



PATIENT

Hunter Petry

SPECIES

Canine

BREED

Yorkie

SEX

Neutered Male

AGE

11

WEIGHT

7.6

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP (Canine
/ Feline Practice)

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway Animal
Hospital

REFERRING VET

Dr. Dubos

INVOICE

16113

DATE

05/12/26

PRESENTING CLINICAL SIGNS

Increased RR, RE collapsing trachea distended abd , concern for atelectasis/pneumonia/neoplasia
Current meds Pred Zenquin , Clav cough tabs

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

| CANINE CARDIAC PARAMETERS | MR VMAX (m/s) | TR VMAX (m/s) | LA/AO (M-Mode) | LA/AO (Heart Base; Swe) | FS (%) | EF (%) | EPSS (cm) |
|---------------------------|---------------|---------------|----------------|-------------------------|----------------------|--|--|
| NORMAL PARAMETER | 4.5-5.5 | <2.7 | 1.3 | Up to 1.6 | 28-40 | 40-100 | <0.6 |
| PATIENT | -- | -- | NM | 1.36 | 42 | 70 | 0.2 |
| CANINE CARDIAC PARAMETERS | HR (BPM) | AV VMAX (m/s) | PV MAX (m/s) | BODY WEIGHT | LAD LA MAX 4 Chamber | LVIDd Avg; 2D and m-mode short axis (cm) | LVIDs Avg; 2D and m-mode short axis (cm) |
| NORMAL PARAMETER | 50-100 | 0.7-1.7 | 0.7-1.6 | | | | |
| PATIENT | NM | 1.0 | 0.6 | 7.6 | 2.0 | 1.8 | -- |

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** dimension based on 2 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. No overt MR on doppler. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. No overt TR on doppler. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window. No evidence of arrhythmogenic activity.

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with two visualized cystic calculi in the dependent lumen with an example measuring 0.6 cm in diameter. The ureteral



PATIENT

Hunter Petry

papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic change were noted.

SPECIES

Canine

No obvious pathology in the area of the residual prostate.

The area of the aortic trifurcation was free of pathology.

BREED

Yorkie

Normal size and margination was 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. Medullary mineral to small renoliths were present bilaterally. The left kidney measured 4.0 cm in length. The right kidney measured 4.0 cm in length.

SEX

Neutered Male

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.52 cm width at the caudal pole.

AGE

11

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.46 cm width at the caudal pole.

WEIGHT

7.6

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP (Canine
/ Feline Practice)

Liver & Gallbladder

The liver presented enlarged in size. 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.

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway Animal
Hospital

Transdiaphragmatic view revealed focal comet tail lung pattern, which is echogenic sound wave interface with microconsolidations within the caudal lung field. The lung field should not be visualized by sonogram unless pathology is present. Chest radiographs are recommended to rule out alveolar/lung disease such as neoplasia, thromboembolic disease, chronic inflammatory disease with microconsolidation.

REFERRING VET

Dr. Dubos

The gallbladder was non distended in size with mild gravity dependent nonorganized biliary sludge. The cystic duct and common bile ducts were normal without evidence of dilation.

INVOICE

16113

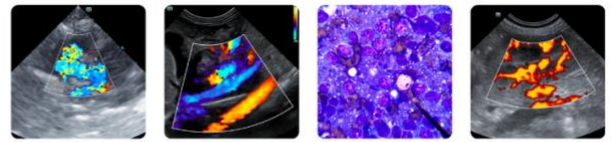
Gastrointestinal

DATE

05/12/26

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

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.



PATIENT

Normal visible colon wall layers were present with apparent formed feces in lumen.

Hunter Petry

Pancreas

SPECIES

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

Canine

BREED

Free Abdomen

Yorkie

No overt lymphadenopathy or peritoneal effusion was present.

SEX

ULTRASONOGRAPHIC FINDINGS

Neutered Male

- Overall normal cardiac structure/function.
- Mild noncongested hepatomegaly- subjective benign.
- Mild gallbladder debris (non-mucocele).
- Small urinary bladder calculi.
- Chronic renal changes exhibiting medullary mineral/small renoliths.
- Focal transdiaphragmatic comet tail artifact.

AGE

11

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

7.6

No obvious visualized pericardial pulmonary pathology in the visible window, although primary lower airway disease is indicated yet without evidence of structural or functional cardiomyopathy, evidence of clinical pulmonary hypertension and transdiaphragmatic comet tail artifact indicative of non-specific primary lower airway disease. Correlation with three view chest radiographs is recommended.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP (Canine
/ Feline Practice)

No indication for cardiac medication. No evidence of intra-abdominal neoplastic criteria as an obvious contributing factor. Hepatosupportive medications may be considered if evidence of cholestasis. Urinary work up is recommended if not done.

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway Animal
Hospital

REFERRING VET

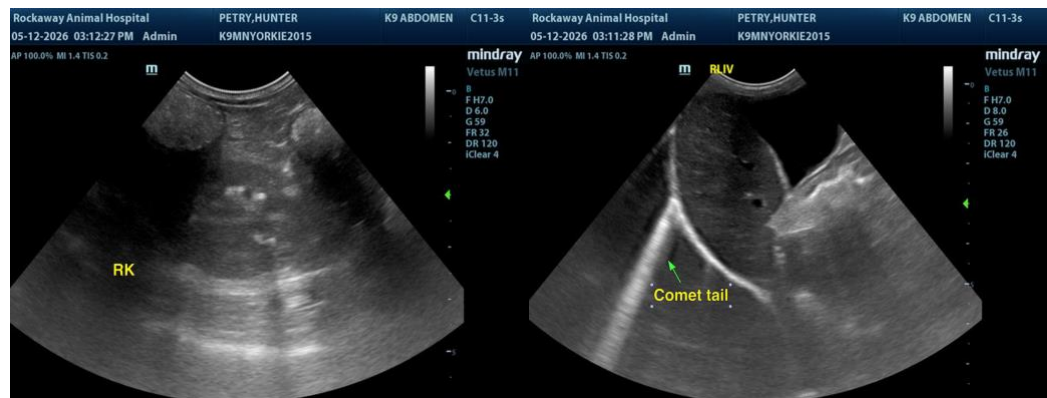
Dr. Dubos

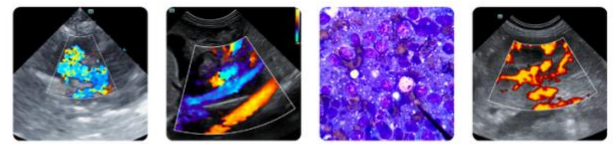
INVOICE

16113

DATE

05/12/26





PATIENT

Hunter Petry

SPECIES

Canine

BREED

Yorkie

SEX

Neutered Male

AGE

11

WEIGHT

7.6

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP (Canine
/ Feline Practice)

**IMAGING
PERFORMED BY**

Jenn

HOSPITAL NAME

Rockaway Animal
Hospital

REFERRING VET

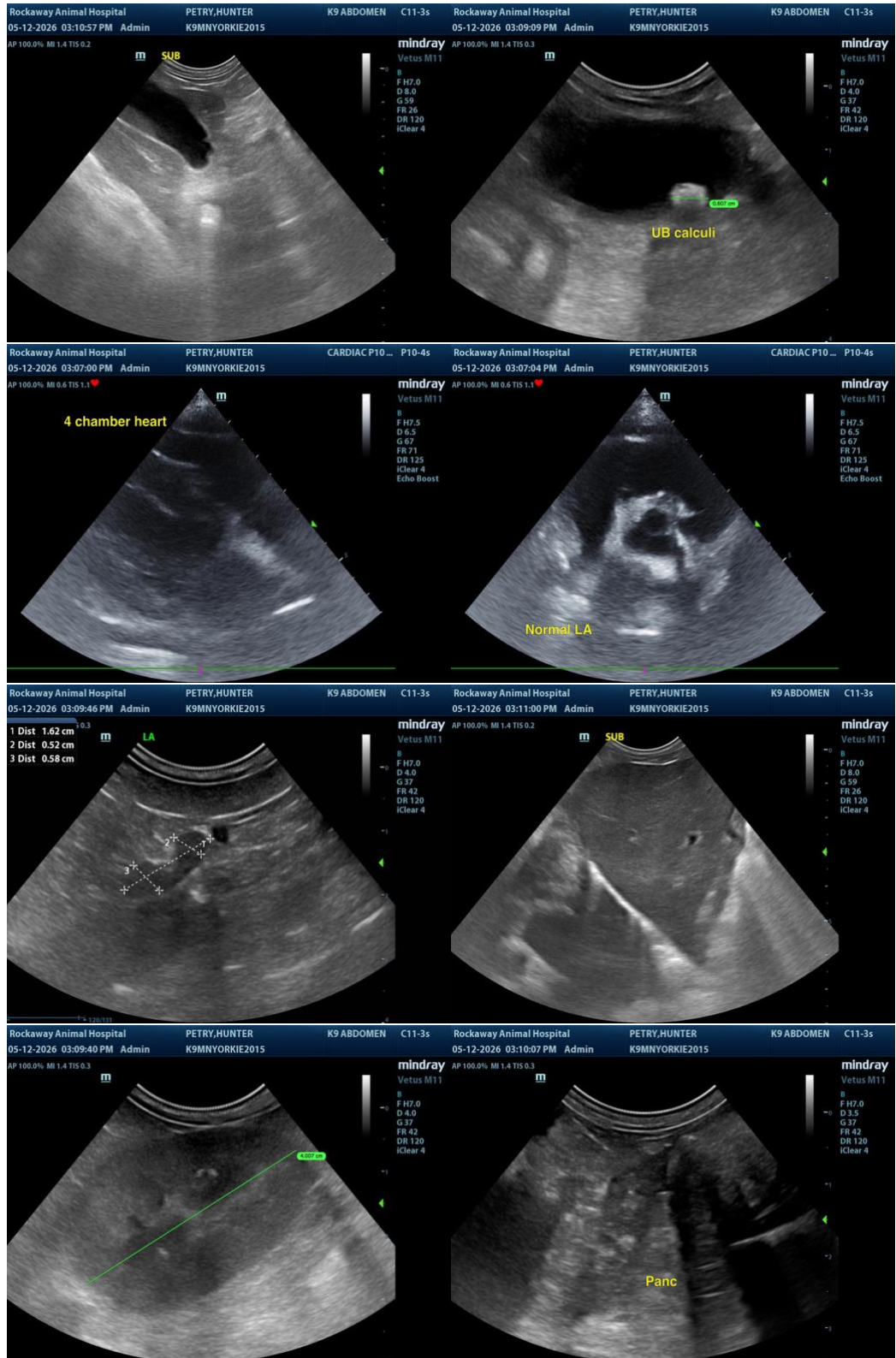
Dr. Dubos

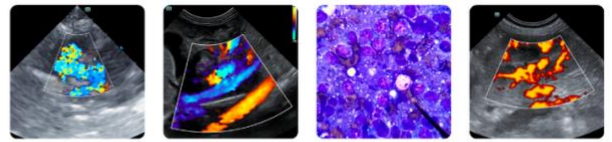
INVOICE

16113

DATE

05/12/26





PATIENT

Hunter Petry

SPECIES

Canine

BREED

Yorkie

SEX

Neutered Male

AGE

11

WEIGHT

7.6

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP (Canine
/ Feline Practice)

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway Animal
Hospital

REFERRING VET

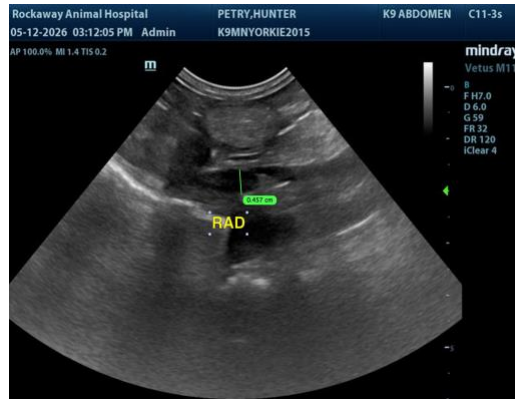
Dr. Dubos

INVOICE

16113

DATE

05/12/26



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