



PATIENT

Angel Rastogi

SPECIES

Canine

BREED

Chihuahua

SEX

Female

AGE

13 Years 10 Months

WEIGHT

11.3 pounds

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP(CFM), Cert.
 IVUSS

IMAGING PERFORMED BY

Rebecca Hamilton

HOSPITAL NAME

Flanders Veterinary
 Clinic

REFERRING VET

Dr. Kyle-Label

INVOICE

13817

DATE

02/16/26

PRESENTING CLINICAL SIGNS

- needs dental (has tooth access) prev. Vet wants echo done prior.
- heart murmur (grade 2-3/6) cardiac murmur
- mild crackles auscultation in lungs (owner declined rads on Friday)
- meds: Clavamox and Gabapentin

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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	5.03	2.47	1.2	1.4	30	49	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (lbs)	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	121	2.0	0.71	11.3	2.1	2.0	--

Cardiac Presentation

The echocardiogram presented a prominent **right heart** with mild **right ventricular** hypertrophy, **tricuspid** regurgitation was evident with dilated **right atrium**. Aortic insufficiency was present measuring 5.54 m/s. No evidence of neoplasia was noted in the right auricle, or elsewhere in the heart. The **pulmonary artery** was uniformly prominent. No overt heartworms were noted in the main or visible deep pulmonary arteries. Yet theoretically heartworms could be present in the deep pulmonary vasculature out of visible sonographic range. More likely, however, this prominent right heart is due to excessive intra-thoracic pressures caused by respiratory disease or other causes of increased thoracic vascular pressure. The **left heart** demonstrated a linear **ventricular septum**. Contractility was functionally adequate demonstrated by the FS% measurement. The **mitral valve** revealed insufficiency, and no significant **left atrial** dilation was evident. 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

- Cor pulmonaly with mitral and tricuspid insufficiency.
- Right-sided volume overload.



PATIENT

Angel Rastogi

SPECIES

Canine

BREED

Chihuahua

SEX

Female

AGE

13 Years 10 Months

WEIGHT

11.3 pounds

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP(CFM), Cert.
 IVUSS

IMAGING PERFORMED BY

Rebecca Hamilton

HOSPITAL NAME

Flanders Veterinary
 Clinic

REFERRING VET

Dr. Kyle-Label

INVOICE

13817

DATE

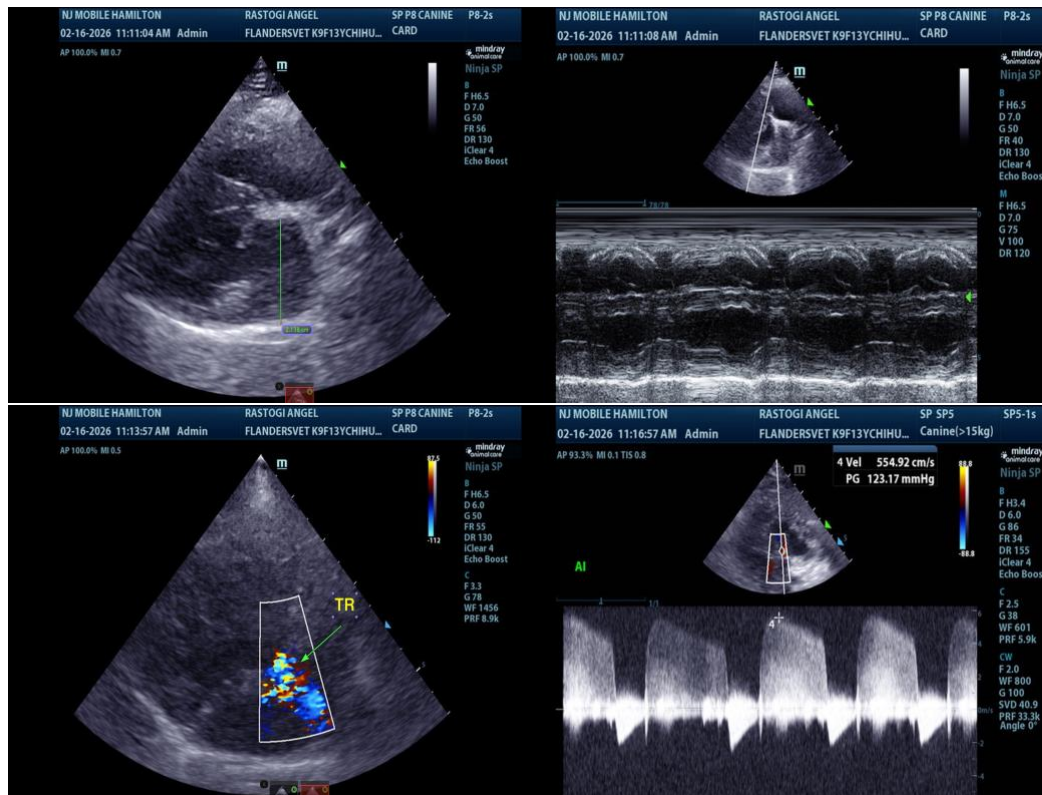
02/16/26

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Systemic hypertension may be an issue given the aortic insufficiency. The hepatic veins were not dilated, therefore, clinical pulmonary hypertension is unlikely.

Recommend serial blood pressure in this patient, Telmisartan or ACE inhibitor would be indicated if systolic blood pressure is greater than 160. The chronic pulmonary disease is likely playing a role in the right-sided enlargement.

No overt contraindication for anesthesia of brief to moderate duration. Recommend the following protocol if systolic blood pressures are less than 160. I suggest Torbutrol premed, Propofol induction, Isoflor maintenance or similar protocol if anesthesia is desired. Blood pressure, EKG and chest radiographs are recommended if not already performed. Target white coat negative systolic pressure of < 160 mmHg. If higher than this ACE-inhibitor is suggested to reach this level. Recheck echocardiogram is recommended in 6-12 months, earlier if murmur grade increases or clinical signs initiate. However, pulse oximetry and adequate ventilation rapid procedure is recommended without excessive anesthesia.





PATIENT

Angel Rastogi

SPECIES

Canine

BREED

Chihuahua

SEX

Female

AGE

13 Years 10 Months

WEIGHT

11.3 pounds

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP(CFM), Cert.
 IVUSS

IMAGING PERFORMED BY

Rebecca Hamilton

HOSPITAL NAME

Flanders Veterinary
 Clinic

REFERRING VET

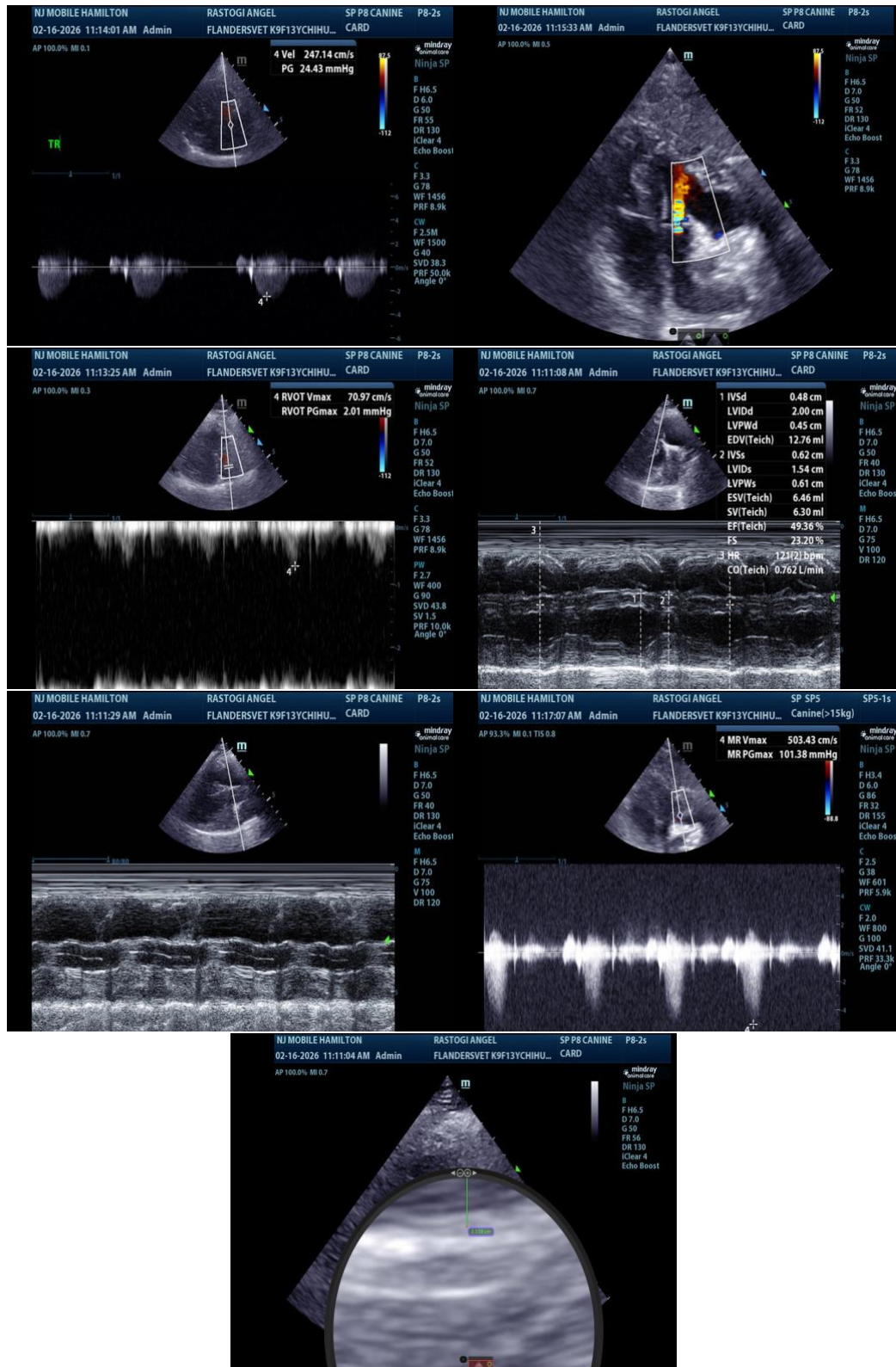
Dr. Kyle-Label

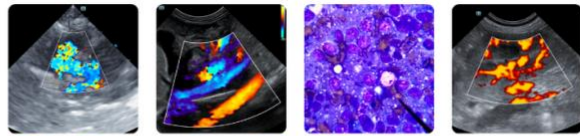
INVOICE

13817

DATE

02/16/26





PATIENT

Angel Rastogi

SPECIES

Canine

BREED

Chihuahua

SEX

Female

AGE

13 Years 10 Months

WEIGHT

11.3 pounds

INTERPRETED BY

Eric Lindquist, DMV,
DABVP(CFM), Cert.
IVUSS

**IMAGING
PERFORMED BY**

Rebecca Hamilton

HOSPITAL NAME

Flanders Veterinary
Clinic

REFERRING VET

Dr. Kyle-Labell

INVOICE

13817

DATE

02/16/26

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.

Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS,

CEO, Owner, Founder -- SonoPath.com

info@SonoPath.com