

PATIENT

Gretchin Maduri

SPECIES

Canine

BREED

Dachshund

SEX

Spayed female

AGE

11 years

WEIGHT

8.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Beatties Stoney Creek

REFERRING VET

Dr. Salib

INVOICE

68941

DATE

11/24/25

PRESENTING CLINICAL SIGNS

History: CBC: revealed a M1 leukocytosis characterized by a M1 neutrophilia w suspect bands, a M1 lymphopenia, a M1 monocytosis and a M3 eosinopenia CHEMISTRY: revealed M1 azotemia, a M1ly low creatinine and urea, M3ly elevated liver enzymes (ALT, ALKP, GGT), a M1ly elevated Cholesterol in addition to being M1ly hypothyroid. Subtle straightening of the caudal cardiac waist on the lateral views may be incidental. Fx ribs. Small intestinal segments are somewhat distended with fluid and gas. This could indicate a functional ileus. Gastroenteritis/pancreatitis for example. faint mineral opacity superimposed with the ventral liver likely involves the gallbladder. Cholelithiasis within the gallbladder lumen is suspected. High-grade heart murmur (Grade 5-6/6). Current Medications Butorphanol 10mg/ml (0.4mg/kg)
Abnormal PE/Chem/CBC/UA Results: See attached rads and BW Primary Question to Be Answered in This Exam DDX: Cushing, CHF, kidney, neoplasia, open

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. Multiple calculi were noted in the bladder, largest of which measured 0.83 cm. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Mild mineralization was noted in the kidneys. The left kidney measured 5.35 cm. The right kidney measured 5.35 cm.

Adrenal Glands

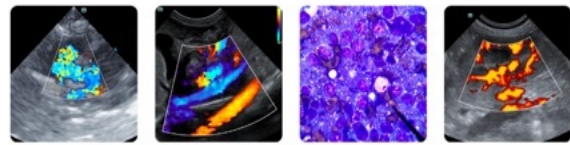
The right **adrenal gland** was mildly enlarged and slightly irregular with hypoechoic 2.5 x 1.5 cm at the cranial pole and 1.11 cm at the caudal pole. The left adrenal gland was slightly enlarged with uniform swelling measuring 1.04 cm at the caudal pole and 0.68 cm at the cranial pole and 2.55 cm in length.

Spleen

The **spleen** was normal size and mildly irregular in contour with multifocal hyperechoic areas of mineralization. This is a benign change; however, can be related to Cushing's disease or other endocrinopathies.

Liver

The **liver** revealed coarse architecture with mildly increased portal markings. The gallbladder was peripherally inflamed with over distension and striating bile. This is consistent with inflamed mucocele.



PATIENT

Gretchin Maduri

SPECIES

Canine

BREED

Dachshund

SEX

Spayed female

AGE

11 years

WEIGHT

8.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP, Cert. IVUSS,
 CEO of SonoPath.com

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Beatties Stoney Creek

REFERRING VET

Dr. Salib

INVOICE

68941

DATE

11/24/25

Gastrointestinal

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.

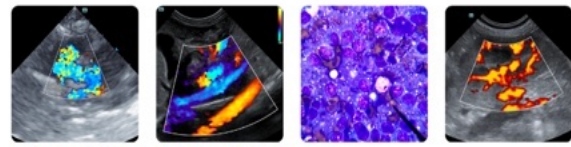
Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The **echocardiogram** presented a prominent **right heart** with mild **right ventricular** hypertrophy, **tricuspid** regurgitation was evident with relatively contained **right atrial** size. 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** was insufficient, yet no significant **left atrial** dilation was evident. **Aortic** insufficiency was noted. 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.

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO	LA/AO (Heart Base)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT		1.65	NM		30		NM
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	BELOW	BELOW	BELOW	BELOW
PATIENT		0.7	0.6	8.3 kg	2.03	2.1	



PATIENT

Gretchin Maduri

SPECIES

Canine

BREED

Dachshund

SEX

Spayed female

AGE

11 years

WEIGHT

8.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP, Cert. IVUSS,
 CEO of SonoPath.com

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Beatties Stoney Creek

REFERRING VET

Dr. Salib

INVOICE

68941

DATE

11/24/25

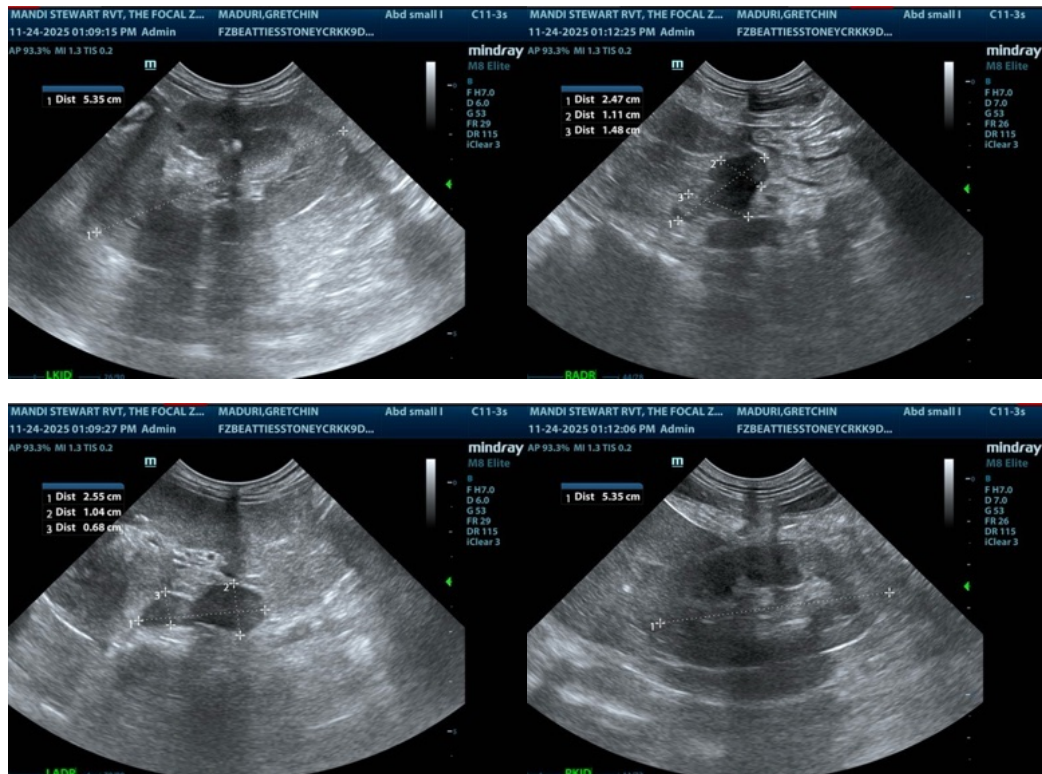
ULTRASONOGRAPHIC FINDINGS

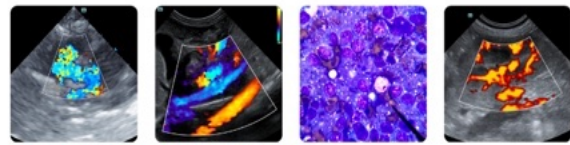
- Bilateral adrenal enlargement, consistent with Cushing's. Early bile peritonitis pattern.
- Inflamed gallbladder mucocele.
- Splenic mineralization, secondary to endocrinopathy.
- Suspect thromboembolic events or primary respiratory disease with secondary cor pulmonale.
- Cor pulmonale with mitral insufficiency. No evidence of primary cardiac disease. Stable stage B1 valvular disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Primary respiratory disease is likely causing slight right atrial enlargement. Mitral and tricuspid insufficiency consistent with Stage B1 valvular disease. There is no primary cardiac component noted in this patient. However, B lines were noted in the peripheral lung fields/comet tails. This is indicative of alveolar disease. Thromboembolic event is a strong potential given the patient's abdominal pathology.

Exploratory cholecystectomy needed once the thoracic presentation is stabilized with eventual management of Cushing's/PDH.





PATIENT

Gretchin Maduri

SPECIES

Canine

BREED

Dachshund

SEX

Spayed female

AGE

11 years

WEIGHT

8.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP, Cert. IVUSS,
 CEO of SonoPath.com

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Beatties Stoney Creek

REFERRING VET

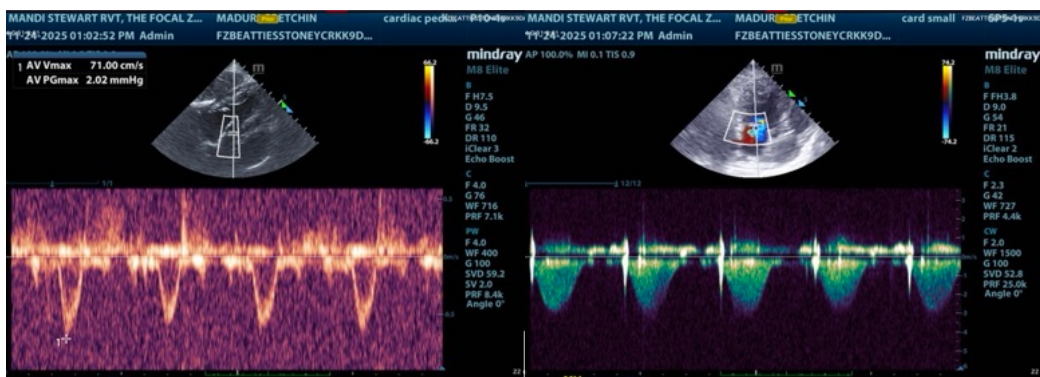
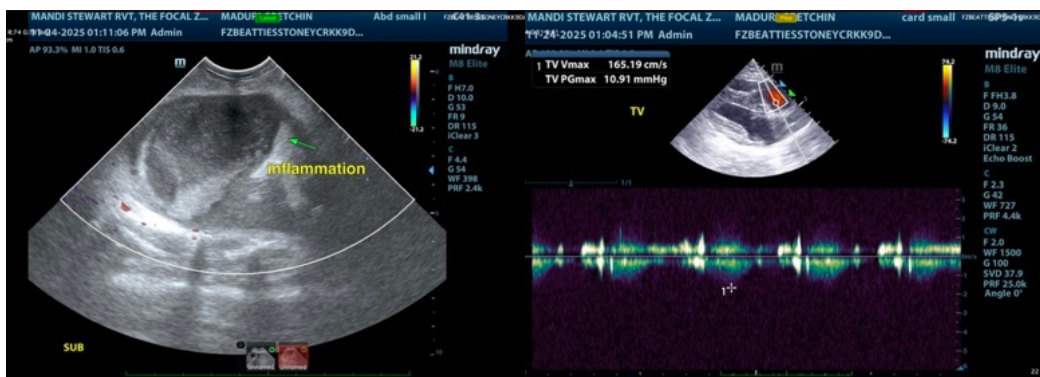
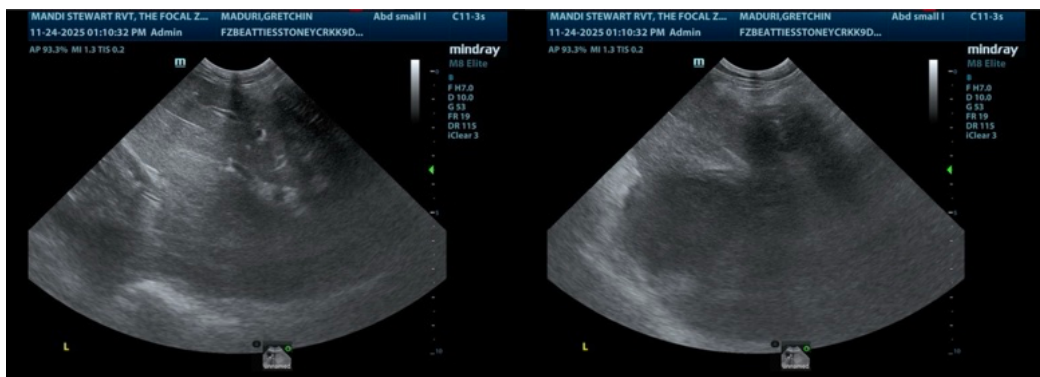
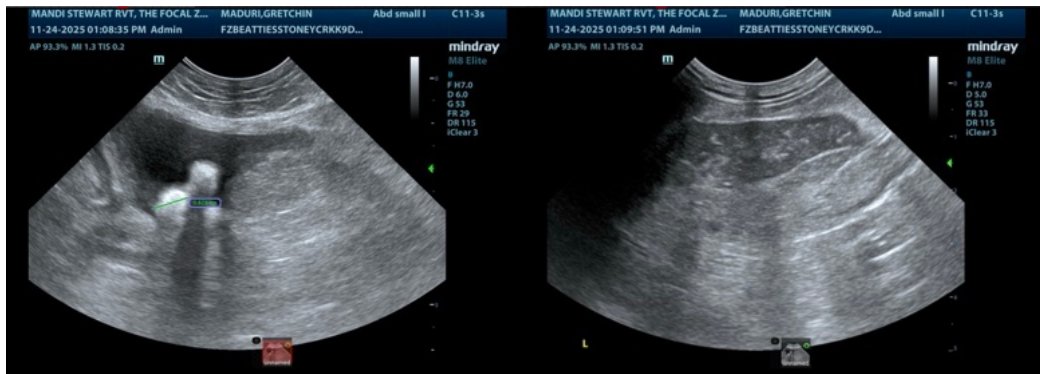
Dr. Salib

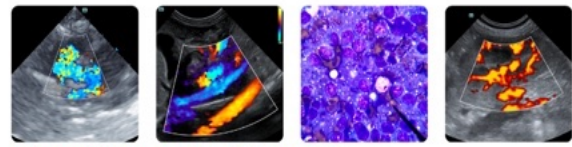
INVOICE

68941

DATE

11/24/25





PATIENT

Gretchin Maduri

SPECIES

Canine

BREED

Dachshund

SEX

Spayed female

AGE

11 years

WEIGHT

8.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP, Cert. IVUSS,
 CEO of SonoPath.com

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Beatties Stoney Creek

REFERRING VET

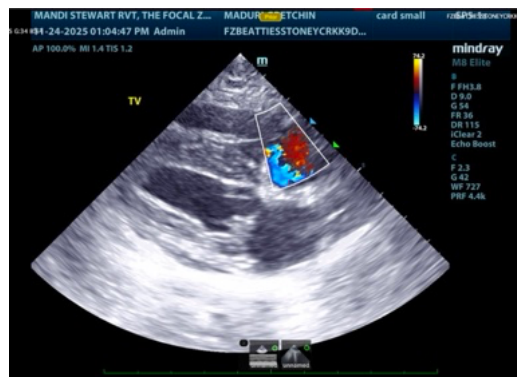
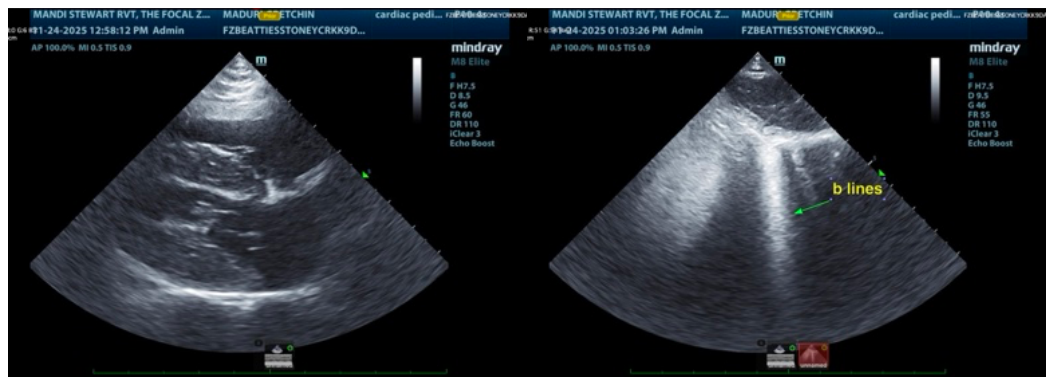
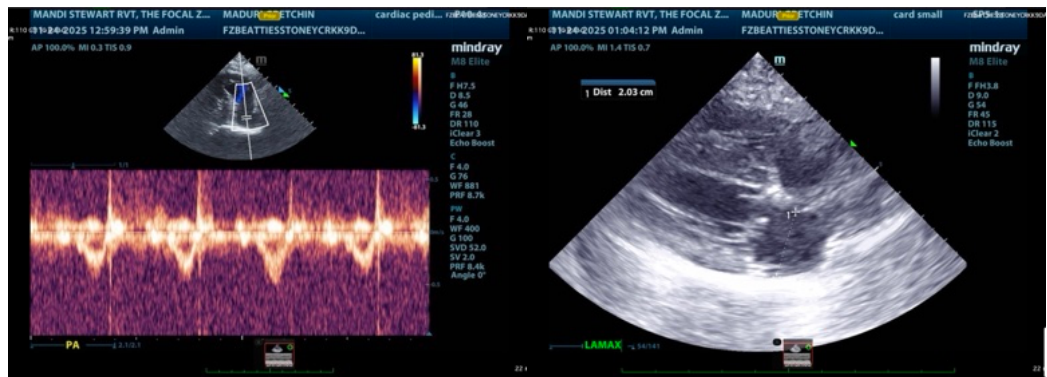
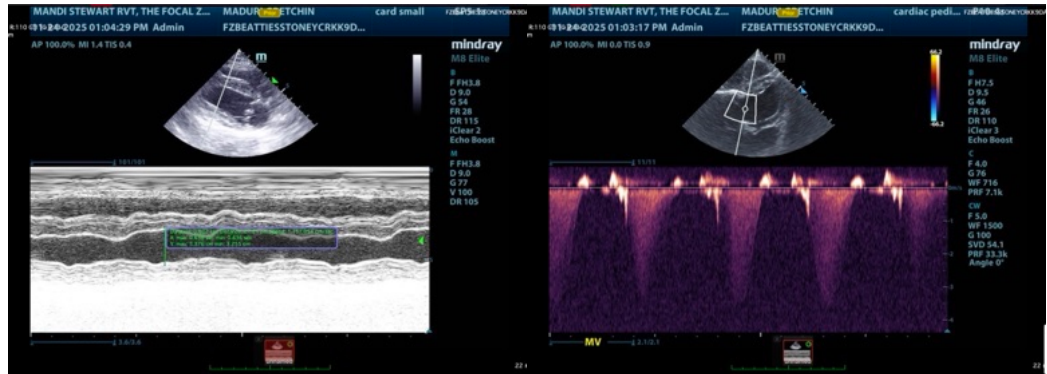
Dr. Salib

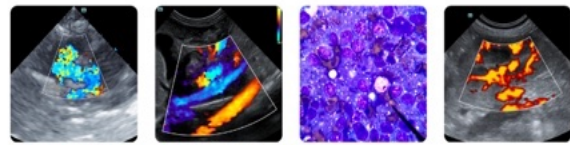
INVOICE

68941

DATE

11/24/25





PATIENT

Gretchin Maduri

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.

SPECIES

Canine

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.

BREED

Dachshund

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com

SEX

Spayed female

AGE

11 years

WEIGHT

8.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Beatties Stoney Creek

REFERRING VET

Dr. Salib

INVOICE

68941

DATE

11/24/25