



PATIENT

Franki Ortiz

SPECIES

Canine

BREED

Maltese Mix

SEX

Neutered Male

AGE

11

WEIGHT

9

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP

PRESENTING CLINICAL SIGNS

4 day hx of lethargy anorexia crackles heard in all lung fields , no obvious HM VHS 12.81 on rads Hx of splenectomy in 2022 Current meds Lasix Cerenia Pantoprazole

Abnormal PE/Chem/CBC/UA Results: WBC 29K Neut 18.42 Mono 5.85 ALP 324 CPL 299 all else WNL Anaplasma +

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 | NM | 40 | 74 | 0.1 |
| CANINE CARDIAC PARAMETERS | HR (BPM) | AV VMAX (m/s) | PV MAX (m/s) | BODY WEIGHT (kg) | 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 | -- | -- | -- | 1.9 | 2.0 | -- |

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway Animal Hospital

REFERRING VET

Dr. Kahn

INVOICE

12368

DATE

11/21/25

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on LA 2D measurement method. The cranial and caudal **mitral** valve leaflets presented thickening consistent with endocardiosis. The **left ventricle** presented normal thicknesses with mild alinear contour and was not dilated nor restricted. Subjective flattened IVS. The **myocardium** presented normal echogenicity with mild myocardial remodeling. **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 subjective laminar flow and normal structural integrity. The **right atrium** and auricle revealed severe increased size. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated thickening with indistinct TR on doppler. The **right ventricle** exhibited significant increased dimension compared to the LV normal myocardial echogenicity and subjective free wall thickness. **Pulmonic** tract assessment revealed subjective normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of cardiac / pericardial tumors was visible.

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The



| | |
|-----------------------------------|---|
| PATIENT | ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic change were noted. |
| Franki Ortiz | |
| SPECIES | Transdiaphragmatic view revealed mild 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. |
| Canine | |
| BREED | 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. No evidence of pelvic dilation was present. The left kidney measured 4.1 cm in length. The right kidney measured 4.6 cm in length. |
| Maltese Mix | |
| SEX | |
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| AGE | Adrenal Glands |
| 11 | The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.41 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.36 cm width at the caudal pole. |
| WEIGHT | Spleen |
| 9 | The spleen was not visualized owing to previous splenectomy. No evidence of pathology in the area of the splenic fossa. |
| INTERPRETED BY | Liver |
| R. McKenzie Daniel, DVM, DABVP | The liver presented mildly 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. Current normal hepatic vascular volume. |
| IMAGING PERFORMED BY | The gallbladder was normal in size with mild nonorganized biliary sludge. No evidence of wall edema. The common bile duct was not visualized. |
| Jenn | |
| HOSPITAL NAME | Gastrointestinal |
| Rockaway Animal Hospital | 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. |
| REFERRING VET | 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. |
| Dr. Kahn | |
| INVOICE | Normal visible colon wall layers were present with apparent formed feces in lumen. |
| 12368 | |
| DATE | Pancreas |
| 11/21/25 | 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. |



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Free Abdomen

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No evidence of current ascites. No visualized significant omental lymphadenopathy.

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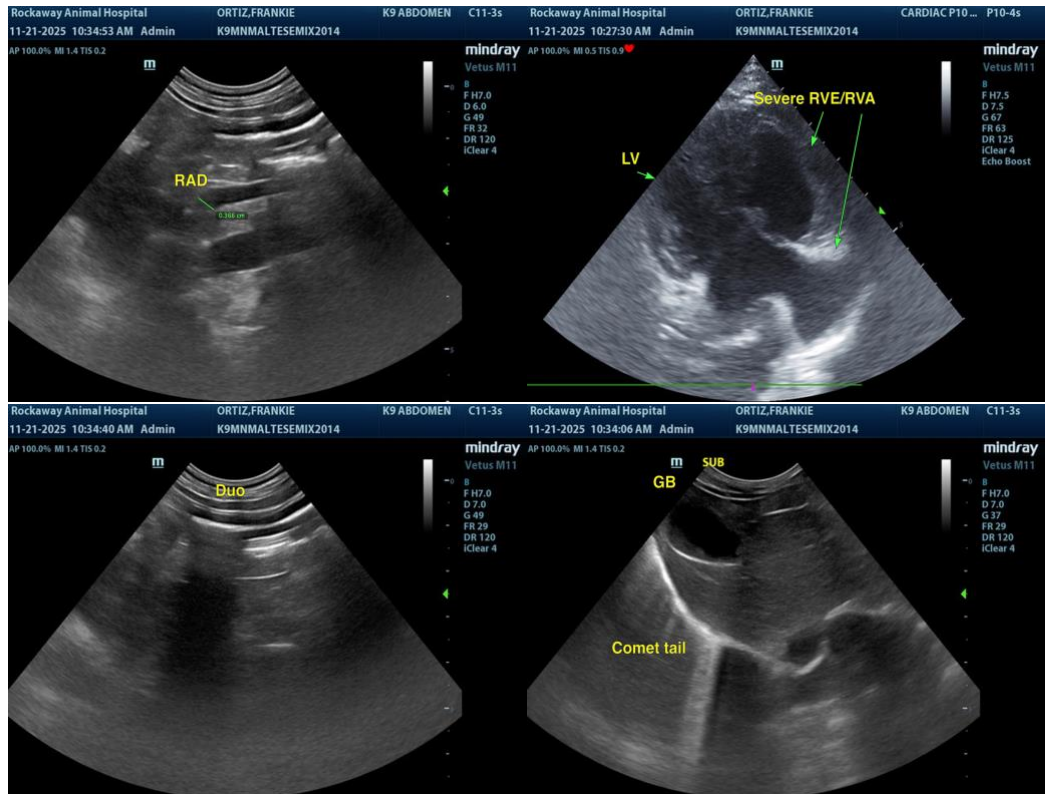
ULTRASONOGRAPHIC FINDINGS

- Compensated mitral valve disease (B1).
- Severe RA/RV enlargement with thickened tricuspid valve and indistinct TR.
- Mildly enlarged noncongested liver.
- Nonedematous gallbladder with mild nonorganized bile debris (non-mucocele).
- Nonvisualized spleen- previous splenectomy.
- Age-related renal changes.
- Normal gastrointestinal tract/area of pancreas.
- Mild transdiaphragmatic comet tail artifact.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The severe increased RA/RV dimension is consistent with right-sided heart disease and may indicate emerging right heart failure or significant pulmonary hypertension. Currently, no evidence of clinical right-sided heart failure without hepatic congestion or cranial abdomen ascites. If clinical signs are consistent with pulmonary hypertension, Sildenafil 1.0 to 3.0 mg/kg PO BID empirically and clinical monitoring could be considered. Ideally, a cardiology referral is indicated for further clarification.

Noncongested vacuolar hepatopathy criteria is probable. Gastrointestinal support and empirical therapy for low-grade pancreatitis which may present sonographically normal, would be appropriate.





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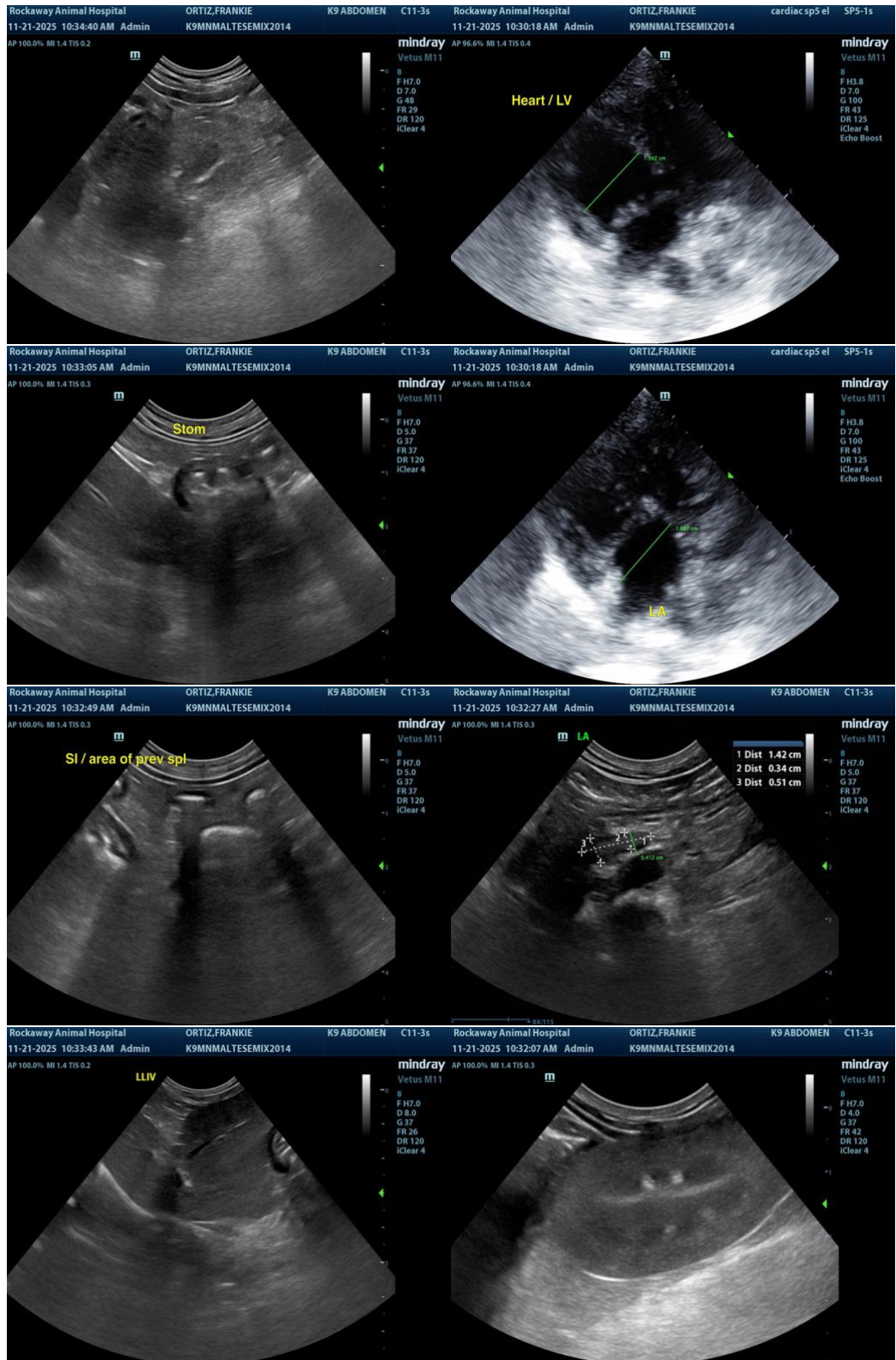
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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