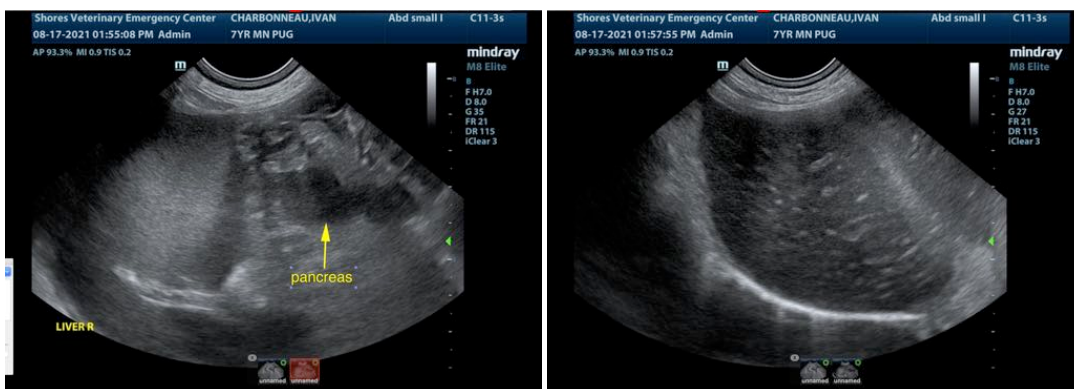
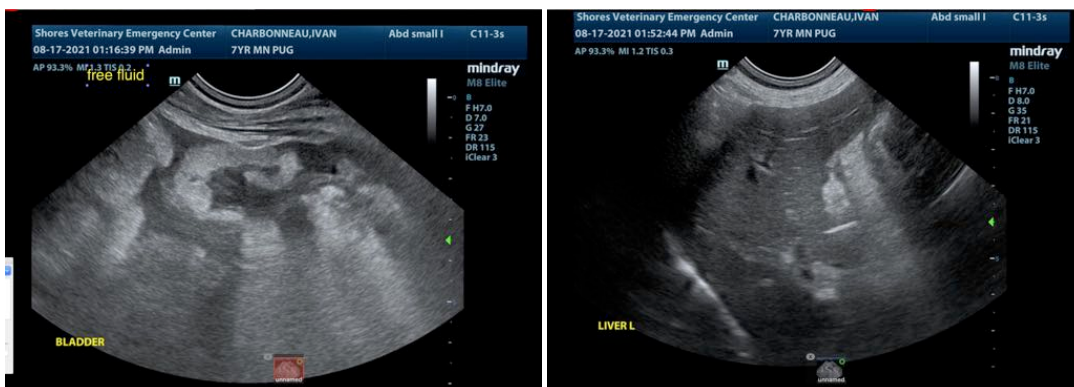
Dr. Lupole

INVOICE

91275

DATE

8/17/21





PATIENT

Ivan Charbonneau

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.

SPECIES

Canine

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

BREED

Pug

SEX

Neutered male

AGE

7 years

WEIGHT

14 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Erin Wicks

HOSPITAL NAME

Shores VEC

REFERRING VET

Dr. Lupole

INVOICE

91275

DATE

8/17/21