



**PATIENT PRESENTING CLINICAL SIGNS**

Bentley Papalia PU/PD, very itchy

**SPECIES** Abnormal PE/Chem/CBC/UA Results: CBC WNL Chem Phos 6.4 K+5.8 ALT 1270 AST 86 ALP 3557  
GGT 135 U/a sp grav 1.015 UPC 1.7

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED** *Urinary System*

Maltese 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 were noted. Ureteral papillae were normal. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

**SEX**

Spayed Female The **kidneys** revealed idiopathic hyperechoic medullary rim sign with mineralization. The left kidney was mildly subnormal in size at 3.33 cm with minor increased cortical echogenicity. The right kidney was subnormal in size at 3.13 cm with minor increased cortical echogenicity.

**AGE**

13 Years

*Adrenal Glands*

**WEIGHT**

8 Pounds

The **left adrenal gland** was 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. The left adrenal gland measured 0.55 cm in maximum width.

The **right adrenal gland** was mildly heterogeneous, normal size and contour, measuring 0.67 cm at the cranial pole and 0.64 cm at the caudal pole.

**INTERPRETED BY**

Eric Lindquist, DMV

*Spleen*

DABVP, Cert. IVUSS

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 were noted.

**IMAGING PERFORMED BY**

Dr. Scott

*Liver*

**HOSPITAL NAME**

Ho-Ho-Kus VH

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder was mildly echogenic with a minor amount of cystic duct and common bile duct debris.

**REFERRING VET**

Dr. Gannon

*Gastrointestinal*

**INVOICE**

42059

The **gastric fundus** revealed a mineralizing mass measuring 2.8 cm, mineralized. The mass entered into the gastroesophageal inlet. The pyloric outflow was unremarkable with normal curvilinear patterns. Minor muscularis hypertrophy. The small intestine and colon were unremarkable.

*Pancreas*

**DATE**

10/13/22



**PATIENT**

Bentley Papalia

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

- Gastric fundic mass
- Structurally normal adrenal glands
- Non-specific inflammatory hepatopathy with biliary debris
- Bilateral medullary rim sign

**BREED**

Maltese

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SEX**

Spayed Female

Given the position of the mass, gastrinoma is a strong potential in this patient. Structurally normal adrenal glands. However, emerging PDH cannot be completely ruled out. I am most concerned about the gastric mass. Endoscopy with biopsies would be appropriate. Serum gastrin levels indicated. Eventual workup for Cushing's could be considered. Medullary rim sign would suggest tubular degenerative disease.

**AGE**

13 Years

For an additional charge an internal medicine consult can be utilized through [Sonopath.com](http://sonopath.com). You can select the internal medicine drop down at <http://spa.sonopath.com/>.

**WEIGHT**

8 Pounds

One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Scott

**HOSPITAL NAME**

Ho-Ho-Kus VH

**REFERRING VET**

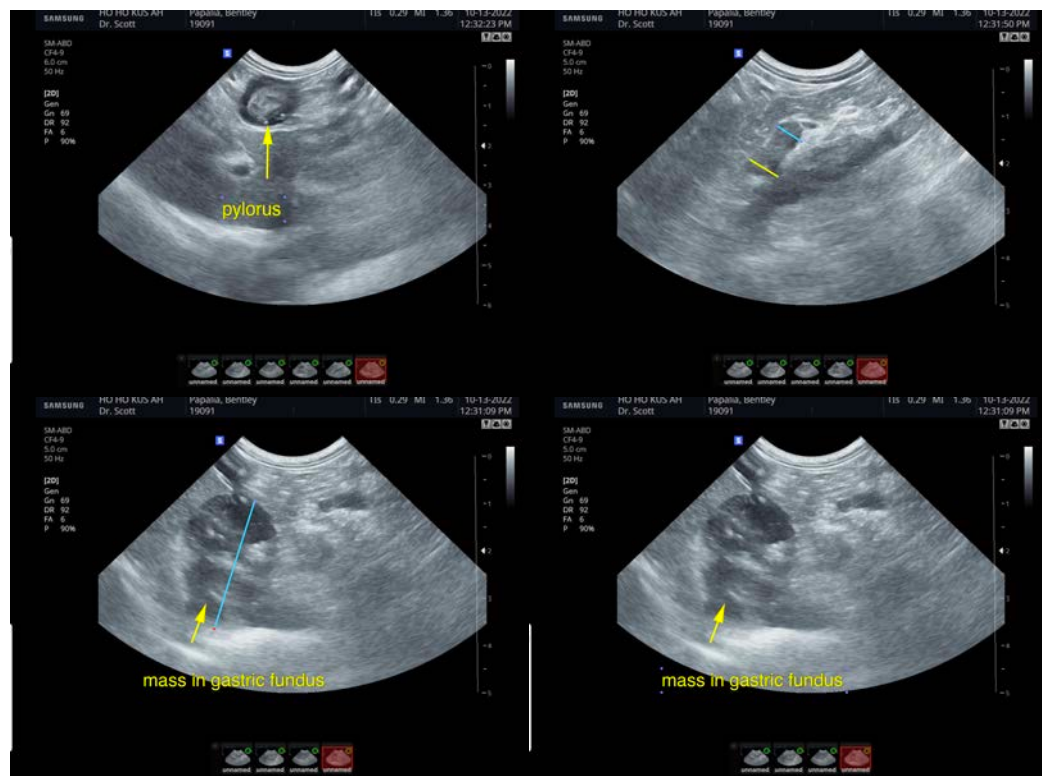
Dr. Gannon

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**PATIENT**

Bentley Papalia

**SPECIES**

Canine

**BREED**

Maltese

**SEX**

Spayed Female

**AGE**

13 Years

**WEIGHT**

8 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

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**IMAGING PERFORMED BY**

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**HOSPITAL NAME**

Ho-Ho-Kus VH

**REFERRING VET**

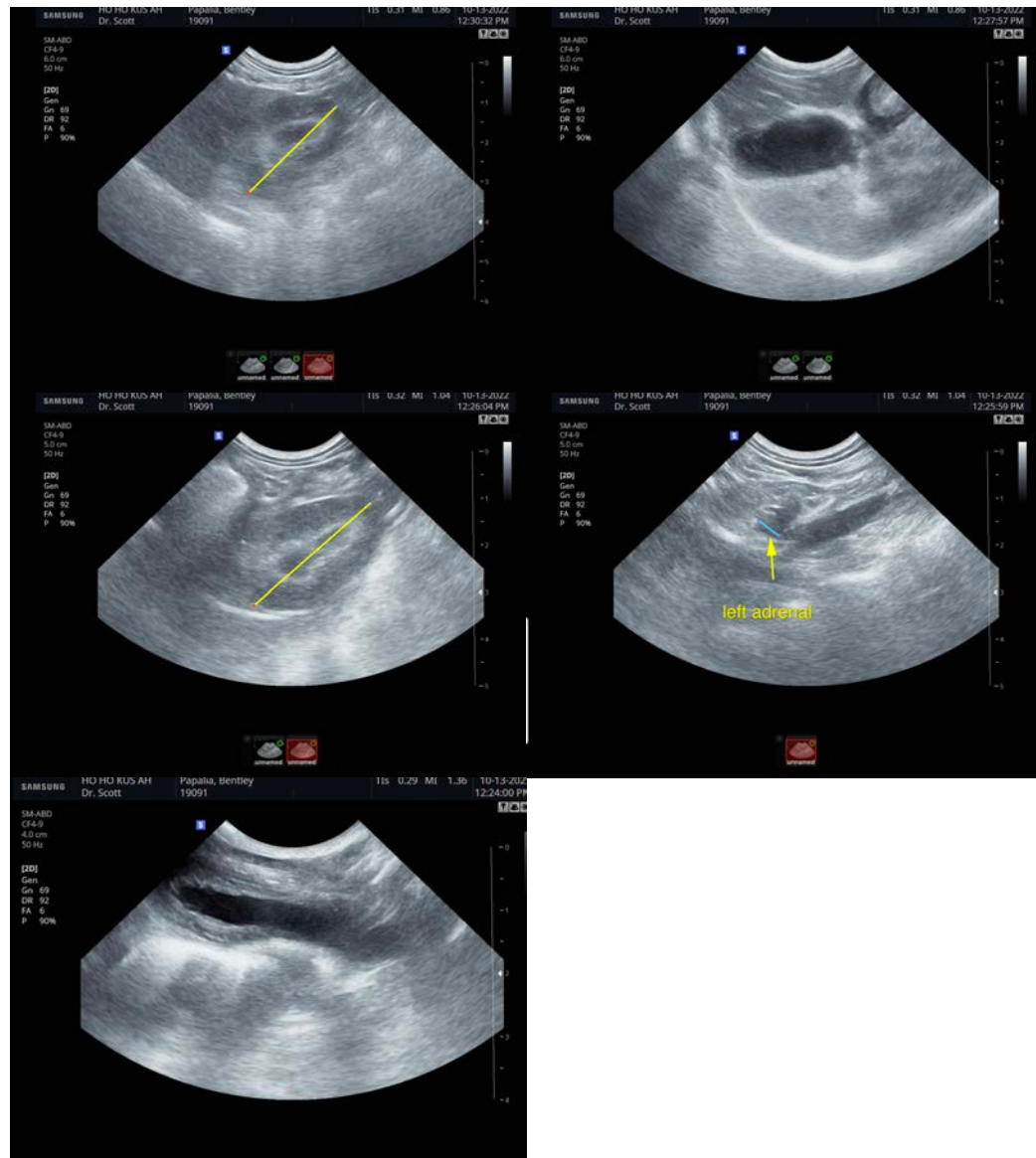
Dr. Gannon

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**DATE**

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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.

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

[info@SonoPath.com](mailto:info@SonoPath.com)