



**PATIENT**

Bonbon al Ashar

**SPECIES**

Feline

**BREED**

Scottish Fold

**SEX**

Female

**AGE**

14 months

**WEIGHT**

2.34 lbs

**PRESENTING CLINICAL SIGNS**

History: Referred to us by another vet as they were not comfortable doing the spay, as cat was dyspneic and had pectus excavatum with position of heart to left side, Loud sounds on left side but muffled on right side, please see attached radiographs also, it was not possible to do scanning from right side as no images were coming, i could only do from left side

**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.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Khan

**HOSPITAL NAME**

The Veterinary Surgery

**REFERRING VET**

Dr. Valentina

**INVOICE**

42810

**DATE**

11/30/22

FELINE CARDIAC PARAMETERS	BODY WEIGHT	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	2.34 lbs	200	0.3	1.4	0.3	45	
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	
PATIENT			1.0				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							



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**ULTRASONOGRAPHIC FINDINGS**

Normal heart, yet the cardiac position appears to be altered.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The cardiac position appeared to be altered, yet no volume overload was present. The pectus excavatum presentation does not appear to be affecting the heart. No overt contraindication to anesthetic procedure from the cardiac standpoint; however, the patient may be limited from the pulmonary capacity given the pectus excavatum.

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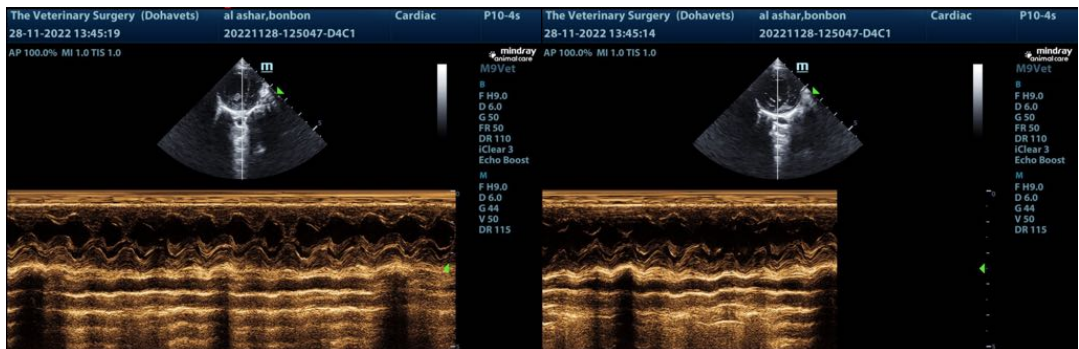
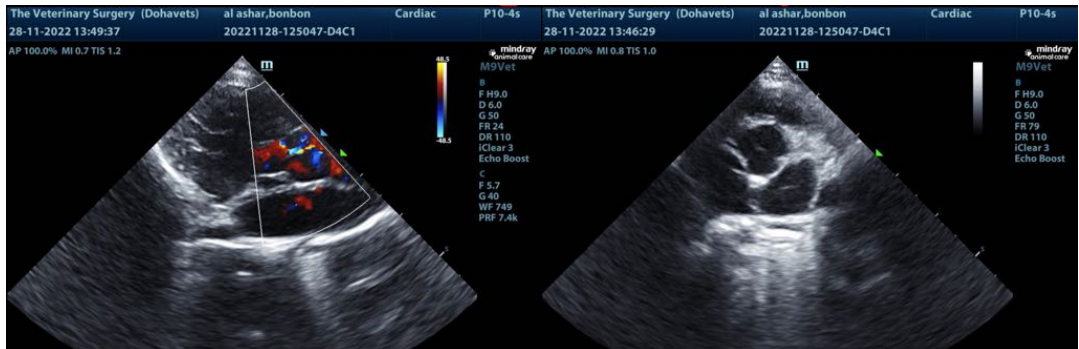
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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