



PATIENT

Velvet Agape Palmer

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

4 Years

WEIGHT

10.75

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Jocelyn Hollway

HOSPITAL NAME

Seven Valleys
Veterinary Hospital

REFERRING VET

Dr. Deihl

INVOICE

11222

DATE

11/11/25

PRESENTING CLINICAL SIGNS

HX of struvite crystals in urine. Initially presented for PE/Vx 9/2025, and a new HM was identified. No C/S/V/D. E/D/U/D all WNL. Eats a renal support diet. 10/27/25: CBC - Hemoglobin 16.6g/dL range 9.8-16.2 Platelets 58K/ μ L range 151-600 Plateletcrit 0.09% range 0.17-0.86 Chem 10 - UA - BP - avg 120 mmHg ECG - NSF per DR 9/11/25: CBC: RBC 11.55 H (11.53)--r/o dehydration HCT 52.5 H (51)--r/o dehydration HBG 17.4 H (16.7)--r/o dehydration Neutro 2.105 L (2.62)--r/o use vs nonproduction vs destruction CHEMISTRY: SDMA 9 NSF (<14) Cr 2.1 (IRIS begins at 1.6)--r/o prerenal vs renal Alb 4.0 H (3.9)--r/o dehydration Lytes: NSF T4 = 2.8 normal Feline Triple SNAP = (-)x3 proBNP = 64 NSF Urinalysis--sample collected via: cystocentesis USG 1.042 pH 7.5 prot 1+ 1+ struvite

Abnormal PE/Chem/CBC/UA Results: 3-4/6HM (NEW) with clear lung sounds bilaterally. No resp concerns at home. BCS = 6/9. ABD = SNP. Rest of PE = NSF.CXR/AXR to IDX on 10/27/25 CONCLUSIONS: Equivocal cardiomegaly. Given the reported murmur, underlying cardiomyopathy warrants consideration. There is no evidence of congestive heart failure. The heterogenous gastrointestinal contents are most consistent with postprandial changes. RECOMMENDATIONS: ECG evaluation, blood pressure measurement, and a cardiologist consultation/echocardiography is recommended. If referral to a local cardiologist is not feasible, consider a consultation with IDEXX Telemedicine's Cardiology service for specific treatment and case management recommendations

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	--	NM	0.63	1.4	0.54	50	90
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	1.6	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	--	1.3	--	--	2.0	NM	
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

EPSS: 0.1

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. Mild **left ventricular** septal hypertrophy was noted. No systolic anterior motion (SAM) noted at the time of the sonogram, however, **mitral** insufficiency was moderate, prominent and eccentric. No volume overload was noted. 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 and angles of the myocardium. Some turbulence of



PATIENT	the left ventricular outflow tract. The right atrium and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. Tricuspid valvular assessment demonstrated adequate linear morphology and kinetics. The right ventricle was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. Pulmonic 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 or extra cardiac pathology in the visible planes. The cranial mediastinum and pericardial regions were free of masses in the visible window.
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BREED	Urinary System
DSH	The urinary bladder , trigone, and pelvic urethra (to a depth of 1.0 cm) presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized, and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.
SEX	
Spayed Female	The iliac trifurcation was unremarkable.
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WEIGHT	
10.75	The left kidney revealed normal size and contour with slight pinpoint mineralizations noted. The left kidney measured 3.5 cm in length.
INTERPRETED BY	Adrenal Glands
Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS	Both adrenal glands were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.30 cm width. The right adrenal gland measured 0.40 cm width.
IMAGING PERFORMED BY	Spleen
Dr. Jocelyn Hollway	The spleen presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted. The spleen measured 0.91 cm.
HOSPITAL NAME	Liver
Seven Valleys Veterinary Hospital	The liver images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.
REFERRING VET	Gastrointestinal
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Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

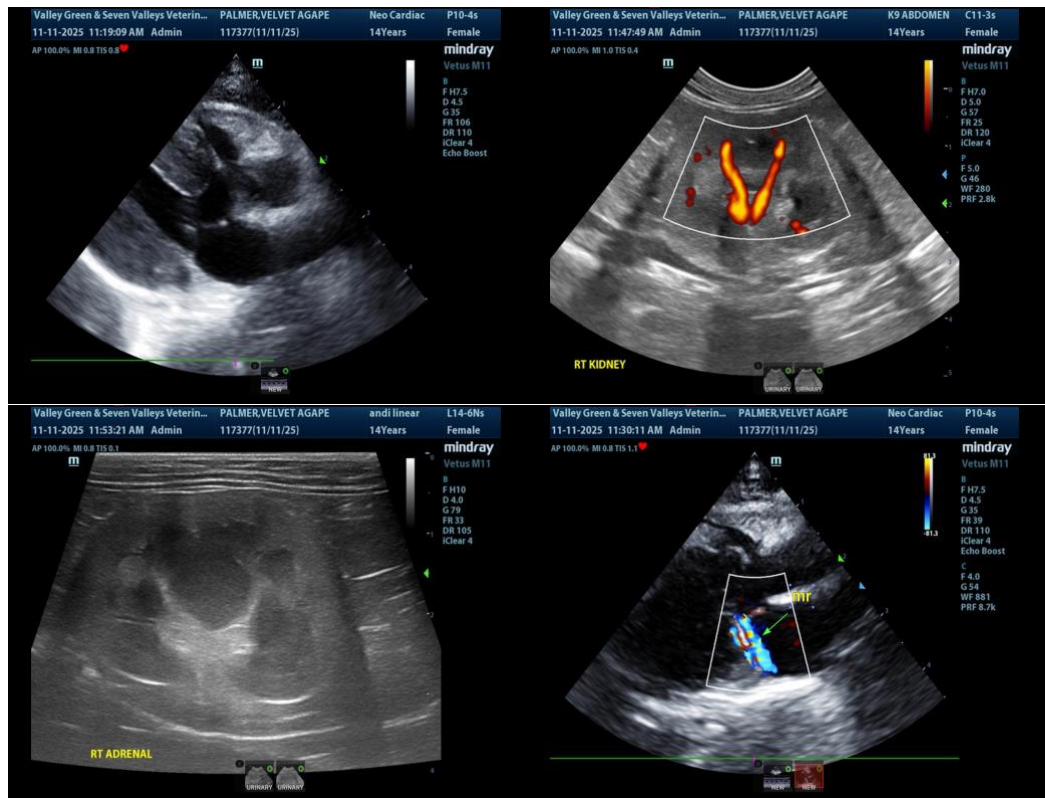
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

ULTRASONOGRAPHIC FINDINGS

- Slight mineralization in the left kidney.
- Structurally normal abdomen otherwise.
- Hypertrophic cardiomyopathy phenotype- compensated at this time.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of visceral disease in the abdomen. No therapy is recommended at this time. Recheck echo is recommended in 6 months.





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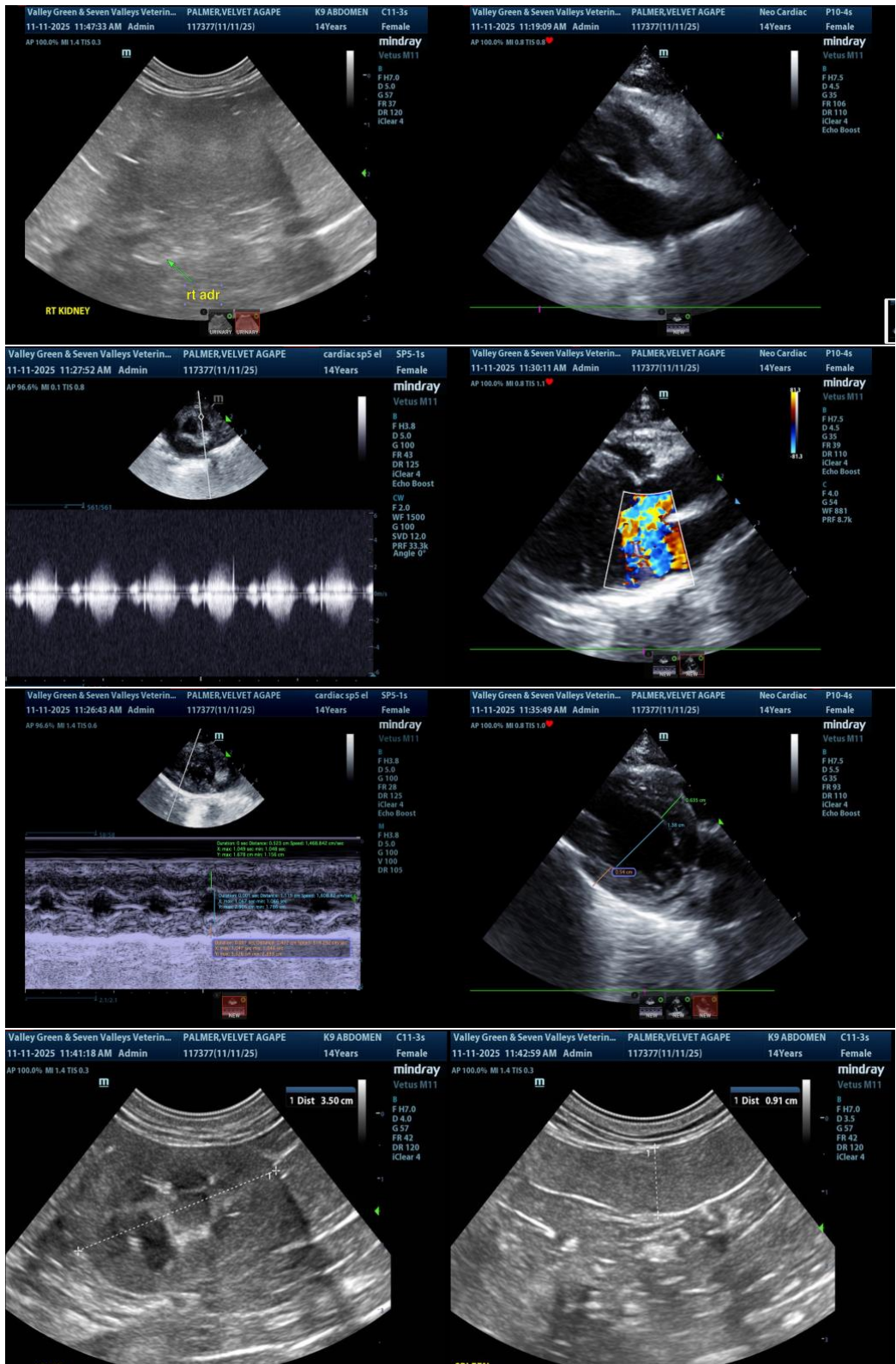
Dr. Deihl

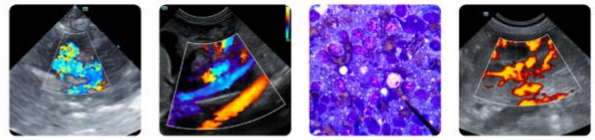
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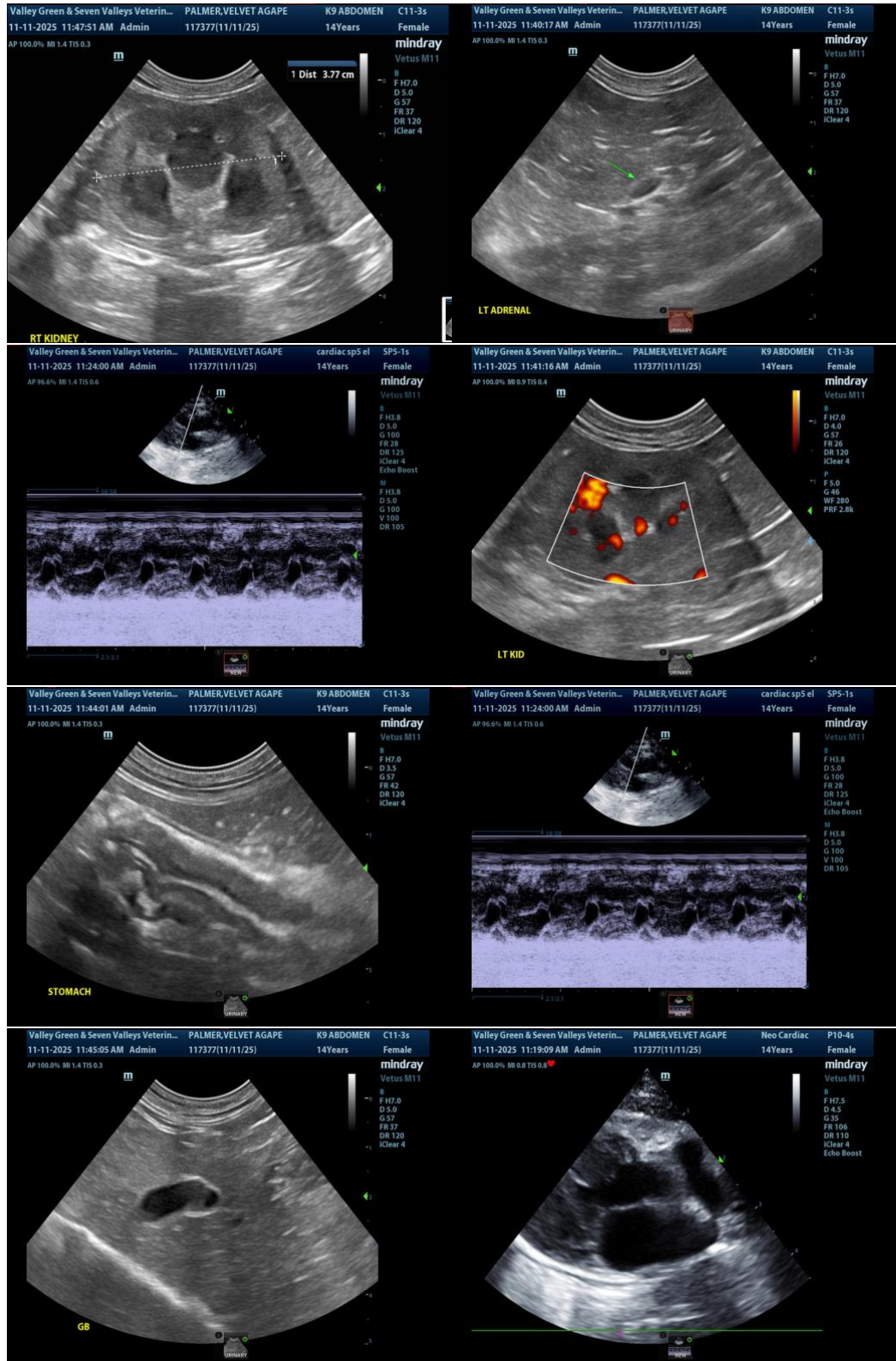
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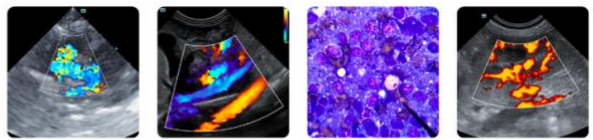
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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