



PATIENT

Fergus Graybill

SPECIES

Canine

BREED

West Highland
White Terrier

SEX

Neutered Male

AGE

10 Years

WEIGHT

15.5 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Dr. Leal

HOSPITAL NAME

Blairstown AH

REFERRING VET

Dr. Harker

INVOICE

40532

DATE

8/16/22

PRESENTING CLINICAL SIGNS

Dog presented with vomiting of 24-48 hour duration. Not eating, lethargic now. Bloodwork shows 34K WBC with bands. Amylase/lipase elevated (amylase = 2024, lipase=4522) Radiographs show enlarged stomach (?) Ultrasound done for further diagnostics

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

Prostate is normal in size, echotexture and echogenicity for a neutered male.

The right kidney is normal in size (4.3 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

The left kidney is normal in size (4.6 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

Adrenal Glands

The right adrenal gland is normal in size (0.55 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (measurement not available) with normal shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

Spleen

The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

Liver

The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

Gallbladder is moderately distended with anechoic bile as well as suspended and gravity dependent echogenic debris. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.

Gastrointestinal

The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is markedly overdistended with anechoic free fluid, with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions



PATIENT

Fergus Graybill

per min). The lumen of the small intestine is empty, except for the proximal duodenum, which is also distended with anechoic fluid up to an echogenic curvilinear structure with a strong acoustic shadow, after which the bowel returns to normal. This is a characteristic obstructive pattern secondary to suspect foreign body.

SPECIES

Canine

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Pancreas

BREED

West Highland White Terrier

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

SEX

Neutered Male

Free Abdomen

There is no evidence of free peritoneal effusion noted in these images.

AGE

10 Years

The medial iliac lymph nodes are prominent in size with swollen capsular contour. Normal elongated shape (length to width ratio) is maintained. There is no loss of parenchymal detail.

PRIMARY FINDINGS

- Suspect proximal duodenal foreign body with a characteristic obstructive pattern cranial to it – Normal ingesta/gas cannot be definitively ruled out. However, given the obstructive pattern, it is considered less likely.

WEIGHT

15.5 Pounds

SECONDARY FINDINGS

- **Gallbladder debris** - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.
- **Reactive medial iliac lymph nodes** – infiltrative neoplastic disease cannot be ruled out but is considered less likely.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

An surgical laparotomy for suspected foreign body removal is recommended.

IMAGING PERFORMED BY

Dr. Leal

If surgery is not possible, or a conservative approach is elected first, passage of a nasogastric tube for gastric suction/emptying could be considered, followed by medical supportive/symptomatic care with fluid therapy, antiemetics, gastroprotectants, fasting, etc., with recheck imaging with radiographs and ultrasound of the gastrointestinal tract after the stomach has been emptied. However, given the risks of progressive vomiting, regurgitation, aspiration pneumonia, bowel perforation, etc., that option is not recommended.

HOSPITAL NAME

Blairstown AH

REFERRING VET

Dr. Harker

INVOICE

40532

DATE

8/16/22



PATIENT

Fergus Graybill

SPECIES

Canine

BREED

West Highland
White Terrier

SEX

Neutered Male

AGE

10 Years

WEIGHT

15.5 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Dr. Leal

HOSPITAL NAME

Blairstown AH

REFERRING VET

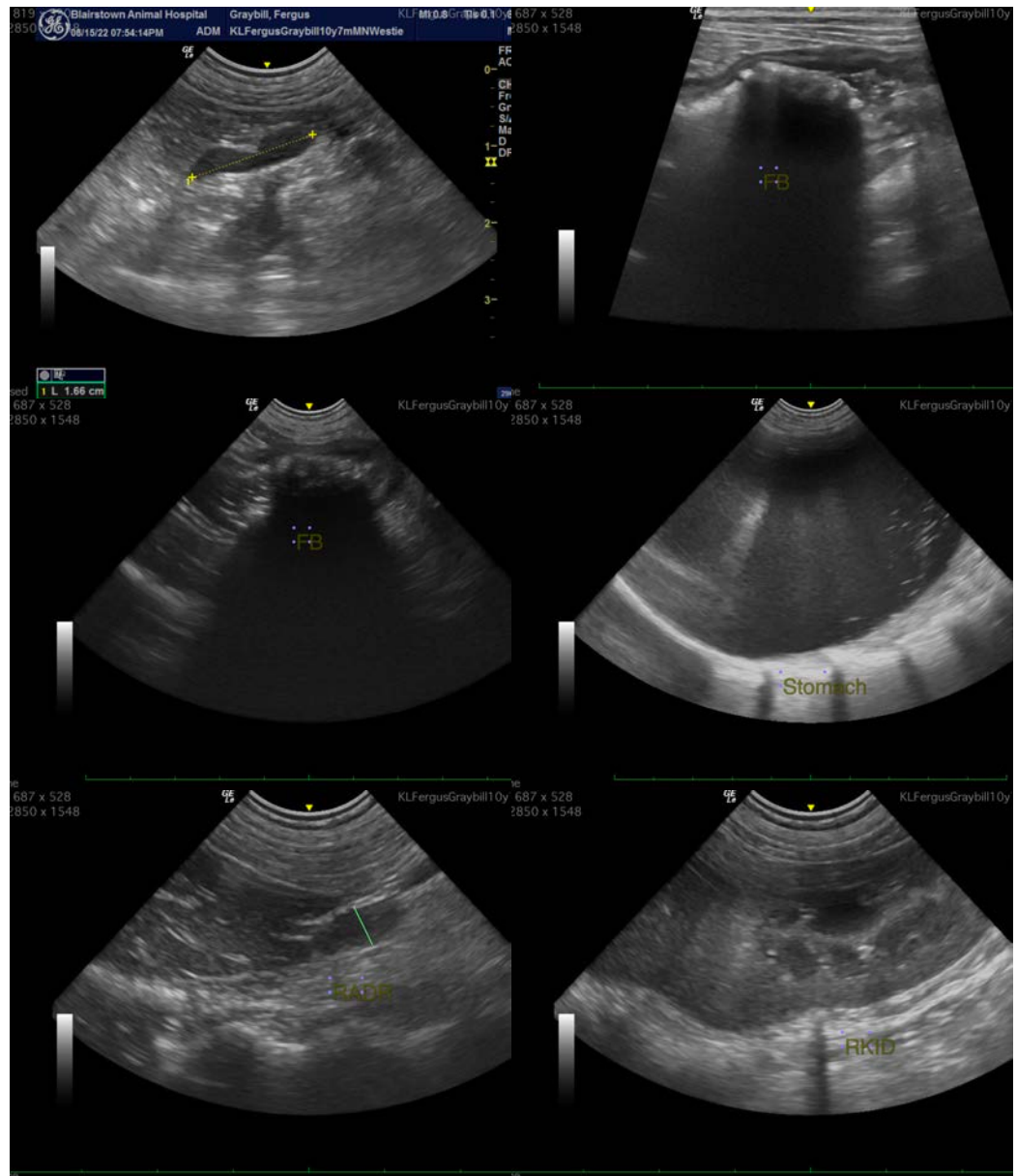
Dr. Harker

INVOICE

40532

DATE

8/16/22





PATIENT

Fergus Graybill

SPECIES

Canine

BREED

West Highland
White Terrier

SEX

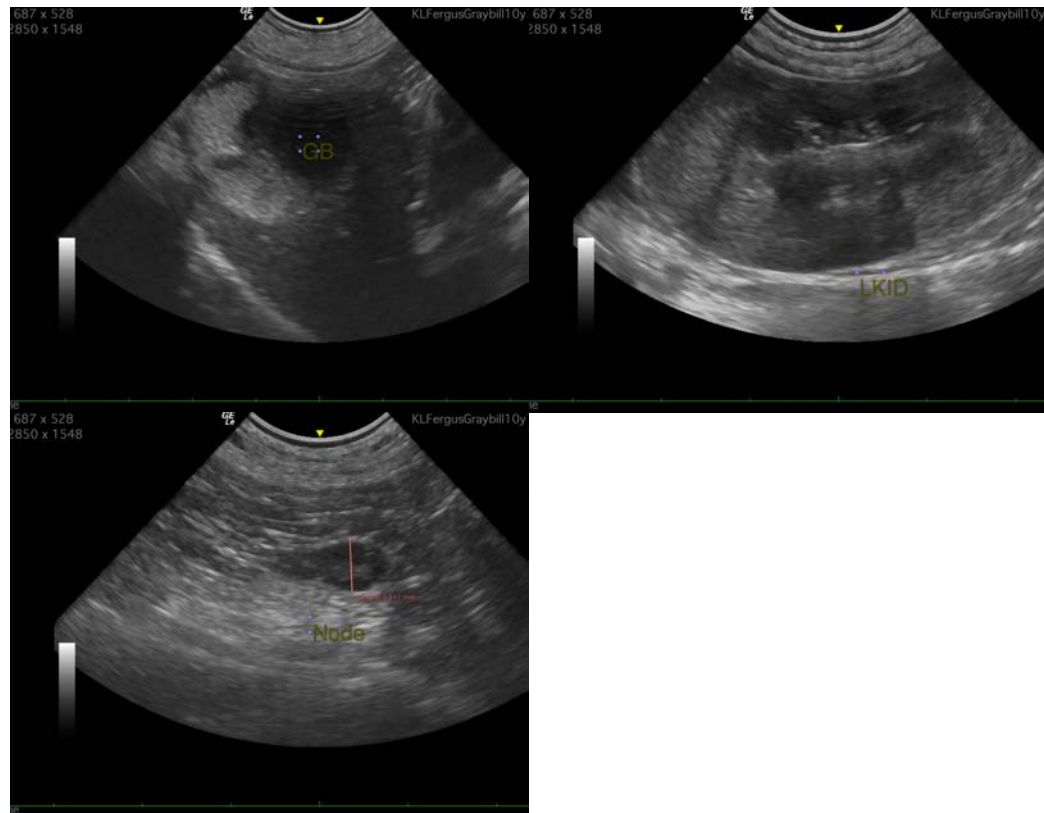
Neutered Male

AGE

10 Years

WEIGHT

15.5 Pounds



INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Dr. Leal

HOSPITAL NAME

Blairstown AH

REFERRING VET

Dr. Harker

INVOICE

40532

DATE

8/16/22

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.

Beth Johnson, DVM, DACVIM
Beth.Johnson@sonopath.com