



PATIENT

Kanga Belle's Kitten
Dunham

SPECIES

Feline

BREED

Egyptian Mau

SEX

Male

AGE

18 weeks

WEIGHT

4 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Dr. Ebersole

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Giroux

INVOICE

32529

DATE

8/24/22

PRESENTING CLINICAL SIGNS

History: Heart murmur heard on a previous exam, no records available. No murmur audible on recheck yesterday. This kitten is 1lb smaller than littermate. Sedated with low dose Alfaxan and Torbugesic IM

Abnormal PE/Chem/CBC/UA Results: PE (8/23/22): BCS 4/9, no murmur audible. BW, drawn today for CBC/Chem

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. Minor **tricuspid** insufficiency was noted and measured 2 m/sec. The tricuspid valve revealed thickened, irregular, vegetative changes on both leaflets. The tricuspid insufficiency was noted in multiple views. I am concerned for primary tricuspid dysplasia. 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.

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	4 lbs	180	0.3	1.32	0.33	38	73
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	1.4	1.0 max	0.9	0.94	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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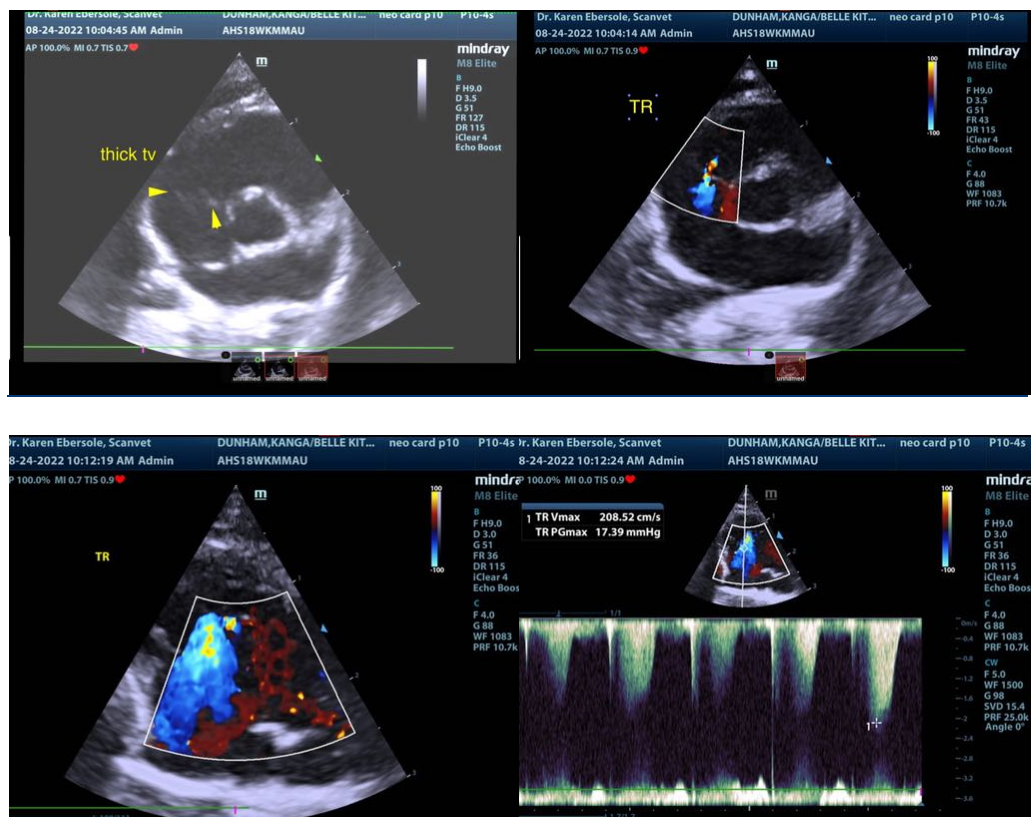
8/24/22

ULTRASONOGRAPHIC FINDINGS

Thickened tricuspid valve with moderate insufficiency. Concern for primary tricuspid dysplasia.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I cannot clear this patient for breeding. Infectious agents and low grade endocarditis is technically possible. Antibiotic protocol such as Zithromax could be considered for a trial of 3 weeks with a recheck sonogram. If any murmurs are present in the breeding line then an echocardiogram is indicated. If the lesion is persistent on follow up echocardiogram then further cardiologist evaluation is indicated to further classify the defect. Blood culture could also be considered. Assessment for any history of infectious disease within the litter.





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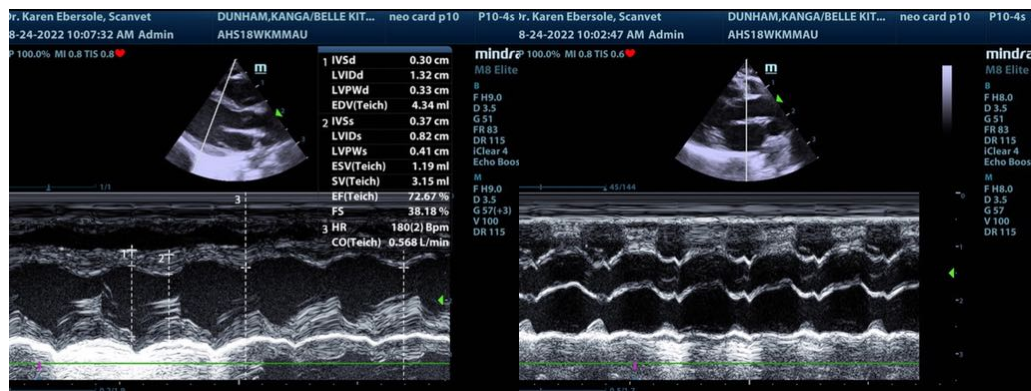
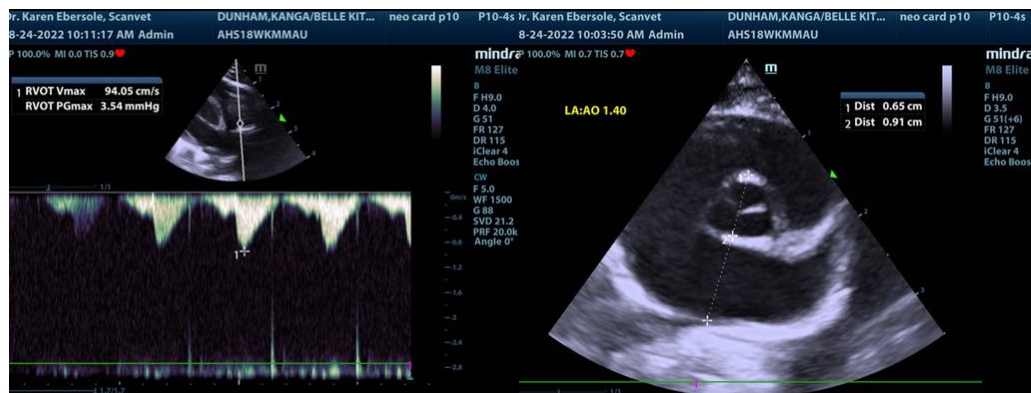
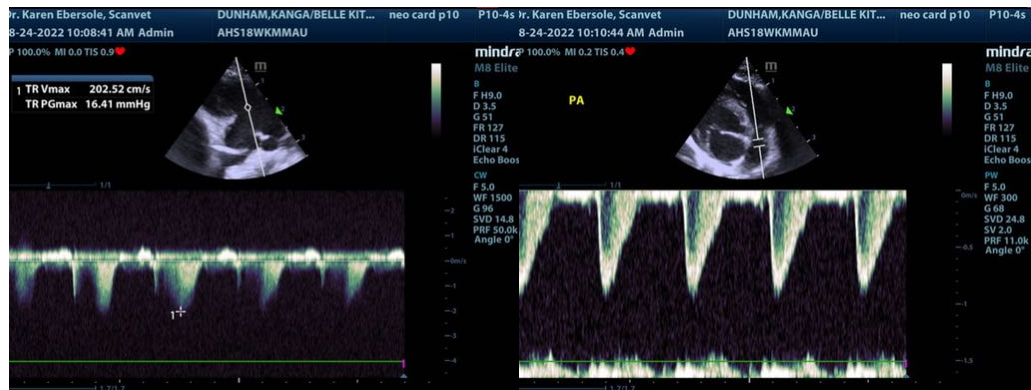
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
info@SonoPath.com