



**PATIENT**

**PRESENTING CLINICAL SIGNS**

Tobey Tomko

History: Anorexic, not eating, elevated Kidney, liver and pancreatic values

**SPECIES**

Abnormal PE/Chem/CBC/UA Results: ALK PHOS 547, BUN 74, CREAT 1.7, SDMA 23.4 AMYLASE 1155  
WBC 21.9PSL 424

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

Chihuahua

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**

Neutered Male

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Nonobstructive mineralization was present in the kidneys. The right kidney measured 3.04 cm. The left kidney measured 2.97 cm.

**AGE**

13 Years

**WEIGHT**

2.5

**Adrenal Glands**

Both **adrenal glands** were 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 1.05 cm x 0.33 cm at the caudal pole.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Spleen**

The **spleen** in this patient was uniform, yet volume contracted. Hydration status should be assessed.

**IMAGING PERFORMED BY**

JK

**Liver**

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some minor 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. Dependent and suspended gallbladder calculi were noted. The cystic and common bile ducts were normal. Occasional hypoechoic nodules were noted.

**HOSPITAL NAME**

Hamburg VC

**REFERRING VET**

**Gastrointestinal**

Dr. Branning

Some retention of ingesta was noted in the **stomach**. The upper duodenum was thickened in this patient, measuring 1.5 cm, strongly suggestive for a neoplastic process, and appears to be obstructive, as retention of ingesta was noted in the stomach.

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**Pancreas**

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.

**DATE**

5/5/23



## PATIENT

### Free Abdomen

Tobey Tomko

The region medial to the spleen and left kidney revealed a **cystic structure**, likely pancreatic origin, however, could not be completely ascertained, as interfering artifact was present.

## SPECIES

Canine

## BREED

Chihuahua

## ULTRASONOGRAPHIC FINDINGS

- Undefined cystic structure in the left cranial abdomen
- Obstructive upper GI pattern with duodenal thickening, strong concern for neoplasia
- Moderate degenerative renal changes with mineralization
- Volume contracted spleen
- Age-related hepatic changes with occasional hypoechoic nodules and gallbladder calculi

## SEX

Neutered Male

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Prognosis is very guarded. Exploratory surgery may be the best option in this patient. However, the upper duodenal thickening would not likely be resectable. The cause of the cystic structure in the left abdomen is unclear. The kidneys appear subjectively end-stage.

## AGE

13 Years

## WEIGHT

2.5

## INTERPRETED BY

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DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

JK

## HOSPITAL NAME

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## REFERRING VET

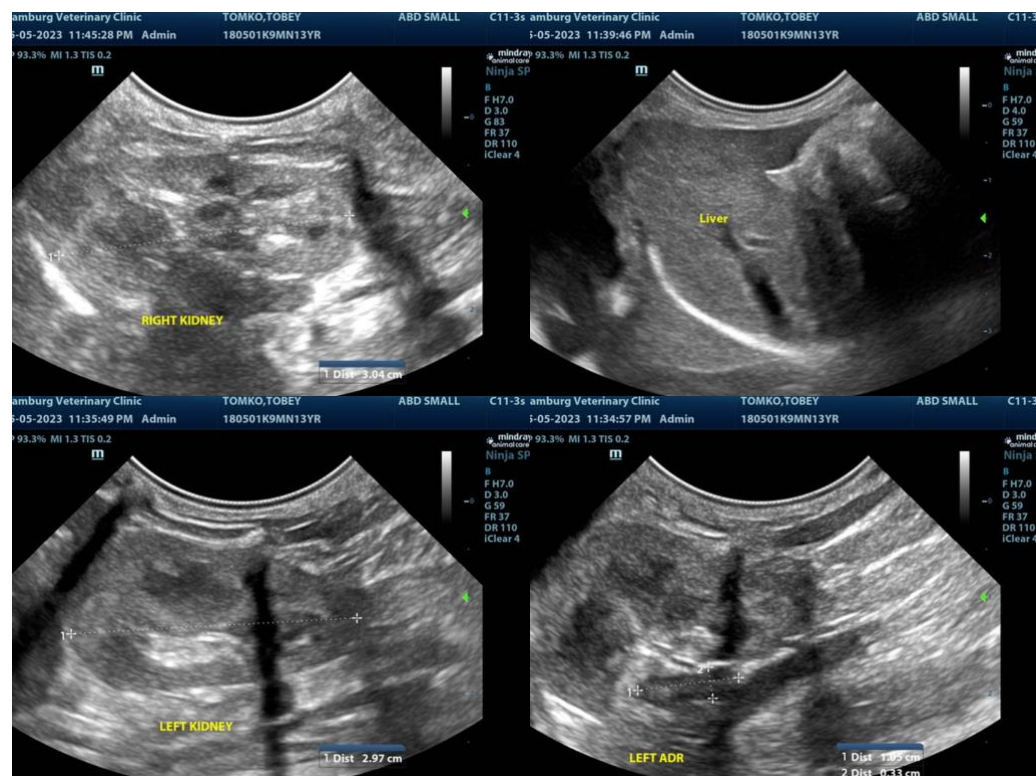
Dr. Branning

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## DATE

5/5/23





**PATIENT**

Tobey Tomko

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

Neutered Male

**AGE**

13 Years

**WEIGHT**

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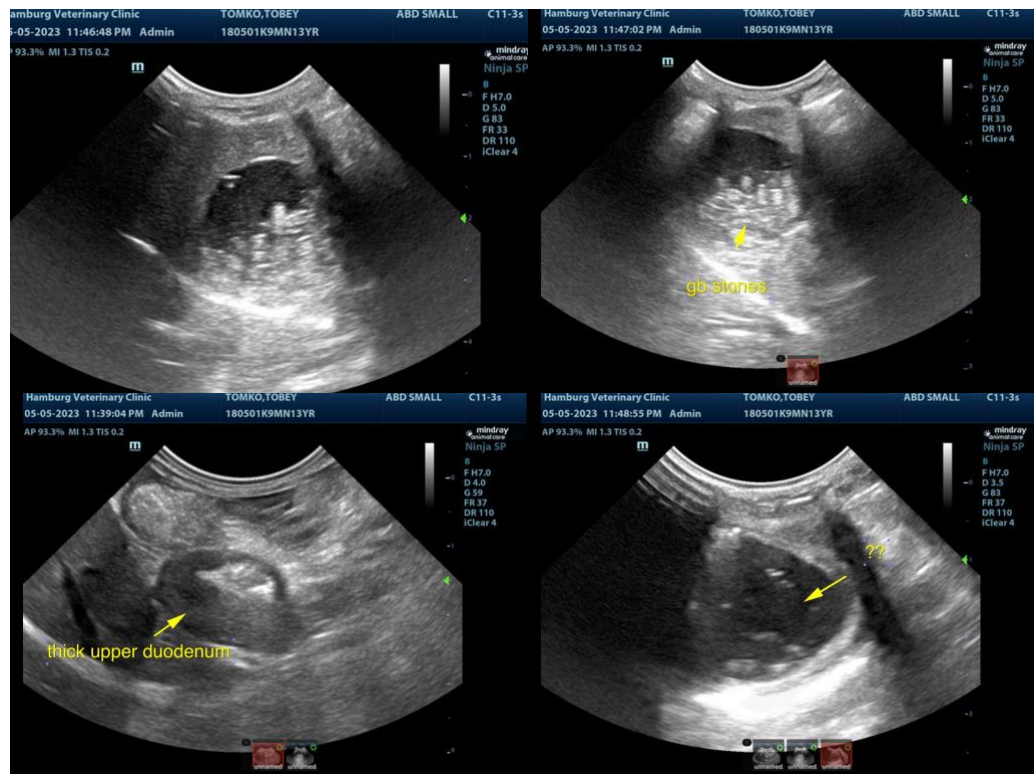
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**DATE**

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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.

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  
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