



**PATIENT PRESENTING CLINICAL SIGNS**

- Seamus Alikhan
- Hx vomiting
  - Presumptive osteoarthritis hips and stifles
- SPECIES**
- Dental calc
  - Nuclear sclerosis OU
- Canine
- Scarring dorsal rostrum
  - Diffusely thin skin

**BREED**

Dobermn Pinscher

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

*Urinary System*

**SEX**

Male, neutered

The urinary bladder is moderately distended. The wall in the region of the apex is thickened (up to 0.51 cm) with an irregular mucosal surface. The wall tapers to a normal thickness as it extends toward the urinary bladder neck. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2 cm, are normal.

**AGE**

6/10/2013

The prostate is normal in size (1.41 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

**WEIGHT**

64.4 lbs.

The left kidney is normal size (7.11 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

The right kidney is normal size (6.74 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

*Adrenal Glands*

**IMAGING PERFORMED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

The left adrenal gland is subjectively normal in length with a flattened contour (0.30 cm at cranial pole) (0.36 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

The right adrenal gland is subjectively normal in length with a flattened contour (0.86 cm at cranial pole) (0.38 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

**HOSPITAL NAME**

Brighton AH

*Spleen*

**REFERRING VET**

Dr. Wetzel

The spleen is normal in size (2.43 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

**INVOICE**

15073

*Liver*

**DATE**

6/21/23

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative or



**PATIENT**

Seamus Alikhan

regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed. The portal vein to caudal vena cava ratio is approximately 1:1. The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal/not seen.

**SPECIES**

Canine

***Gastrointestinal***

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is mildly distended with ingesta. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is segmentally dilated with gas and chyme (mild). The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

**BREED**

Dobermn Pinscher

**SEX**

Male, neutered

***Pancreas***

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

**AGE**

6/10/2013

***Free Abdomen***

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

**WEIGHT**

64.4 lbs.

***Other***

A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

**ULTRASONOGRAPHIC FINDINGS**

**IMAGING**

**PERFORMED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

**Primary Findings:**

- The flattened adrenal gland may be a normal variant or could be consistent with early atrophy (i.e., secondary to hypoadrenocorticism)

**Secondary Findings:**

- The urinary bladder wall changes are suggestive of cystitis. Correlation with the patient's clinical history and urinalysis findings is recommended.

**HOSPITAL NAME**

Brighton AH

**REFERRING VET**

Dr. Wetzel

\*An obvious cause for the patient's vomiting is not identified in this study. Considerations include microscopic gastrointestinal disease (i.e., food allergy/intolerance, dysbiosis, inflammatory bowel disease), underlying metabolic issue (i.e., hypoadrenocorticism), other.

**INVOICE**

15073

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

- A fecal evaluation for internal parasites is recommended, if not already performed.

**DATE**

6/21/23



**PATIENT**

Seamus Alikhan

**SPECIES**

Canine

**BREED**

Dobermn Pinscher

**SEX**

Male, neutered

**AGE**

6/10/2013

**WEIGHT**

64.4 lbs.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

**IMAGING PERFORMED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

**HOSPITAL NAME**

Brighton AH

**REFERRING VET**

Dr. Wetzel

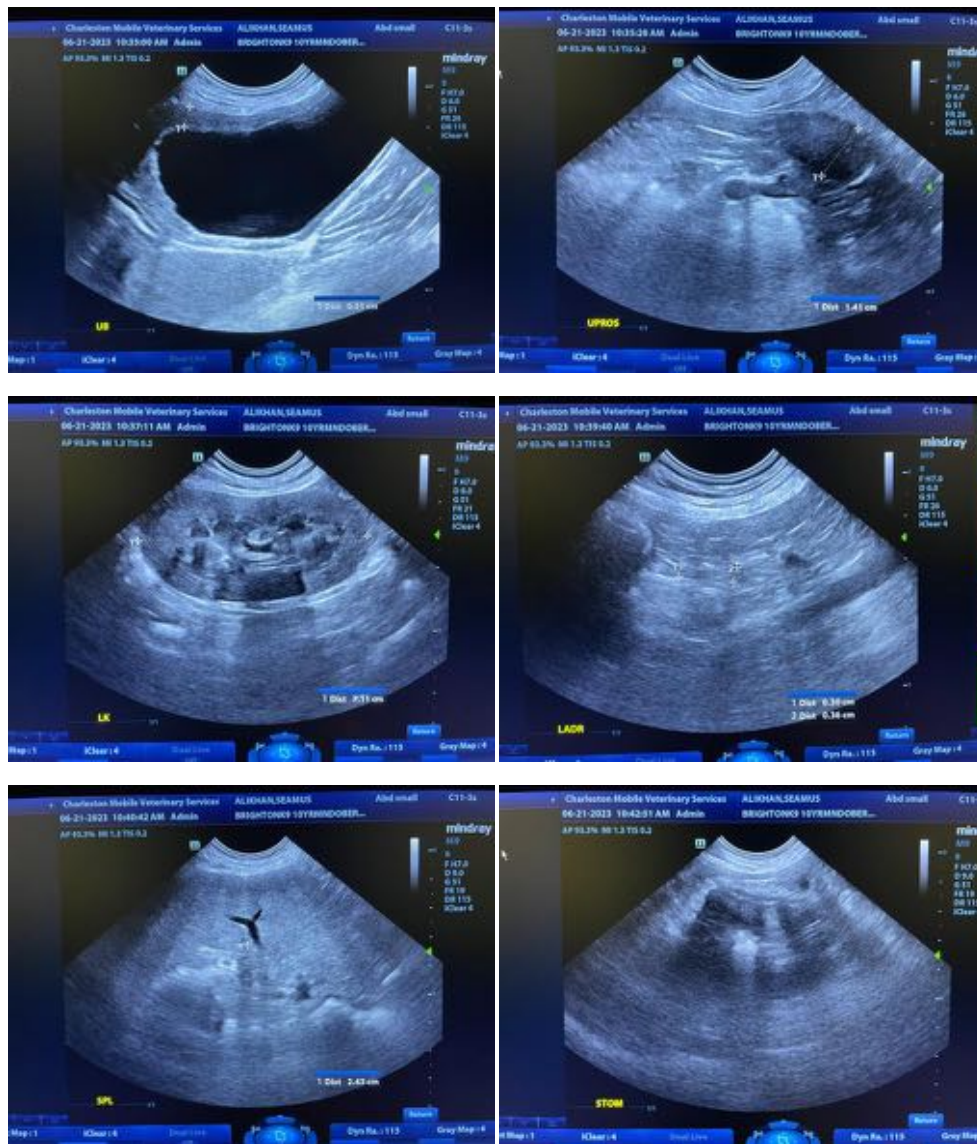
**INVOICE**

15073

**DATE**

6/21/23

- Also consider a Texas GI panel including serum cobalamin, folate, TLI, PLI and resting cortisol level.
- A 4-week limited antigen or hydrolyzed protein diet trial is also recommended to evaluate for food allergies.
- Initiation of a probiotic with a high colony count may also be beneficial.
- Consider three-view thoracic radiographs to assess for occult esophageal disease.
- Ultimately, endoscopic or surgical GI biopsies may be necessary to get a definitive diagnosis.
- Regarding the urinary bladder wall changes, a urinalysis +/- culture and sensitivity is recommended.





**PATIENT**

Seamus Alikhan

**SPECIES**

Canine

**BREED**

Dobermn Pinscher

**SEX**

Male, neutered

**AGE**

6/10/2013

**WEIGHT**

64.4 lbs.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
*(Small Animal Internal  
Medicine)*

**IMAGING  
PERFORMED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
*(Small Animal Internal  
Medicine)*

**HOSPITAL NAME**

Brighton AH

**REFERRING VET**

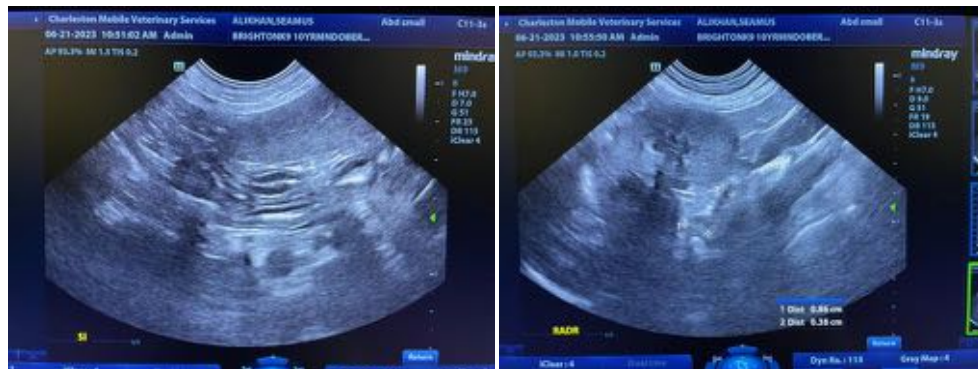
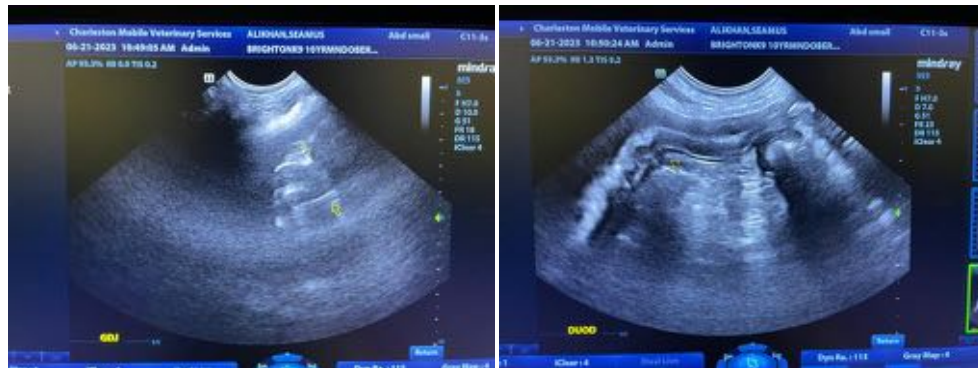
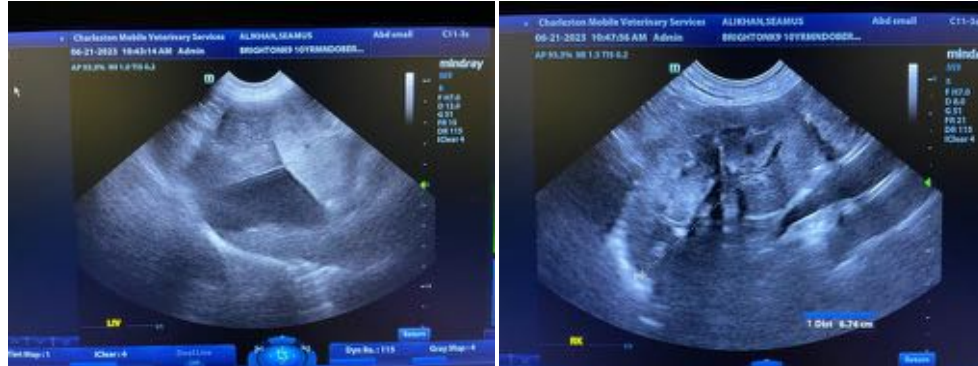
Dr. Wetzel

**INVOICE**

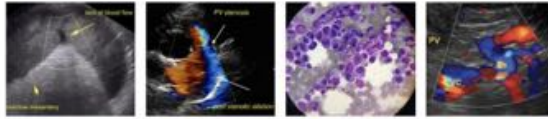
15073

**DATE**

6/21/23



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.



**PATIENT**

Seamus Alikhan

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

Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)  
[info@SonoPath.com](mailto:info@SonoPath.com)

**BREED**

Dobermn Pinscher

**SEX**

Male, neutered

**AGE**

6/10/2013

**WEIGHT**

64.4 lbs.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(*Small Animal Internal  
Medicine*)

**IMAGING  
PERFORMED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(*Small Animal Internal  
Medicine*)

**HOSPITAL NAME**

Brighton AH

**REFERRING VET**

Dr. Wetzel

**INVOICE**

15073

**DATE**

6/21/23