


PATIENT PRESENTING CLINICAL SIGNS

Benny Grando History: Increased respiratory effort - suspect enlarged heart. No current meds.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART
SPECIES

Canine

BREED

Mixed

SEX

MN

AGE

4 yr

WEIGHT

50 lb

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	<1.3	28-40	40-100	<0.6
PATIENT			NM	1.27	29	59	0.38
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				
PATIENT	123	1.2	1.1		3.5	3.5	

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 mildly subnormal yet likely adequate as evidence by the FS measurement and subjective evaluation 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 free pleura fluid was noted. The cranial mediastinum and pericardial and extra-cardiac regions were free of masses in the visible window.

INTERPRETED BY

 R. McKenzie Daniel,
 DVM, DABVP
 (Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

 Westwood Regional
 Veterinary Hospital

REFERRING VET

Dr. Giammanco

ULTRASONOGRAPHIC FINDINGS

- Normal echocardiogram with mild LV hypocontractility

INVOICE

10639ag

DATE

05/16/2022

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No overt evidence of structural or functional cardiomyopathy including no evidence of valvular insufficiencies, stenotic disease or left or right heart chamber enlargement. The mild decreased LV systolic function is nonspecific with considerations including normal patient variant or athletic state,



PATIENT

Benny Grando

SPECIES

Canine

BREED

Mixed

SEX

MN

AGE

4 yr

WEIGHT

50 lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Westwood Regional
Veterinary Hospital

REFERRING VET

Dr. Giammanco

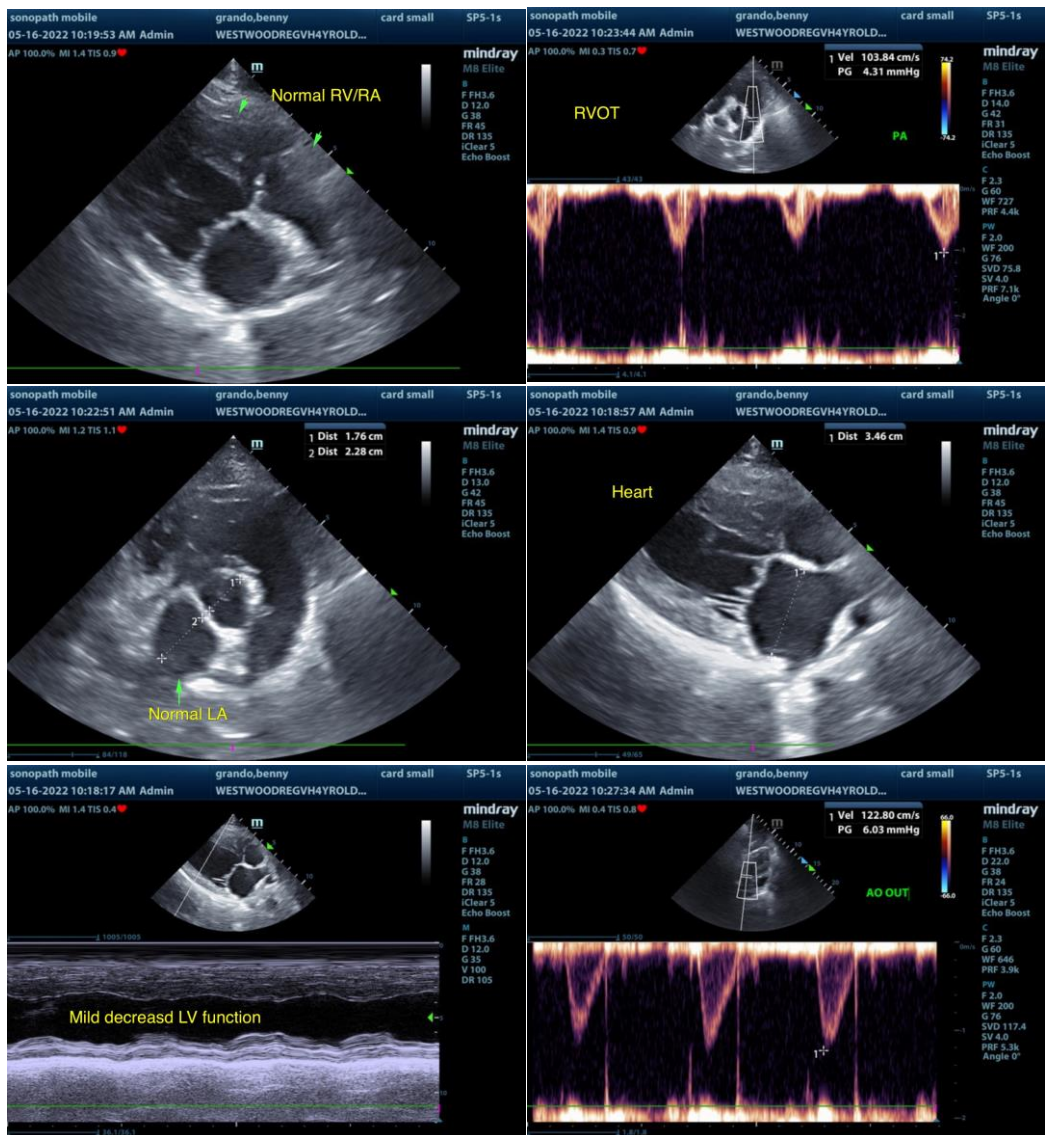
INVOICE

10639ag

DATE

05/16/2022

although potentially systemic disease, hypothyroidism etc. can present in this fashion. DCM criteria is not present. The reported increased respiration rate in this patient is not overtly consistent with cardiogenic origin. No indication for cardiac medications. Three view chest radiographs suggested if not done. No reported evidence of grain free or boutique diet as the contributing factor to the cardiac presentation. Recheck echocardiogram recommended in 6 months, sooner if clinical signs suggestive of heart disease are noted.





PATIENT

Benny Grando

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

Mixed

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com

SEX

MN

AGE

4 yr

WEIGHT

50 lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Westwood Regional
Veterinary Hospital

REFERRING VET

Dr. Giammanco

INVOICE

10639ag

DATE

05/16/2022