



PATIENT PRESENTING CLINICAL SIGNS

Binx O'Neal Heart murmur noted when presented for OVH. Echo recommended prior to anesthesia. Butorphanol IM for sedation.

SPECIES Abnormal PE/Chem/CBC/UA Results: **PE: R apical Grade 4/6 systolic heart murmur.**

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED	FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
DSH	NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
	PATIENT		161	0.61	1.81	0.62	36	71
SEX	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/)	
Female								
AGE	NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
7 Months	PATIENT		1.3	1.32	0.90	0.88	NM	
WEIGHT	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							
6 Pounds								

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ebersole

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Moore

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. Mitral insufficiency noted with eccentric jet. The **left ventricle** presented normal contractility and internal volume, yet septal and free wall thicknesses were slightly excessive, possibly related to the ventricular septal defect noted. 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. A very small ventricular septal defect noted with left to right shunting. Maximum width of the shunt measured 0.40 cm. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. Trivial **tricuspid** insufficiency also noted. 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.

ULTRASONOGRAPHIC FINDINGS

- Mitral and tricuspid insufficiency and minor ventricular septal defect, all compensated

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The VSD may close in this patient. There is no overt contraindication to anesthetic procedure at this time. Prophylactic antibiotics recommended 5 days prior and 5 days post-surgery. I recommend assessing the breeding line in this patient. I do not recommend breeding this patient. The ventricular

DATE

9/1/22



PATIENT

Binx O'Neal

septal defect was localized to the membranous portion of the VSD as opposed to a muscular VSD. Recheck echo in 6 months. Torbutrol pre-med, Propofol induction, Isoflurane maintenance recommended for anesthesia. There is a good possibility that this level of ventricular septal defect may not potentially cause an issue in this patient. However, more information regarding this prognosis would be based on follow up echo at one year of age.

SPECIES

Feline

BREED

DSH

SEX

Female

AGE

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WEIGHT

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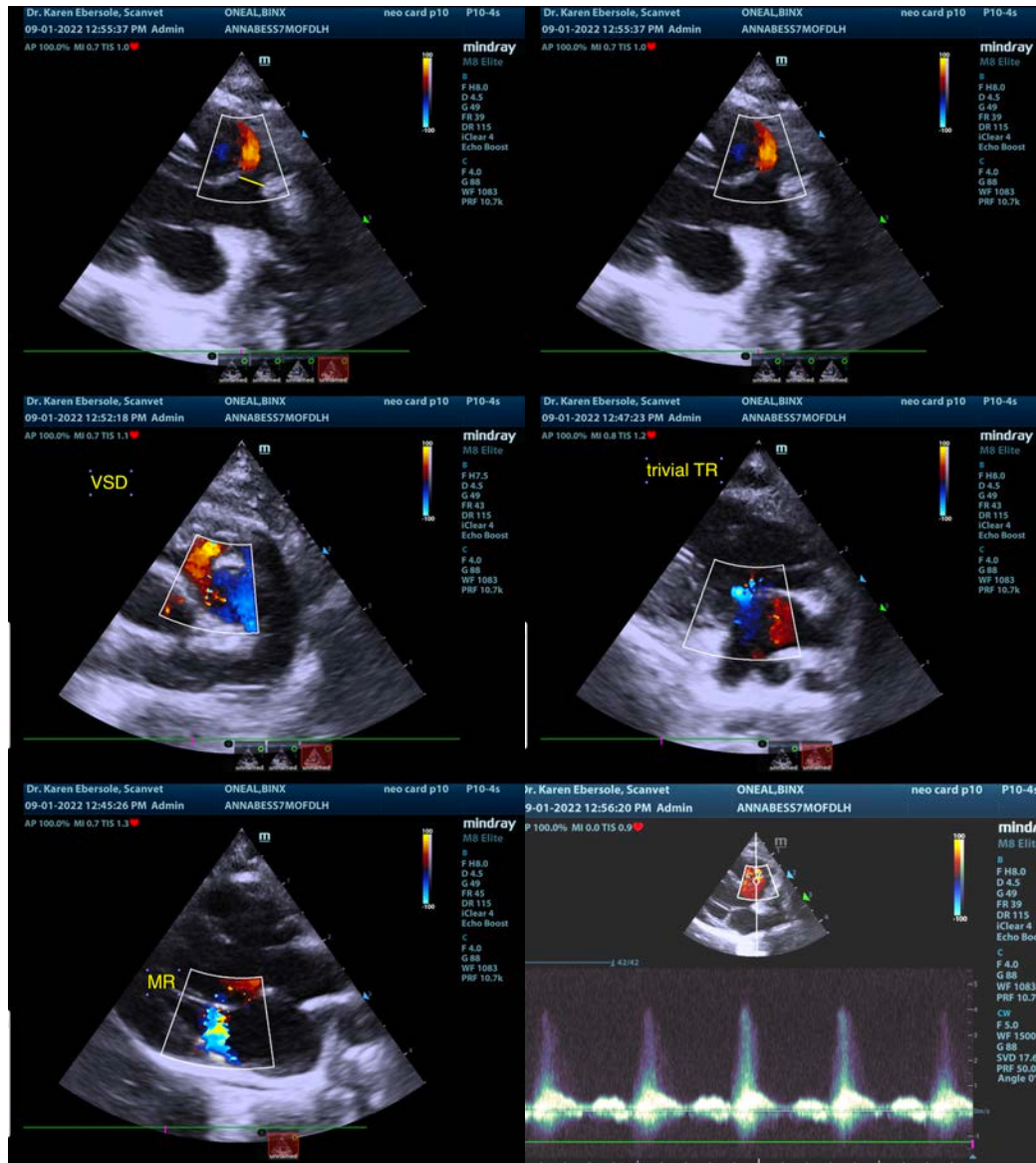
Dr. Moore

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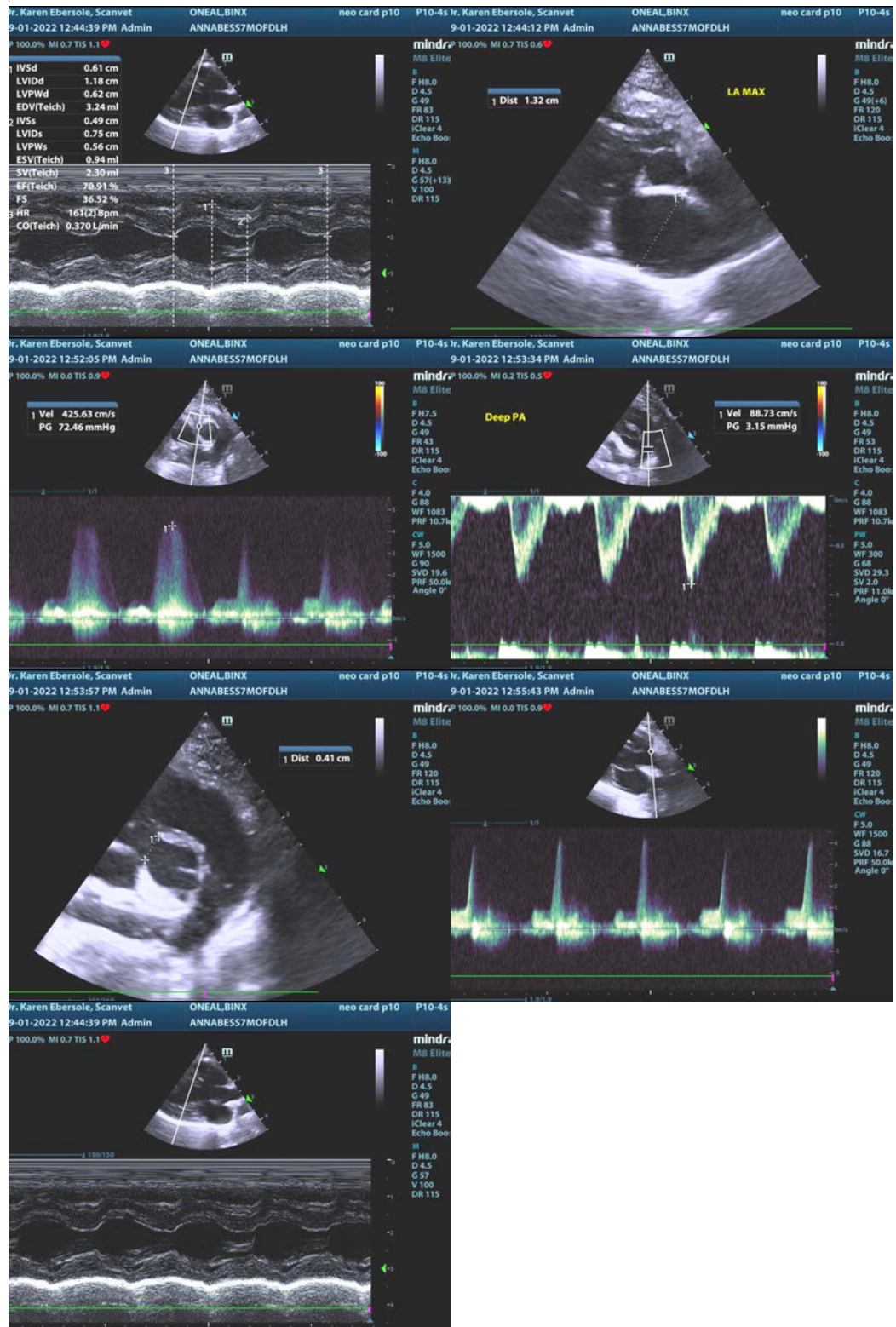
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PATIENT

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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.

SPECIES

Feline

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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