



**PATIENT**

Dubbie Pagonis

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

23.2 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Midland Park VH

**REFERRING VET**

Dr. John Shokoff

**INVOICE**

36043

**DATE**

3/10/22

**PRESENTING CLINICAL SIGNS**

Presented on 3/9/22 with acute first time seizures, 3 in 1 hour. Responded to Diazepam IV - no further seizures. Definitive cause not yet determined. Echo recommended due to elevated BP (182/132 MAP 148). tachycardia @ 240 bpm and suspicious opacity near heart base on rads. (R/O mass vs. artifact). Abdominal ultrasound recommended due to elevated lipase and elevated GGT. Meds: Diazepam injection given on 3/9/22, Phenobarbital.

Abnormal PE/Chem/CBC/UA Results: GGT 7.0, lipase 1879, K+ 3.0, glucose 187.

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
<b>NORMAL PARAMETER</b>	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
<b>PATIENT</b>		56	0.48	1.44	0.48	30	61
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
<b>NORMAL PARAMETER</b>	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
<b>PATIENT</b>	1.3	1.1		1.0	0.68	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							

**Cardiac Presentation**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented normal linear structure and kinetics. The **left ventricle** presented normal thicknesses with linear contour and was not dilated nor restricted. 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. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. 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.

**Urinary System**

The **urinary bladder** revealed a trace amount of sand, not clinically significant nor obstructive.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present.



**PATIENT**

Dubbie Pagonis

The capsules were acceptably uniform without significant irregularities. The right kidney measured 4.52 cm. The left kidney measured 4.0 cm.

**Adrenal Glands**

**SPECIES**

Feline

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 right adrenal gland measured 0.48 cm. The left adrenal gland measured 0.44 cm.

**BREED**

DSH

**Spleen**

**SEX**

Neutered Male

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The spleen measured 0.9 cm in width. 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.

**Liver**

**AGE**

10 Years

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.

**WEIGHT**

23.2 Pounds

**Gastrointestinal**

**INTERPRETED BY**

Eric Lindquist, DMV

The **stomach** revealed progressively shadowing material, consistent with likely hairball accumulation. The small intestine and colon were unremarkable.

DABVP, Cert. IVUSS

**Pancreas**

**IMAGING PERFORMED BY**

Kelly Vazquez

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.

**Free Abdomen**

**HOSPITAL NAME**

Midland Park VH

A large amount of abdominal fat was noted in this patient.

**ULTRASONOGRAPHIC FINDINGS**

- Normal echocardiogram
- Normal abdomen

**REFERRING VET**

Dr. John Shokoff

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of abdominal or cardiac disease to be responsible for the seizure activity. Brain CT with contrast would be recommended. Medical management should prove effective. However, further diagnostics regarding the cause of seizures would be indicated.

**INVOICE**

36043

**DATE**

3/10/22



**PATIENT**

Dubbie Pagonis

**SonoPath CT Services** are offered at the [Blirstown Animal Hospital](#). Blirstown animal hospital is just a 30-minute drive west on route 80 from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at:

**SPECIES**

Feline

<https://sonopath.com/resources/sonopaths-teleconsultation-services-and-sdep-certification/sonopath-ct-services>

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

23.2 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Midland Park VH

**REFERRING VET**

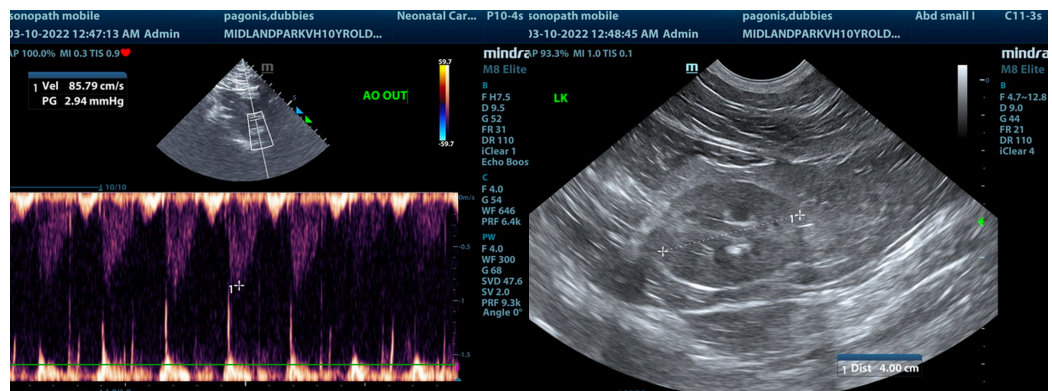
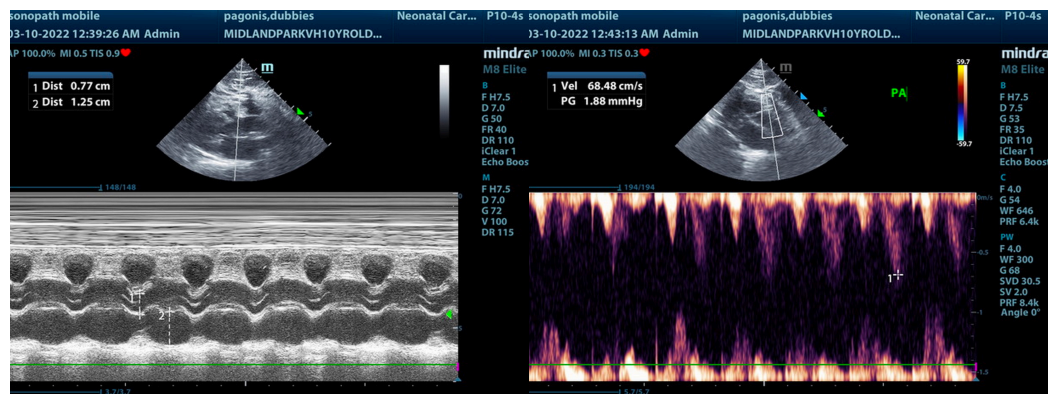
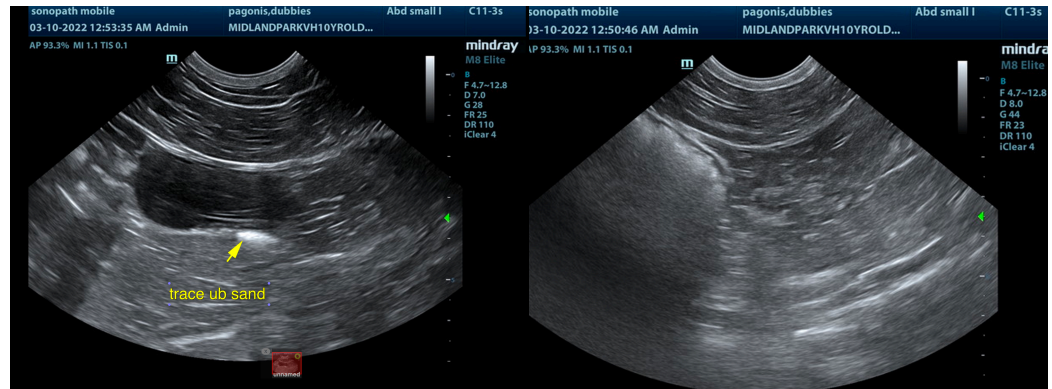
Dr. John Shokoff

**INVOICE**

36043

**DATE**

3/10/22





**PATIENT**

Dubie Pagonis

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

23.2 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Midland Park VH

**REFERRING VET**

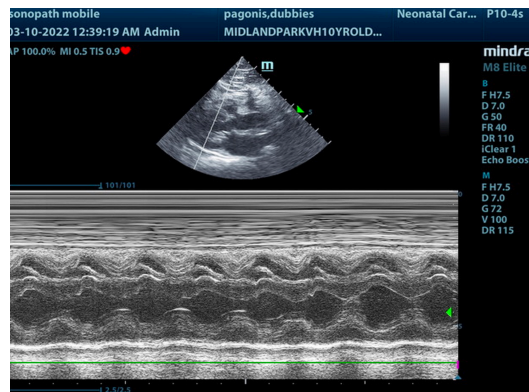
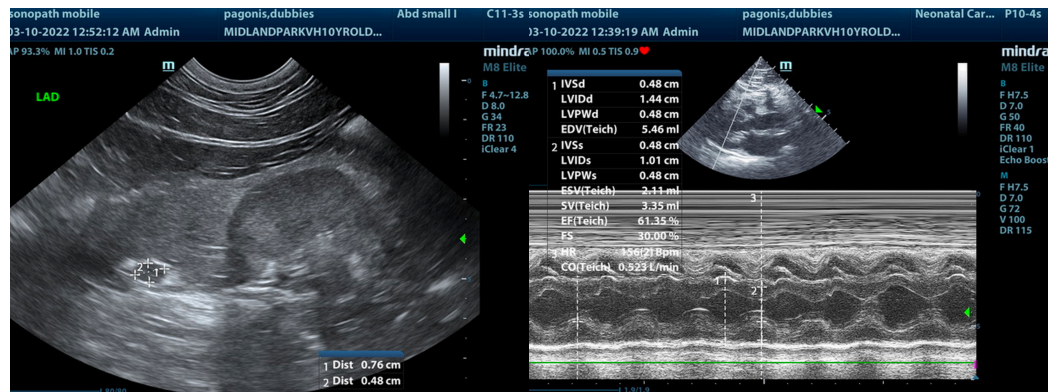
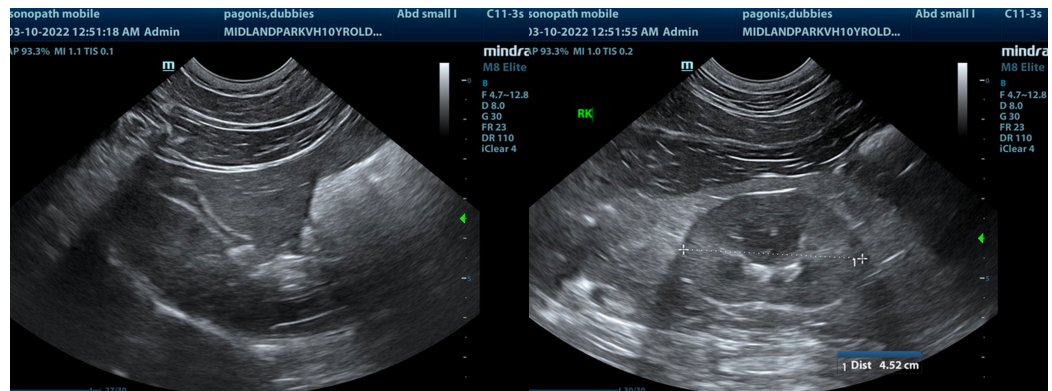
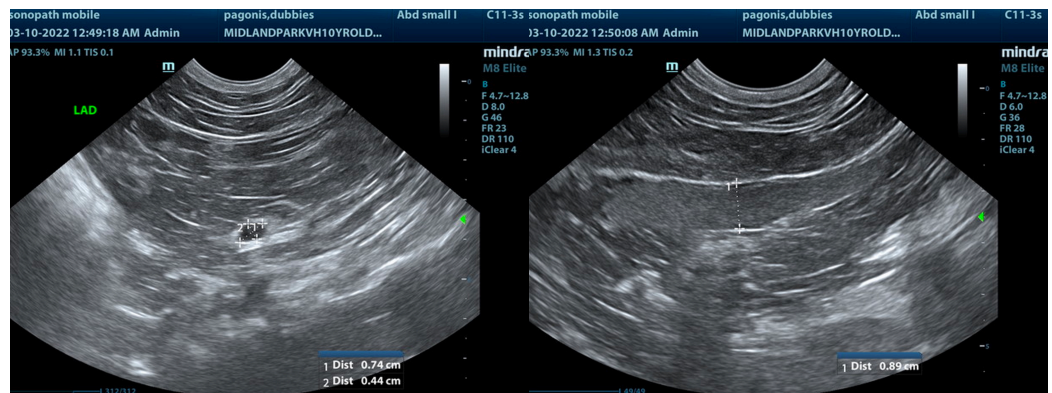
Dr. John Shokoff

**INVOICE**

36043

**DATE**

3/10/22





**PATIENT**

Dubbie Pagonis

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**

Feline

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, Cert. IVUSS, CEO of SonoPath.com

[info@SonoPath.com](mailto:info@SonoPath.com)

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

23.2 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Midland Park VH

**REFERRING VET**

Dr. John Shokoff

**INVOICE**

36043

**DATE**

3/10/22