



PATIENT PRESENTING CLINICAL SIGNS

Oreo Kim Patient presented for trouble breathing. Hyperthyroid/Bronchopneumonia. Current meds: Tapazole 5mgs PO BID, Baytril 5 mgs/kg, Unasyn. In O2 therapy cage.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Feline

BREED

DSH

SEX

Neutered Male

AGE

15 Years

WEIGHT

7.8 Pounds

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		158	0.36	1.85	0.38	47	81
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		1.3	1.39	1.22	0.99	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

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. Mitral insufficiency noted, yet well contained. No volume overload noted in the left atrium. 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** was slightly enlarged. Minor **tricuspid** insufficiency noted. However, this is likely secondary to increasing pulmonary pressures. 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). Comet tail lung pattern noted in the peripheral lung fields. There is periodic arrhythmia in this patient. Systemic is suspected.

ULTRASONOGRAPHIC FINDINGS

- Minor mitral and tricuspid insufficiency
- No volume overload, no primary cardiac disease noted

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Primary respiratory disease suspected. Primary respiratory protocol recommended. EKG indicated. abdominal sonogram recommended to assess for associated primary disease. Treatment should be based on radiographic findings. Acute respiratory distress syndrome, bronchial disease, thromboembolic disease, pneumonitis should all be considered.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Westwood Regional

REFERRING VET

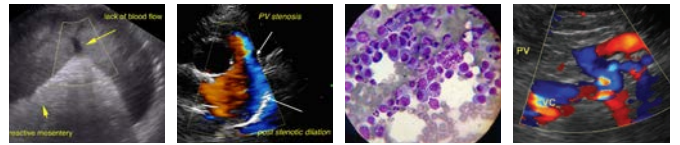
Dr. George Cattiny

INVOICE

33931

DATE

1/3/22



PATIENT

Oreo Kim

SPECIES

Feline

BREED

DSH

SEX

Neutered Male

AGE

15 Years

WEIGHT

7.8 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Westwood Regional

REFERRING VET

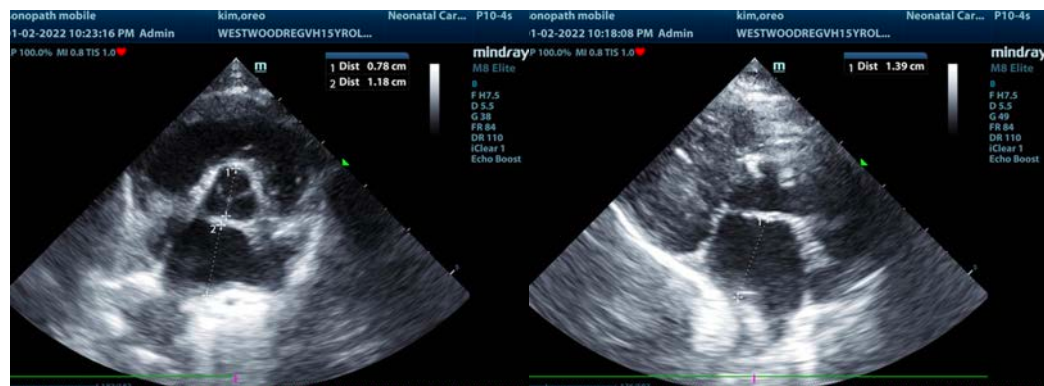
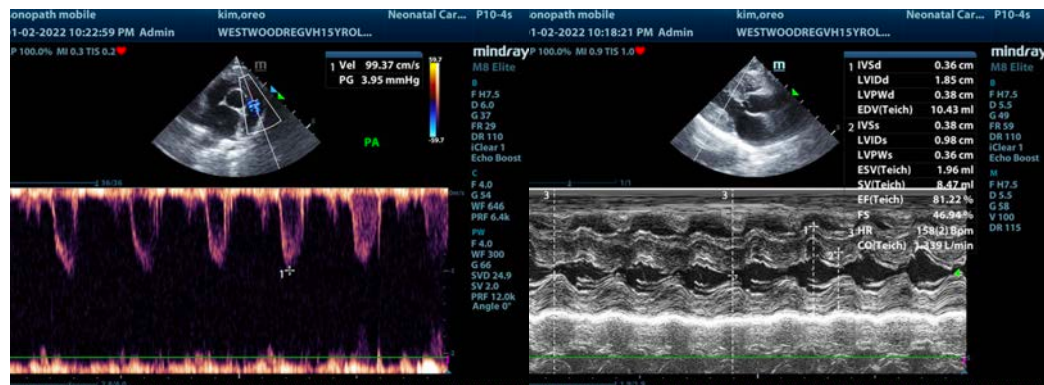
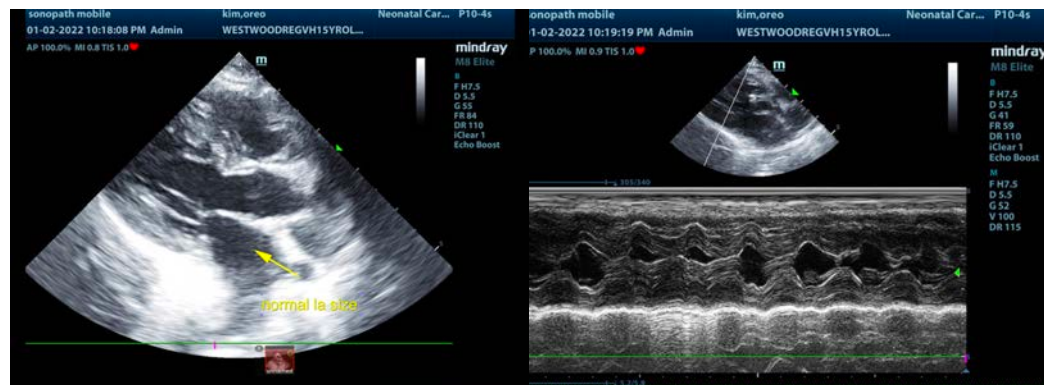
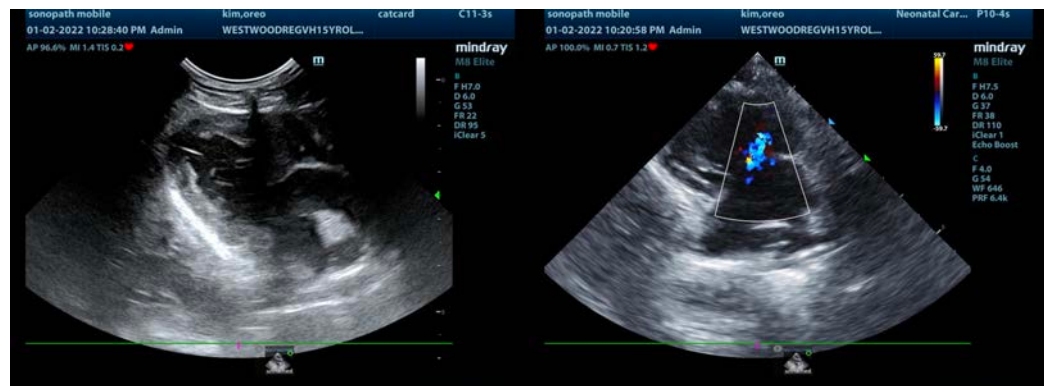
Dr. George Cattiny

INVOICE

33931

DATE

1/3/22





PATIENT

Oreo Kim

SPECIES

Feline

BREED

DSH

SEX

Neutered Male

AGE

15 Years

WEIGHT

7.8 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Westwood Regional

REFERRING VET

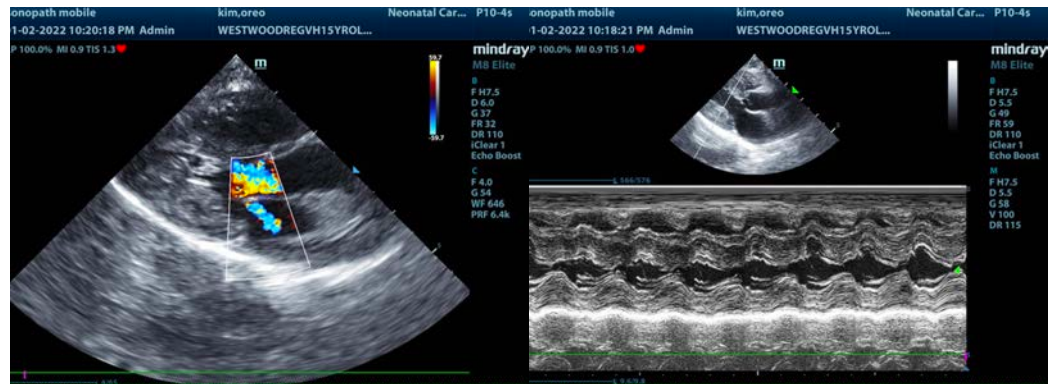
Dr. George Cattiny

INVOICE

33931

DATE

1/3/22



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