



**PATIENT**

LB George

**SPECIES**

Ferret

**BREED**

Ferret

**SEX**

Neutered Male

**AGE**

2 Years 3 Months

**WEIGHT**

2.54 kg

**PRESENTING CLINICAL SIGNS**

Obese animal with global fast findings possible enlarged atria and enlarged heart and likely poorly contracting ventriculus, fluid in lungs as of pulmonary edema. Also concern of unidentified tissues near prostate, possible prostatomegaly/ cystic prostate

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

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		NM	0.3	1.0	0.35	50	--
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	1.1	1.1	0.8		1.15	1.75	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

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Holly, LVT

**HOSPITAL NAME**

All Pets Medical

**REFERRING VET**

Dr. Jill Heatley

**Cardiac Presentation**

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** was mildly enlarged with a 1.5 to 1.0 ratio with the left atrium. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinetics. The **right ventricle** presented mild concentric hypertrophy. **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. An excessive amount of thoracic fat noted in this patient, measuring approximately 2.5 cm x 2.0 cm at the heart base.

**ULTRASONOGRAPHIC FINDINGS**

- Normal echocardiogram with mild right-sided enlargement
- Excessive thoracic fat

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Given the excessive thoracic fat in this patient, this is most consistent with Pickwickian syndrome and not clinically an issue. Weight loss protocol recommended. There is no evidence of pleural effusion.

**INVOICE**

37482

**DATE**

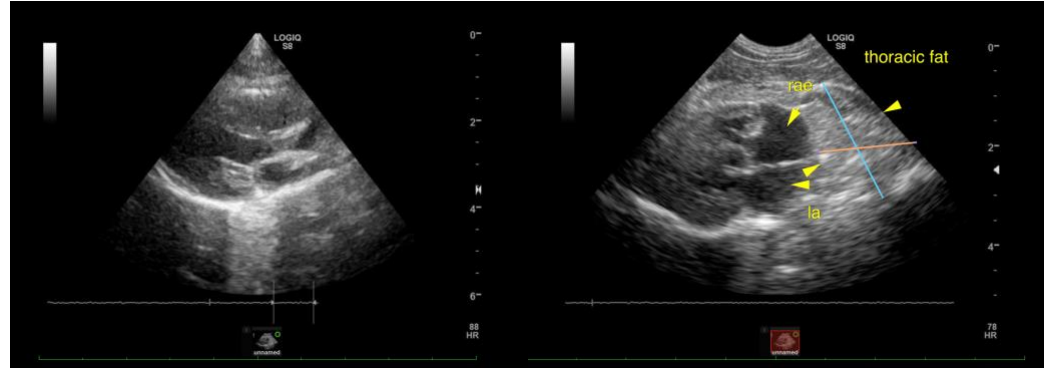
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**PATIENT**

No evidence of left-sided failure.

LB George



**SPECIES**

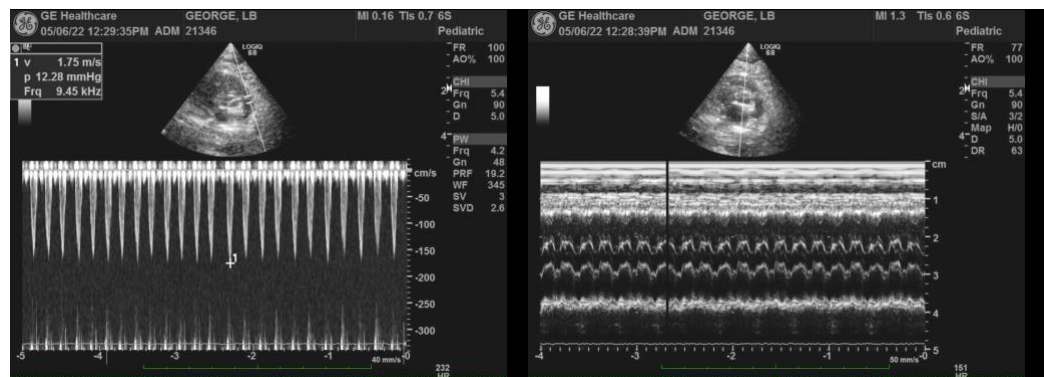
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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](mailto:info@SonoPath.com)

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