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Clinical Sonography & Telecytology
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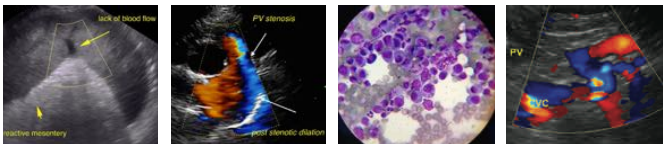

PATIENT

Charlie Kinyon

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed Female

AGE

11 years

WEIGHT

5.38 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Stegemoller

HOSPITAL NAME

North Idaho AH

REFERRING VET

Dr. Stegemoller

INVOICE

95360

DATE

1/18/22

PRESENTING CLINICAL SIGNS

Mild tachypnea noted over last 2 weeks.
Abnormal PE/Chem/CBC/UA Results: Right parasternal grade 3/6 systolic murmur. RR - 36, HR 220 Hypertension - severe (196/128), improved to 179/91 with 1.25mg amlodipine once daily (started Saturday). Cre 1.9, USG >1.040, TT4 2.3, TP 9.1, Glob 6.0 Previous extractions of all molars and premolars due to FORL.

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 size and thickness. **Myocardial** remodeling was noted in this patient, yet not a clinical issue at this time. **Contractility** and internal diameter were normal. 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.

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	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		230	0.5	1.0	0.5	55	
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		1.5	1.4 max				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

ULTRASONOGRAPHIC FINDINGS

Normal echocardiogram with myocardial remodeling.

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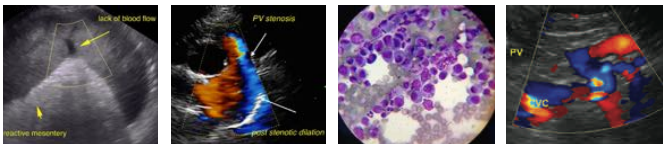

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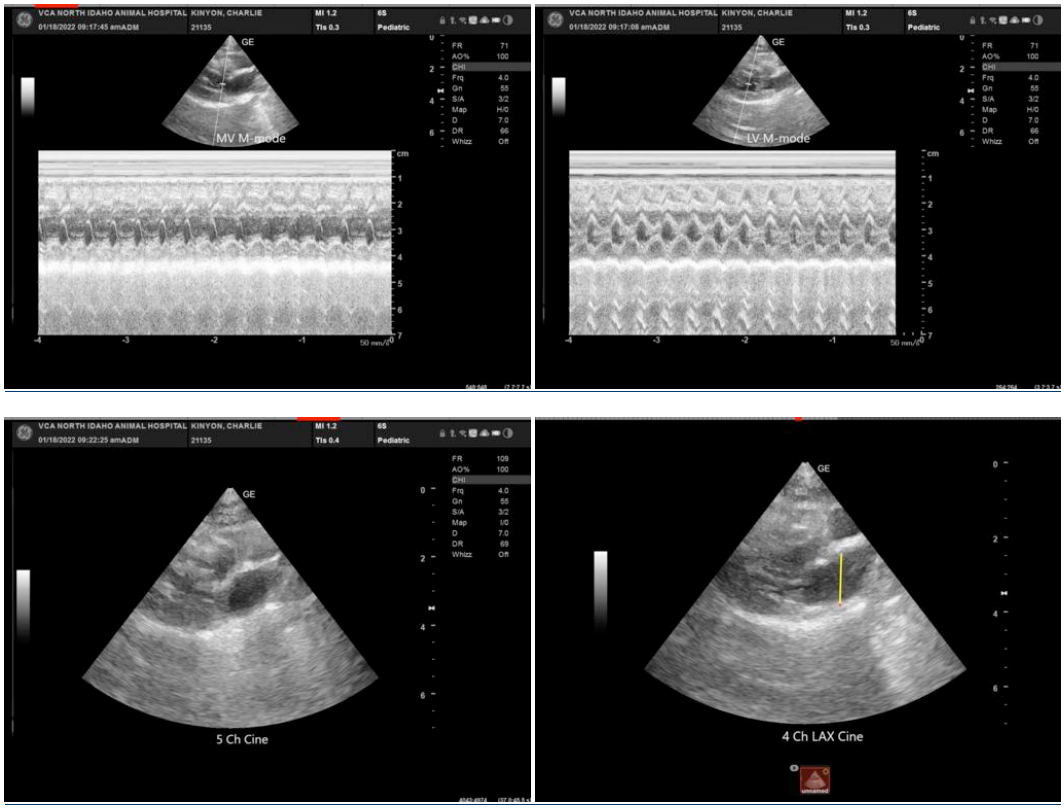
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The exact source of the murmur is unclear. However, this is not a clinical issue. This is likely a flow murmur. Hypertension is likely playing a role in the myocardial remodeling. Target systolic pressure is 160.

Benign flow murmurs are common in cats. This may be owing to volume shifts, tachycardia, benign (DRVOTO) right ventricular outflow changes, trivial turbulence in any of the valvular apparatuses, or possibly excessive stethoscope pressure against the chest according to a recent study These are physiologically benign and unrelated to specific pathology.



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