



PATIENT PRESENTING CLINICAL SIGNS

Keely Trumble Hypoglycemia and nystagmus seizures. Currently on galliprant.
Abnormal PE/Chem/CBC/UA Results: Glucose 49 (01/11/2022).

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

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.

BREED

American Bull Terrier Right kidney is normal in size (6.69 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.

SEX

Spayed Female Left kidney is normal in size (6.38 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.

AGE

10 Years **Adrenal Glands**
Right adrenal gland is normal in size (2.86 cm long x 0.34 cm at cranial pole and 0.53 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

WEIGHT

57.6 Pounds Left adrenal gland is normal in size (2.51 cm long x 0.53 cm at cranial pole and 0.62 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

Spleen

INTERPRETED BY

Beth Johnson, DVM
DACVIM 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). A 1.4 cm hypoechoic, non-capsule disrupting nodule was noted in the mid body of the spleen. Splenic vasculature appears normal.

Liver

HOSPITAL NAME

Cascade Pet Hospital 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.

REFERRING VET

Dr. Cathy Jarrett Gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

Gastrointestinal

INVOICE NUMBER

34121 The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

DATE

1/11/22



PATIENT 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 per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

Keely Trumble

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

Canine

Pancreas

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. An approximately 1.0 cm round to oblong hypoechoic nodule as noted in the left limb.

BREED

American Bull Terrier

Free Abdomen

There is no evidence of peritoneal effusion. There is no apparent lymphadenopathy.

SEX

Spayed Female

ULTRASONOGRAPHIC FINDINGS

AGE

10 Years

- Hypoechoic pancreatic nodule – Differentials include benign nodular hyperplasia versus infiltrative neoplasia. Given the reported hypoglycemia, an endocrine tumor such as an insulinoma is considered high on the list of differentials.
- Hypoechoic splenic nodule – Can be associated with benign conditions such as extramedullary hematopoiesis or lymphoid hyperplasia as well as infiltrative neoplastic disease such as round cell neoplasia or metastatic disease.

WEIGHT

57.6 Pounds

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recommendations include 3-view thoracic radiographs if not already performed to further evaluate cardiopulmonary status and look for evidence of metastatic disease. A glucose to insulin ratio is recommended. If consistent with insulinoma, then follow up recommendations would include an abdominal CT scan to further evaluate for mets that may not be visible on ultrasound versus proceeding directly to surgery for removal of the insulinoma.

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DACVIM

HOSPITAL NAME

Cascade Pet Hospital

If glucose/insulin ratio is not consistent with an insulinoma, other diagnostics to workup the hypoglycemia include bile acids and an ACTH stimulation test as well as fine needle aspirate of the pancreatic nodules and splenic nodules if patient's coagulation status is appropriate. If the glucose/insulin ratio is supportive of an insulinoma, the fine needle aspirates are considered less necessary in lieu of just proceeding to surgery. In the meantime, medical recommendations include small, frequent feedings +/- steroids to decrease clinical signs while awaiting a diagnosis.

REFERRING VET

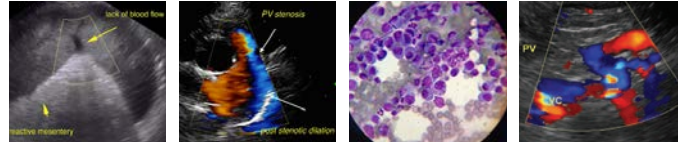
Dr. Cathy Jarrett

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SPECIES

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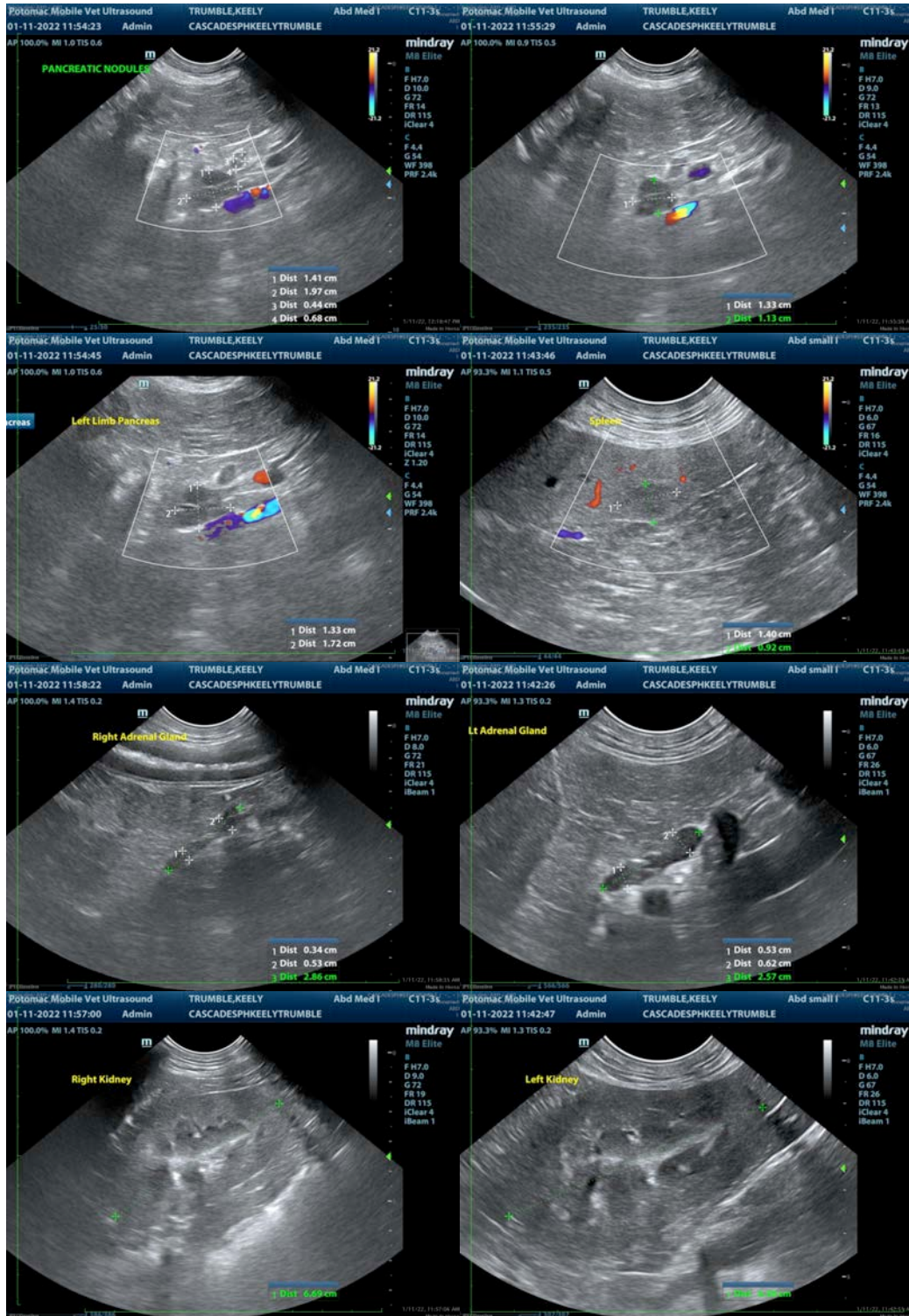
Dr. Cathy Jarrett

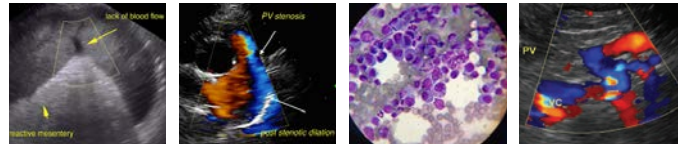
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PATIENT

Keely Trumble

The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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

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American Bull Terrier

SEX

Spayed Female

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