



PATIENT PRESENTING CLINICAL SIGNS

Lucie Blum History: Echo - worsened heart murmur grade III-IV. Has dental scheduled for today. Current meds: Denamarin
 Abnormal PE/Chem/CBC/UA Results: elevated liver values- has been worked up by internist

SPECIES

Canine

BREED

Miniature Poodle

SEX

Spayed Female

AGE

13 years

WEIGHT

13 lbs

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable insufficiency. 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 or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. 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. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

HoHoKus Vet

REFERRING VET

Dr. Scott

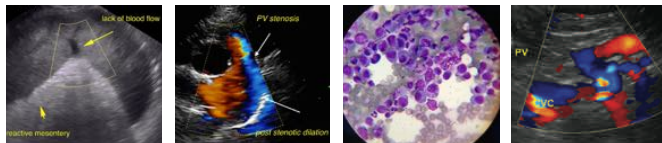
INVOICE

93164

DATE

11/17/21

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	5.5		1.3	1.4	44	77	0.18
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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	120	1.14		13 lbs	2.24 max	3.11	



PATIENT **ULTRASONOGRAPHIC FINDINGS**

Lucie Blum Mitral valve insufficiency, stage B1 valvular disease.

SPECIES **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Canine
 There was no evidence of volume overload. The patient is at minor anesthetic risk. Torbutrol premed, Propofol induction, and Isoflurane maintenance is recommended. Recheck echocardiogram is recommended in 6 months. Assessment of BUN, creatinine, USG, chest radiographs and blood pressure as well as clinical exam is ideal in 7-10 days. Basal respiratory rate should be <20/min.

BREED

Miniature Poodle

SEX

Spayed Female

AGE

13 years

WEIGHT

13 lbs

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

HoHoKus Vet

REFERRING VET

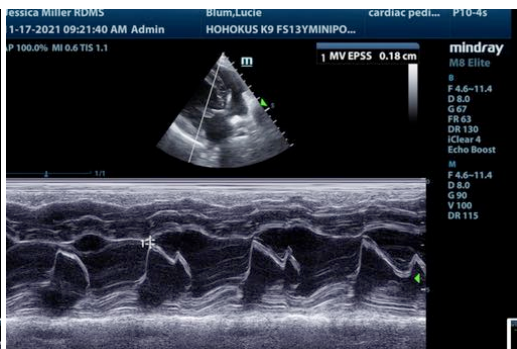
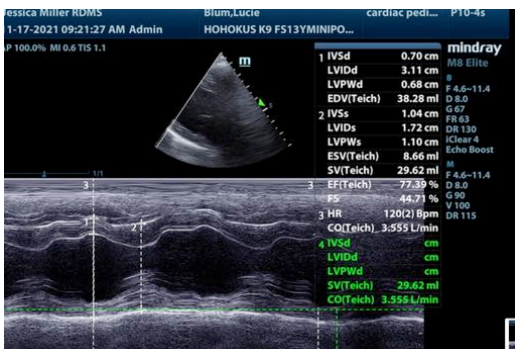
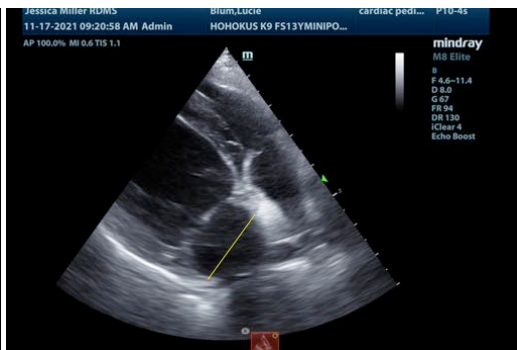
Dr. Scott

INVOICE

93164

DATE

11/17/21





PATIENT

Lucie Blum

SPECIES

Canine

BREED

Miniature Poodle

SEX

Spayed Female

AGE

13 years

WEIGHT

13 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

HoHoKus Vet

REFERRING VET

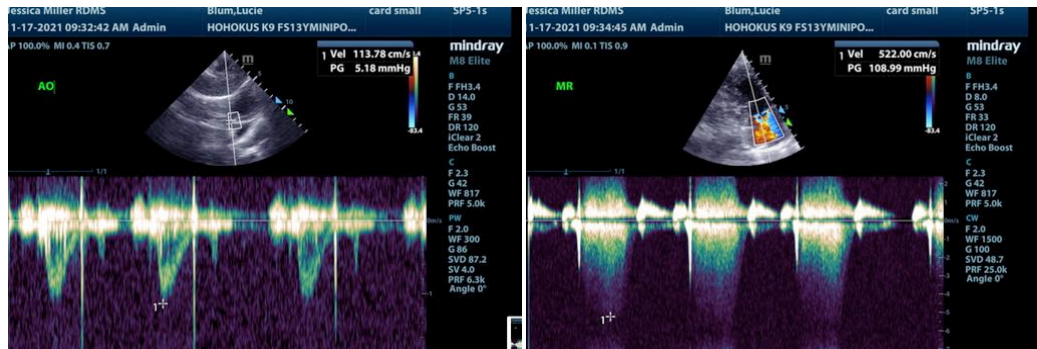
Dr. Scott

INVOICE

93164

DATE

11/17/21



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.

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