



PATIENT

Pippa Donahue

PRESENTING CLINICAL SIGNS

Bomb sniffing working dog presents for PU/PD, urinary accidents, trouble maintaining weight (visible spine), ALP 316. Symptoms are interfering with work. Fully vaccinated. Current meds: Panacur and Doxycycline.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: ALP: 316, rest of Chem/CBC/T4 WNL, 4DX (-). U/A: USG 1.052, pH 7.5, 1+ protein, 1+ bili., 3+ struvite, C & S negative 11/14/22.

BREED

German Shorthaired
Pointed

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

SEX

Neutered Male

The prostate is borderline large and heterogeneous, measuring 1.42 cm. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

AGE

3 Years

The left kidney has a normal shape and size (7.03 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

50 Pounds

The right kidney has a normal shape and size (6.95 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

Adrenal Glands

The left adrenal gland is normal in size measuring 0.53 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

IMAGING PERFORMED BY

Kelly Vazquez

The right adrenal gland is normal in size measuring 0.43 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

HOSPITAL NAME

Ringwood AH

Spleen

The spleen is normal/borderline large, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

REFERRING VET

Dr. Jamie DeSpirito

Liver

The liver is subjectively normal in size, and hypoechoic with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

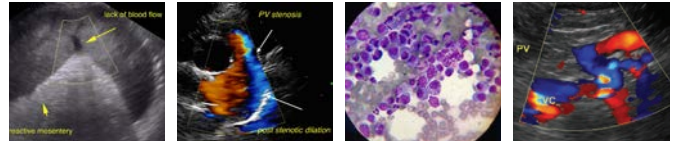
INVOICE

42922

The gallbladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are mild and primarily anechoic. The cystic and common bile ducts are normal/not visible.

DATE

11/22/22



PATIENT

Pippa Donahue

SPECIES

Canine

BREED

German Shorthaired
Pointed

SEX

Neutered Male

AGE

3 Years

WEIGHT

50 Pounds

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Ringwood AH

REFERRING VET

Dr. Jamie DeSpirito

INVOICE

42922

DATE

11/22/22

Gastrointestinal

The stomach is dilated with a large amount of fluid and irregular shadowing material most consistent with normal ingesta and gas. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layering is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

Most of the visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal to moderate fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. Jejunum wall measures 0.27 cm. Visualized peristalsis appears appropriate. No focal bowel lesions are observed, but there are some areas with mild to moderate fluid distention and lack of progressive motility.

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

Pancreas

The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion. There is a prominent mesenteric lymph node measuring 0.65 cm The omentum is of normal echogenicity,

ULTRASONOGRAPHIC FINDINGS

- Borderline large, heterogeneous prostate – Correlate with the age of neutering. If this pet was neutered prior to puberty, this is likely large, and I would recommend a fine needle aspirate. If this patient was neutered after puberty, this could be within normal limits.
- Borderline large spleen – Correlate with abdominal radiographs. The spleen appears somewhat prominent. Primary differentials would include congestion or infiltrative disease. A fine needle aspirate could be considered.
- Hypoechoic, heterogeneous liver – The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy. With a lack of liver enzyme elevations, the significance of this finding is unclear.
- Large amount of shadowing ingesta within the gastric lumen – Correlate with the feeding history and abdominal radiographs. If the patient was adequately fasted consider such differentials as delayed gastric emptying, a partial outflow tract obstruction (none seen) or ingested foreign material.
- Occasional mildly fluid dilated bowel loops – No obstructive pattern is visualized. Consider such differentials as a partial obstruction, ileus, or a recent meal.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The changes observed on today's scan are relatively mild and subjective. The prostate is large for a neutered pet, but if this pet was neutered later in life, this could be within normal limits.



PATIENT

Pippa Donahue

The spleen appears somewhat prominent with no focal lesions. Correlate this with abdominal radiographs. A fine needle aspirate could be considered.

SPECIES

Canine

Additionally, the liver is somewhat hypochoic, but with a lack of liver enzyme elevations, the significance of this is unclear.

BREED

German Shorthaired
Pointed

Additionally, there is a large amount of ingesta visualized within the gastric lumen. If the patient was adequately fasted, then recommended correlation with abdominal radiographs and consider the possibility of delayed gastric emptying or ingested foreign material.

SEX

Neutered Male

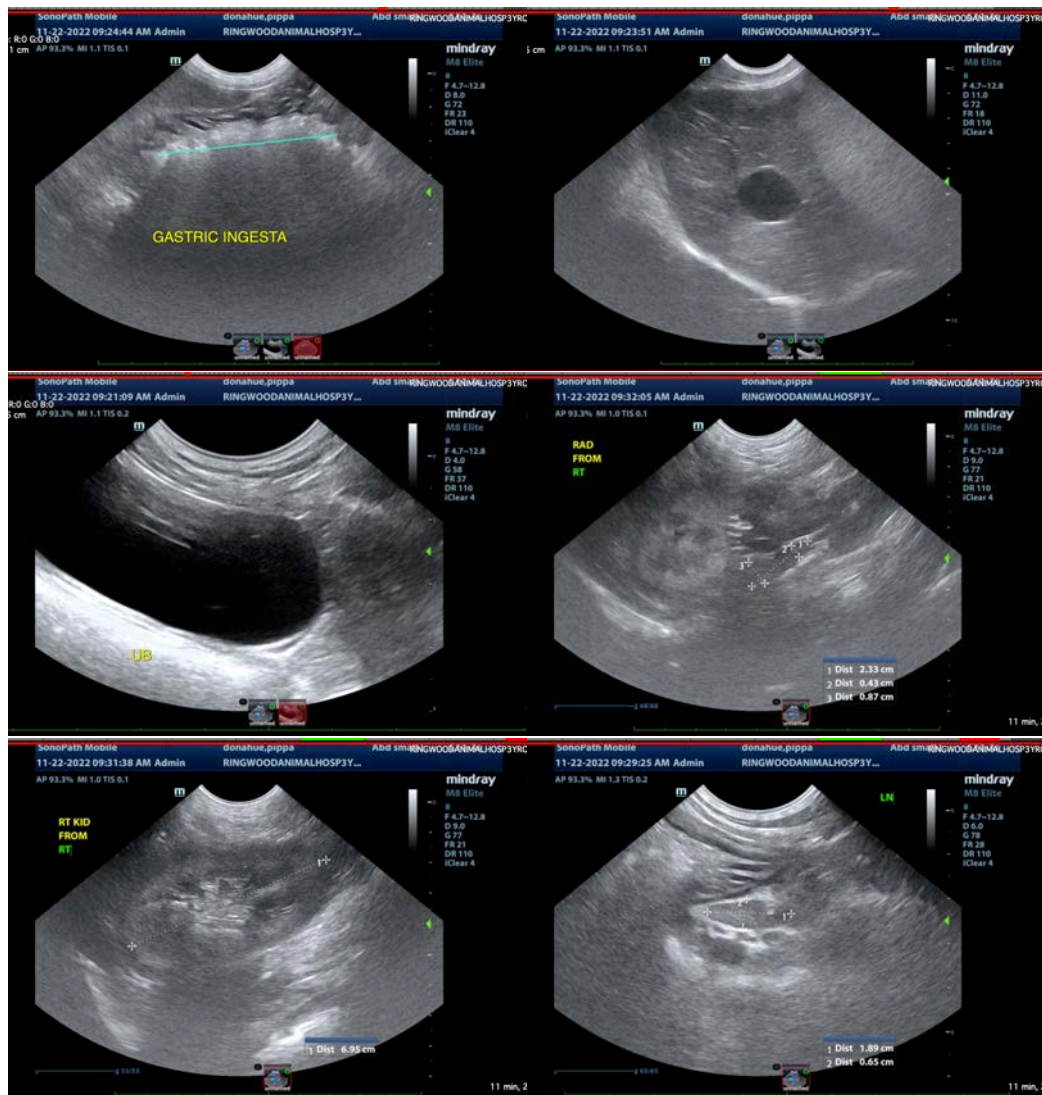
Based on the information provided, this pet has adequate renal function and is unlikely to be truly PU/PD unless water was withheld for a significant amount of time. Consider such differentials as a fever, look for joint pain, correlate with thoracic radiographs, consider a baseline cortisol looking for Addison's disease, etc.

AGE

3 Years

WEIGHT

50 Pounds



INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Ringwood AH

REFERRING VET

Dr. Jamie DeSpirito

INVOICE

42922

DATE

11/22/22



PATIENT

Pippa Donahue

SPECIES

Canine

BREED

German Shorthaired
Pointed

SEX

Neutered Male

AGE

3 Years

WEIGHT

50 Pounds

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Ringwood AH

REFERRING VET

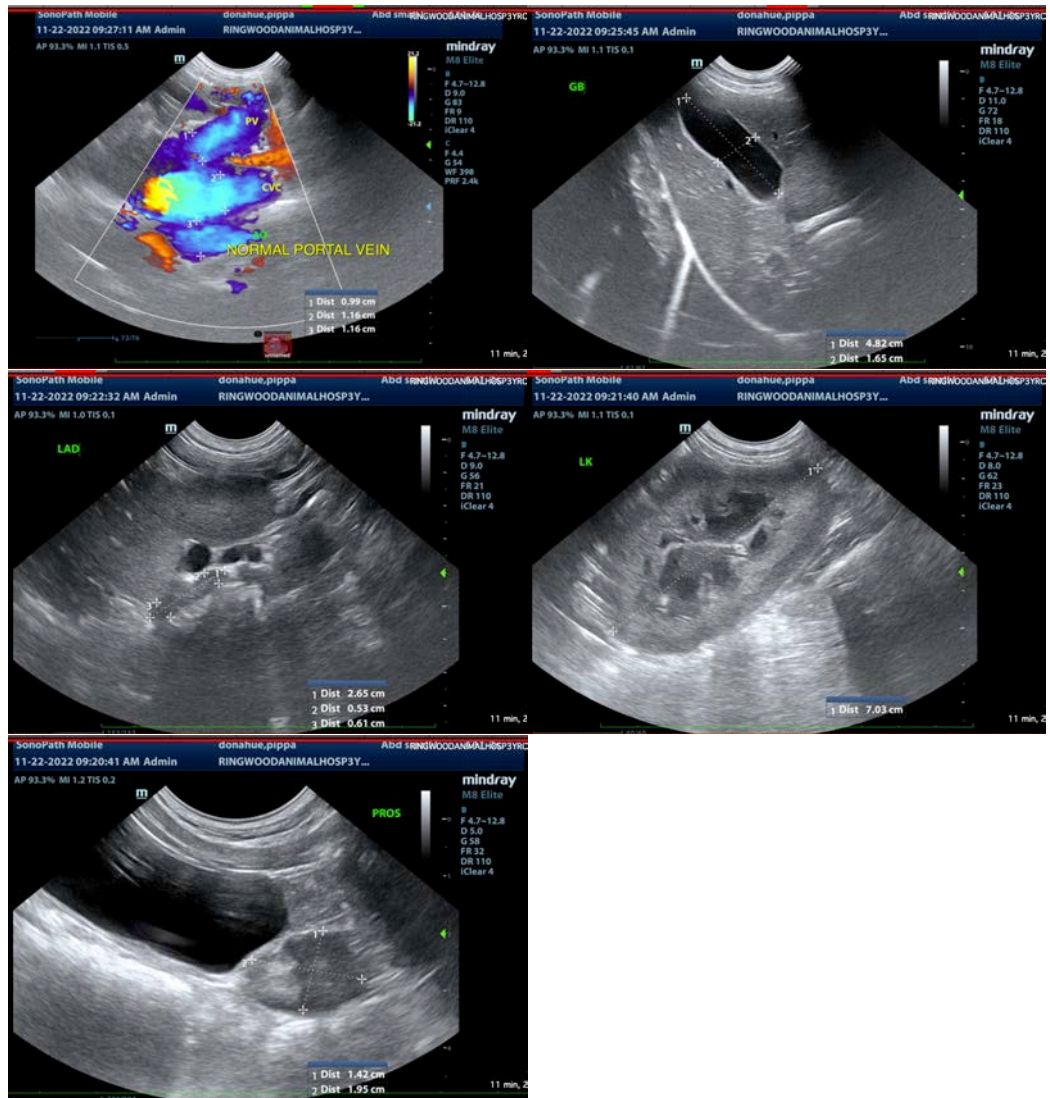
Dr. Jamie DeSpirito

INVOICE

42922

DATE

11/22/22



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.

Kathleen Sennello DVM,MS, Diplomate ACVIM (Small animal Internal Medicine)

kathleen.sennello@sonopath.com