

PATIENT PRESENTING CLINICAL SIGNS

Bear Nashnik

History: History of hyperthyroidism that has been treated with radioactive iodine. On synthroid due to over suppression of hyperthyroidism. Presumptive diagnosis of IBD based on previous ultrasound findings (no biopsy performed). Palpable thyroid nodules, on re-check noted arrhythmia on cardiac auscultation. Very mild weight loss, sleeps a lot per owner.

SPECIES

Feline

Abnormal PE/Chem/CBC/UA Results: BCS= 3/9 Irregular irregular arrhythmia. No murmur. palpable thyroid nodules, stable on ultrasound measurements. T4= 30.6nmol/l (10-60) elevated ProBNP 157 (0-100) Send out ECG and thoracic radiographs were unremarkable per cardiologist. see below: HEART RATE AND RHYTHM: Heart Rate: 160 bpm Rhythm: Sinus with a possible VPC (on page 6) ECG FINDINGS AND ASSESSMENT: There is a possible VPC on page 6 (although I think its more likely a movement artifact). All other ECG measurements are within normal limits in this study. THORACIC RADIOGRAPHS: Three view thoracic radiographs are provided for review THORACIC RADIOGRAPHIC FINDINGS: ‡Heart: The cardiac silhouette is normal in size (VHS = 7.3v, (reference range 6.9 - 8.1v). ‡Pulmonary vasculature: The pulmonary vasculature is normal. ‡Upper airway: The trachea is patent and in a normal position. ‡Lungs and pleura: The pulmonary parenchyma is unremarkable for the patient's signalment. There is no evidence of pleural effusion noted. ‡Mediastinum: The mediastinum is normal. ‡Cranial abdomen: Abdominal detail is normal. THORACIC RADIOGRAPHIC CONCLUSIONS: Normal cardiac silhouette and no evidence of congestive heart failure. DIAGNOSTIC RECOMMENDATIONS: Consider longer duration ECG monitoring if indicated. Given the elevated BNP an echocardiogram is advisable if possible. THERAPEUTIC RECOMMENDATIONS: Given the absence of significant left atrial dilation, no cardiac therapy is indicated. I saw the blood pressure is normal and does not require treatment.

BREED

Domestic Longhair

SEX

Neutered male

AGE

17 years

WEIGHT

4.73 lbs

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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. Occasional tachyarrhythmia was noted in this patient, yet there was no evidence of structural or functional disease.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kaitlyn Varga

HOSPITAL NAME

Shuswap VC

REFERRING VET

Dr. Varga

INVOICE

45890

DATE

7/4/23



PATIENT	FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LWVd (cm)	FS (%)	EF (%)
Bear Nashnik		-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
SPECIES	NORMAL PARAMETER							
Feline								
BREED	PATIENT		NM	0.56	1.41	0.53	54	88
Domestic Longhair	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)
	NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7		<1.6	<1.3	40-60
SEX	PATIENT	1.3	1.2	1.1			1.1	NM
Neutered male	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							
AGE								
17 years								

ULTRASONOGRAPHIC FINDINGS

Normal echocardiogram with occasional tachyarrhythmia.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Long lead II EKG is indicated. However, this is not likely a functional issue at this time. Blood pressure and thyroid assessment is warranted if not already performed.

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PATIENT

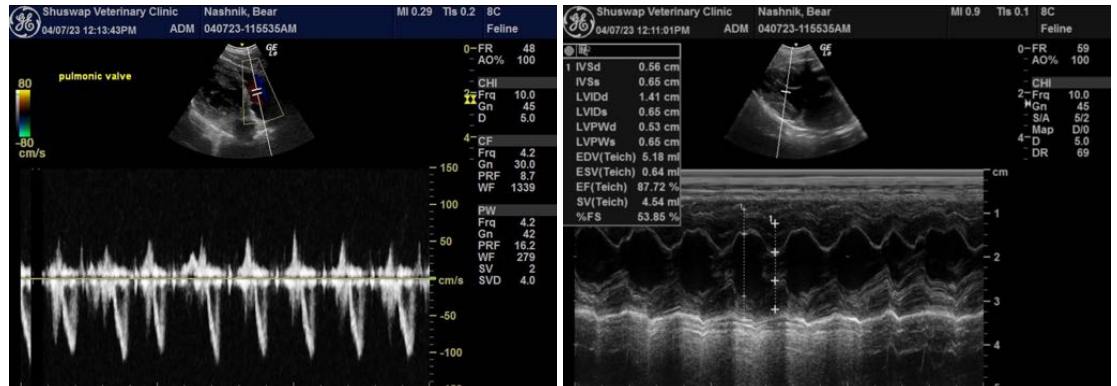
Bear Nashnik

SPECIES

Feline

BREED

Domestic Longhair



SEX

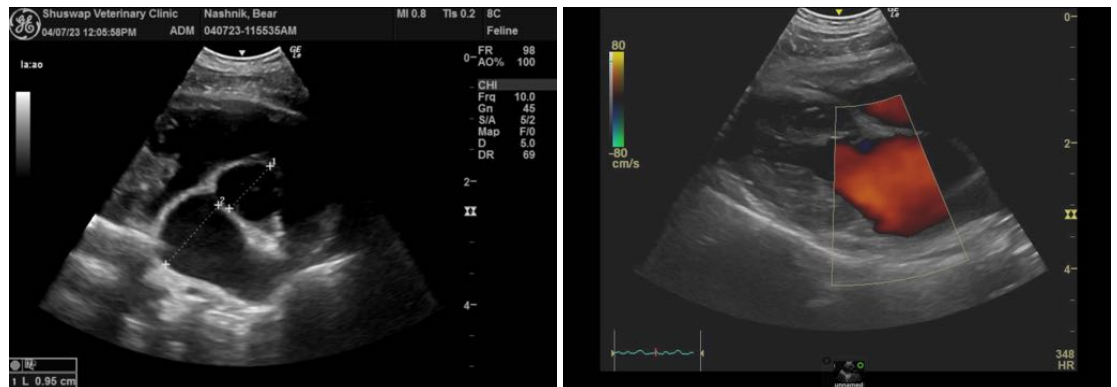
Neutered male

AGE

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WEIGHT

4.73 lbs

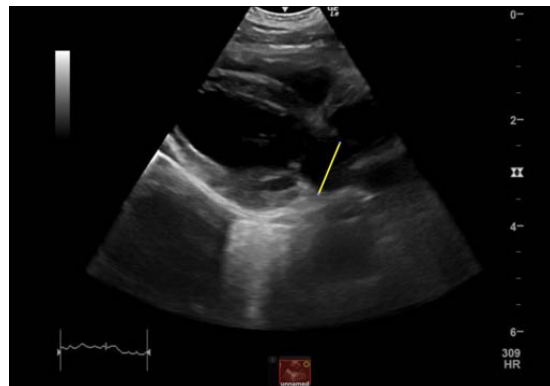


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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com