



PATIENT

Tootsie Roll Brehmer

SPECIES

Canine

BREED

Pitbull/Mix

SEX

Intact Female

AGE

3 years

WEIGHT

55.8

INTERPRETED BY

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

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

Dr. Seneczko, Genoa
AH

INVOICE

13115

DATE

1/3/22

PRESENTING CLINICAL SIGNS

Presented as a second opinion for chronic coughing. Previously was heartworm positive and was treated in 10/21. Previous chest rads taken on 12/10/21 reveal an enlarged heart. Has been on Lasix 20mg 1 BID and hydrocodone as needed for cough along with prednisone with no change in cough.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	4.8	2.1	NM	1.25	36.8	70.1	0.25
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LA 2D short axis Base view (cm)	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	76	1.3	1.0	--	4.0	3.8	--

Cardiac Presentation

The **echocardiogram** in this patient presented subjective subtle prominent **right ventricle** size with potential subtle **right ventricular** hypertrophy with minor **tricuspid** regurgitation on color doppler assessment, and normal **right atrial** size. No evidence of neoplasia was noted in the right auricle, or elsewhere in the heart. The **pulmonary artery** was overtly normal in size compared to the aorta with normal pulmonic velocity measured on PW doppler as well as laminar flow present on CW doppler. Trace pulmonic valve insufficiency was present. No overt heartworms were noted in the main or visible deep pulmonary arteries. Theoretically, heartworms could still be present in the deep pulmonary vasculature out of visible sonographic range. More likely, however, the subtle subjective prominent right heart may be secondary to increased intra-thoracic pressures caused by chronic lower airway disease or secondary effects owing to previous heartworm infection. The **left heart** demonstrated a linear **ventricular septum**. Contractility was functionally adequate demonstrated by the FS% measurement. The **mitral valve** exhibited overtly normal structure with normal extension and systole union and diastole and normal kinesis. Mild eccentric insufficiency present on color doppler assessment. The **left ventricular outflow** demonstrated normal flow patterns and velocities through the aortic valve. No evidence of tumor, pericardial or pleural effusion was noted. The visible **extra-cardiac** tissues were uniformly linear without evidence of masses, infiltrative or inflammatory mediastinal tissue. No evident arrhythmic activity was noted during the exam.

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac function



PATIENT

- Subtle subjective prominent right ventricle-potential mild cor pulmonale

Tootsie Roll Brehmer

- Mild MR/TR

SPECIES

- Trace PV insufficiency

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

BREED

Overall, no evidence of significant cardiac, specifically RA or RV, changes or enlargement owing to heart worm disease. No other clinical issues such as LV systolic dysfunction, clinical pulmonary hypertension or concern for emerging right heart failure noted. Given this presentation, noncardiogenic cough, potentially owing to chronic lower airway disease or secondary lower airway changes owing to heartworm disease is most likely. No indication for cardiac medications. Continued (as needed) respiratory support recommended. No anesthetic contraindications if anesthesia is required. Suggested anesthetic protocol may include opioid or Benzodiazepine pre-med, induction with Propofol or Alfaxalone, and appropriate gas anesthesia with avoidance of alpha 2 agonists.

Pitbull/Mix

SEX

Intact Female

AGE

3 years

WEIGHT

55.8

INTERPRETED BY

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

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

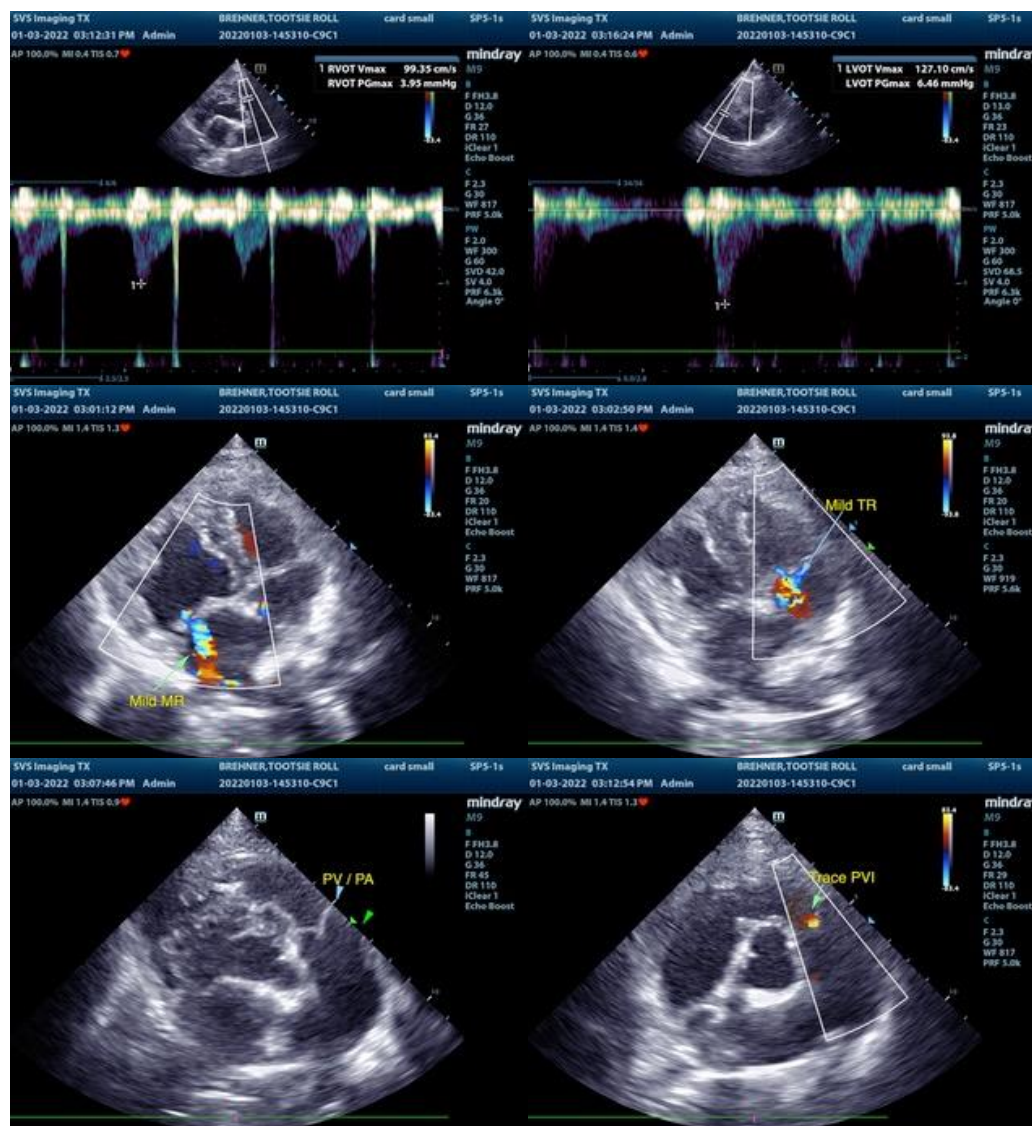
Dr. Seneczko, Genoa
AH

INVOICE

13115

DATE

1/3/22





PATIENT

Tootsie Roll Brehmer

SPECIES

Canine

BREED

Pitbull/Mix

SEX

Intact Female

AGE

3 years

WEIGHT

55.8

INTERPRETED BY

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

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

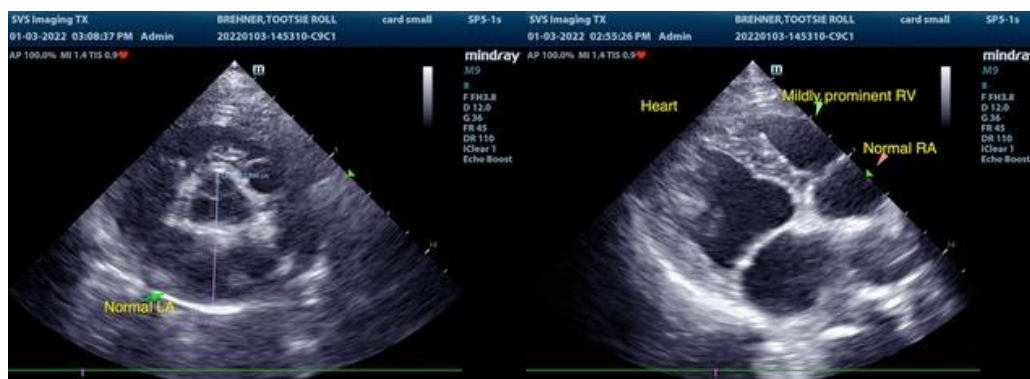
Dr. Seneczko, Genoa
AH

INVOICE

13115

DATE

1/3/22



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.

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