



PATIENT	PRESENTING CLINICAL SIGNS
Cocoa Hong	Patient presented for excessive food and water intake as well as excessive urination. Possible tumor in the liver and possible pancreatitis.
SPECIES	The submitted study contained 24 still images and 9 videos for review.
Canine	
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Chihuahua	Urinary System
SEX	The urinary bladder, trigone, and cystourethral junction exhibited normal thickness and tone. Anechoic urine was present in the lumen with no evidence of urine or lumen sediment, mineral, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.
FS	
AGE	No evidence of pathology in the area of the aortic trifurcation.
15 y, 1 m	
WEIGHT	Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. Mild left kidney pyelectasia was present. The left kidney measured 3.8 cm in length. The right kidney measured 4.0 cm in length.
8.3 lbs.	
INTERPRETED BY	Adrenal Glands
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The bilateral adrenal glands exhibited mild parenchyma heterogeneity and mild capsule asymmetry without suspicion for overt neoplasia. The left adrenal gland exhibited subjective mild enlarged caudal pole, measuring 0.62 cm width in the caudal pole. The right adrenal gland was normal in size, measuring 0.43 cm width in the caudal pole.
IMAGING PERFORMED BY	Spleen
Dr. Paul Kim	The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.
HOSPITAL NAME	Liver/ Gallbladder
Ridgefield Park AH	The liver presented generalized enlargement. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. Mixed
REFERRING VET	
Dr. Paul Kim	
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PATIENT	echogenic to nonuniform focally cystic mass was present in the subjective right lateral to caudate liver, measuring 5.0 cm in diameter.
Cocoa Hong	The gallbladder was non-distended in size containing primarily anechoic content with mild to moderate, nonorganized gallbladder debris.
SPECIES	
Canine	<i>Gastrointestinal</i>
BREED	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty without evidence of retained ingesta, fluid, or foreign material.
Chihuahua	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.
SEX	
FS	Normal visible colon wall layers were present with apparent formed feces in lumen.
AGE	<i>Pancreas</i>
15 y, 1 m	The pancreas was normal in size with symmetrical contour exhibiting heterogeneous to remodeled, mildly hyperechoic parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.
WEIGHT	<i>Free Abdomen</i>
8.3 lbs.	No overt lymphadenopathy or peritoneal effusion was present.
INTERPRETED BY	ULTRASONOGRAPHIC FINDINGS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	<ul style="list-style-type: none"> • Normal urinary bladder • Chronic renal changes with mild left kidney pyelectasia • Hepatomegaly with liver mass • Nonorganized gallbladder debris (non-mucocele) • Probable chronic pancreatitis with remodeling • Sonographically normal gastrointestinal tract • Age-related adrenals with mild caudal left adrenomegaly
IMAGING PERFORMED BY	
Dr. Paul Kim	
HOSPITAL NAME	
Ridgefield Park AH	
REFERRING VET	
Dr. Paul Kim	
INVOICE	<u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u>
10404	Correlation with lab work and urinalysis is recommended. Assuming normal clotting status, hepatic parenchyma and mass FNA cytology is warranted for further clarification. Adrenal workup with LDDST, urine C/S, and a GI panel to include PLI/TLI/Cobalamin/Folate may be considered.
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Cocoa Hong

SPECIES

Canine

BREED

Chihuahua

SEX

FS

AGE

15 y, 1 m

WEIGHT

8.3 lbs.

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R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Paul Kim

HOSPITAL NAME

Ridgefield Park AH

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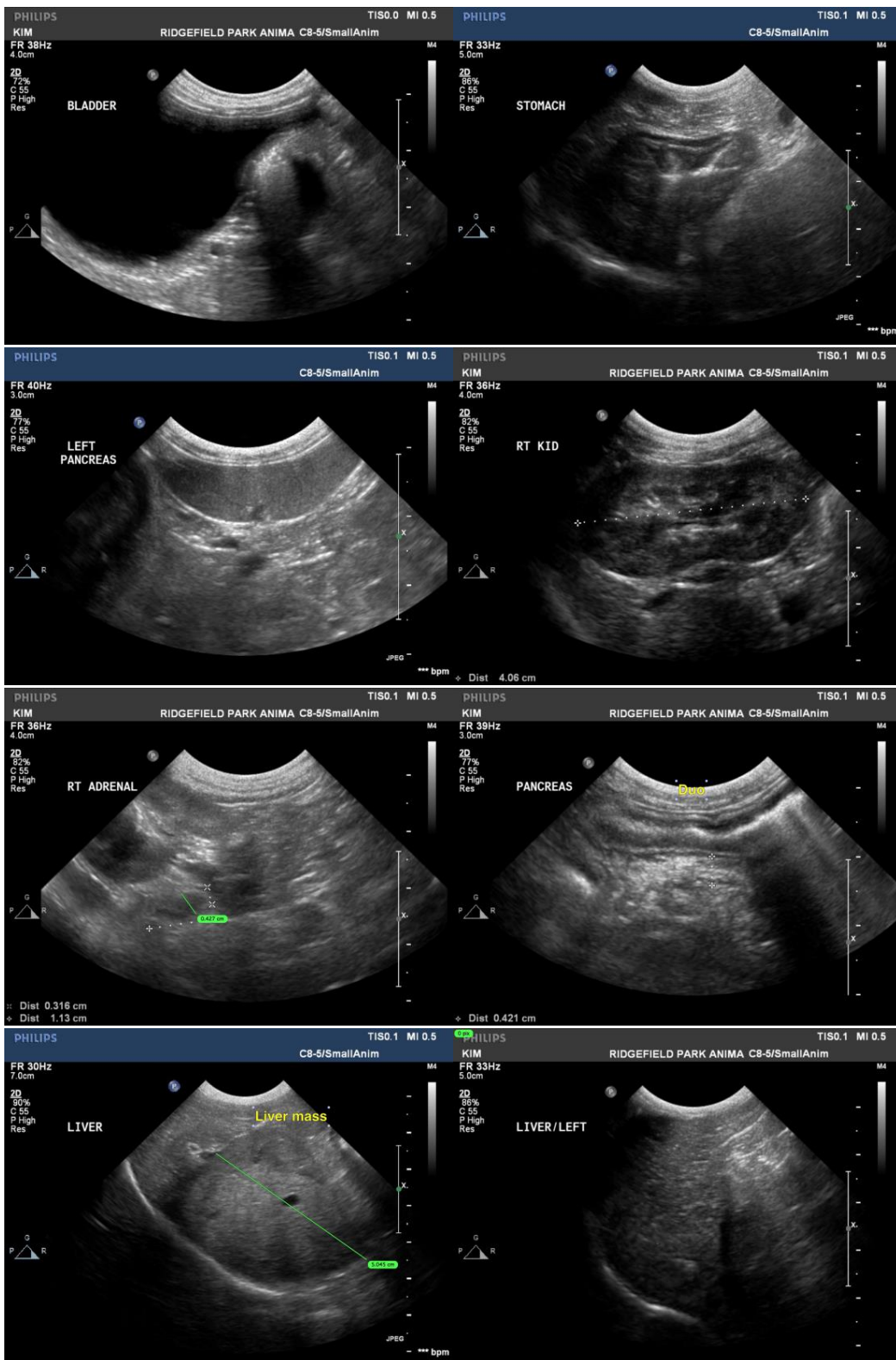
Dr. Paul Kim

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Cocoa Hong

SPECIES

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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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
info@sonopath.com