


PATIENT PRESENTING CLINICAL SIGNS

Teddy Bielenik

–September 18, 2021 - Heart/Cardiovascular: Muffled heart and lungs sounds. Musculoskeletal: stiff hindlegs; hard growth on the RF dorsal paw.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: rad findings: Findings - "The region of ill-defined increased opacity associated with the cranioventral thorax is suspected to reflect mediastinal fatty deposition and superimposition of one forelimb. However, a small cranial mediastinal mass is not definitively excluded." Recommendations - "Repeated biopsy of the metacarpal mass may be considered.

BREED

Golden Retriever

Sonographic evaluation of the cranioventral mediastinum may also be considered for exclusion of a mass at this level."

ULTRASONOGRAPHIC EXAMINATION OF THE HEART
SEX

MN

AGE

12 years

WEIGHT

52.1 kg

INTERPRETED BY

 R. McKenzie Daniel,
 DVM, DABVP

IMAGING PERFORMED BY

Kelly Reshny, RVT

HOSPITAL NAME

 Beattie Pet Hospital
 Burlington

REFERRING VET

Dr. Aziz

INVOICE

12331

DATE

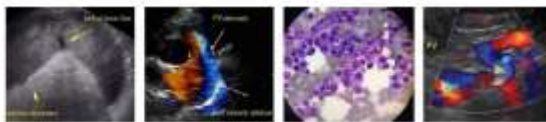
9/28/21

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.5	1.4	36.6	69.8	0.60
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	90	2.0	1.6		4.0	4.1	

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented 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 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. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or



PATIENT

Teddy Bielenik

free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window.

SPECIES

Canine

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Normal echocardiogram for age

BREED

Golden Retriever

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac structure and function for age without overt evidence of systolic dysfunction, valvular insufficiencies, or other cardiac structural or functional pathology. No evidence of a pericardial or cranial mediastinal mass was overtly noted in this study. No indication for cardiac medications. If clinically indicated, radiographic monitoring in the area of the cranial mediastinum for evidence of persistent or progressive opacity with potential recheck sonogram if needed may be considered.

SEX

MN

AGE

12 years

WEIGHT

52.1 kg

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP

IMAGING PERFORMED BY

Kelly Reshny, RVT

HOSPITAL NAME

Beattie Pet Hospital
Burlington

REFERRING VET

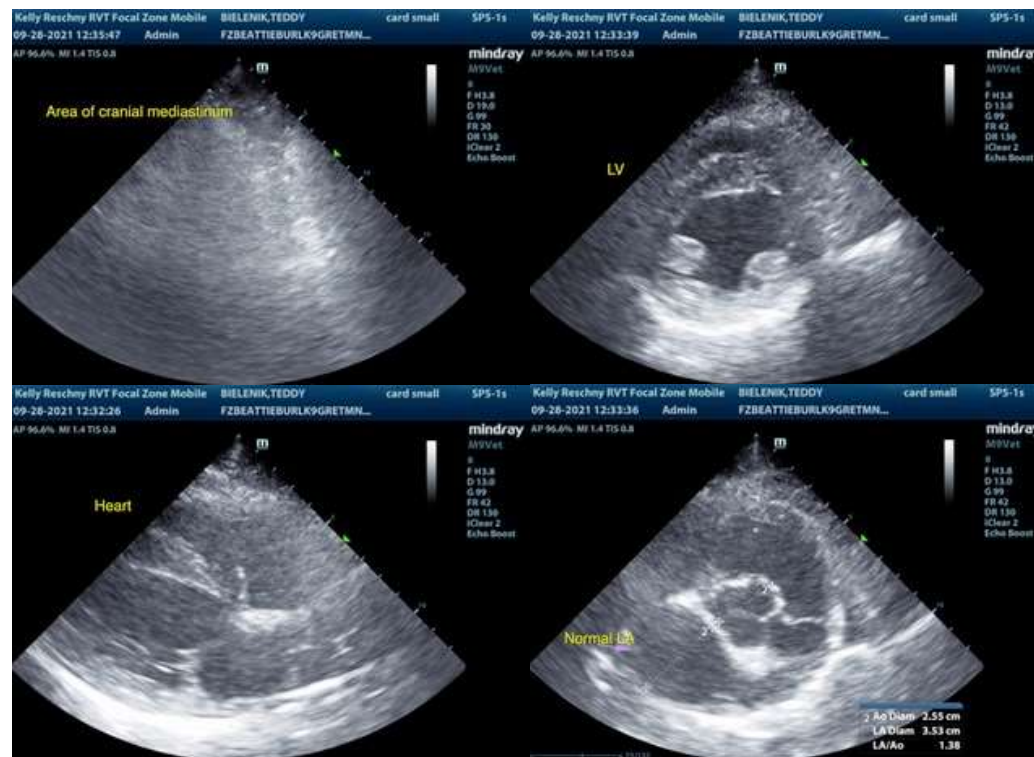
Dr. Aziz

INVOICE

12331

DATE

9/28/21



The information and recommendations provided are based on the images presented by the referring veterinarian. 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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com