



PATIENT

Bindi Santana

SPECIES

Canine

BREED

Coonhound

SEX

Female

AGE

7y

WEIGHT

60

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Hesham Akbawy

HOSPITAL NAME

Lincoln Ave Cat and
Dog Hospital

REFERRING VET

Hesham Akbawy

INVOICE

13077

DATE

1/14/26

PRESENTING CLINICAL SIGNS

History: Problems grade 3/6 murmur Recurrent blood in urine All blood results normal including ProBNP & T4

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	--	--	--	1.2	36	68	0.45
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LAD LA MAX 4 Chamber	LVIDd Avg; 2D and m-mode short axis (cm)	LVIDs Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	NM	--	0.7	60	4.2	4.0	--

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 2 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented mild thickening consistent with mild degenerative change/endocardiosis. No evidence of valvular prolapse. Doppler indicated indistinct yet subjective mild eccentric MR. The **left ventricle** presented 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 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. **Tricuspid** valvular assessment demonstrated adequate linear morphology. 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. No echographically detectable evidence of cardiac / pericardial tumors was visible.

ULTRASONOGRAPHIC FINDINGS

- Compensated mitral valve insufficiency (B1)



PATIENT

Bindi Santana

SPECIES

Canine

BREED

Coonhound

SEX

Female

AGE

7y

WEIGHT

60

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Hesham Akbawy

HOSPITAL NAME

Lincoln Ave Cat and
Dog Hospital

REFERRING VET

Hesham Akbawy

INVOICE

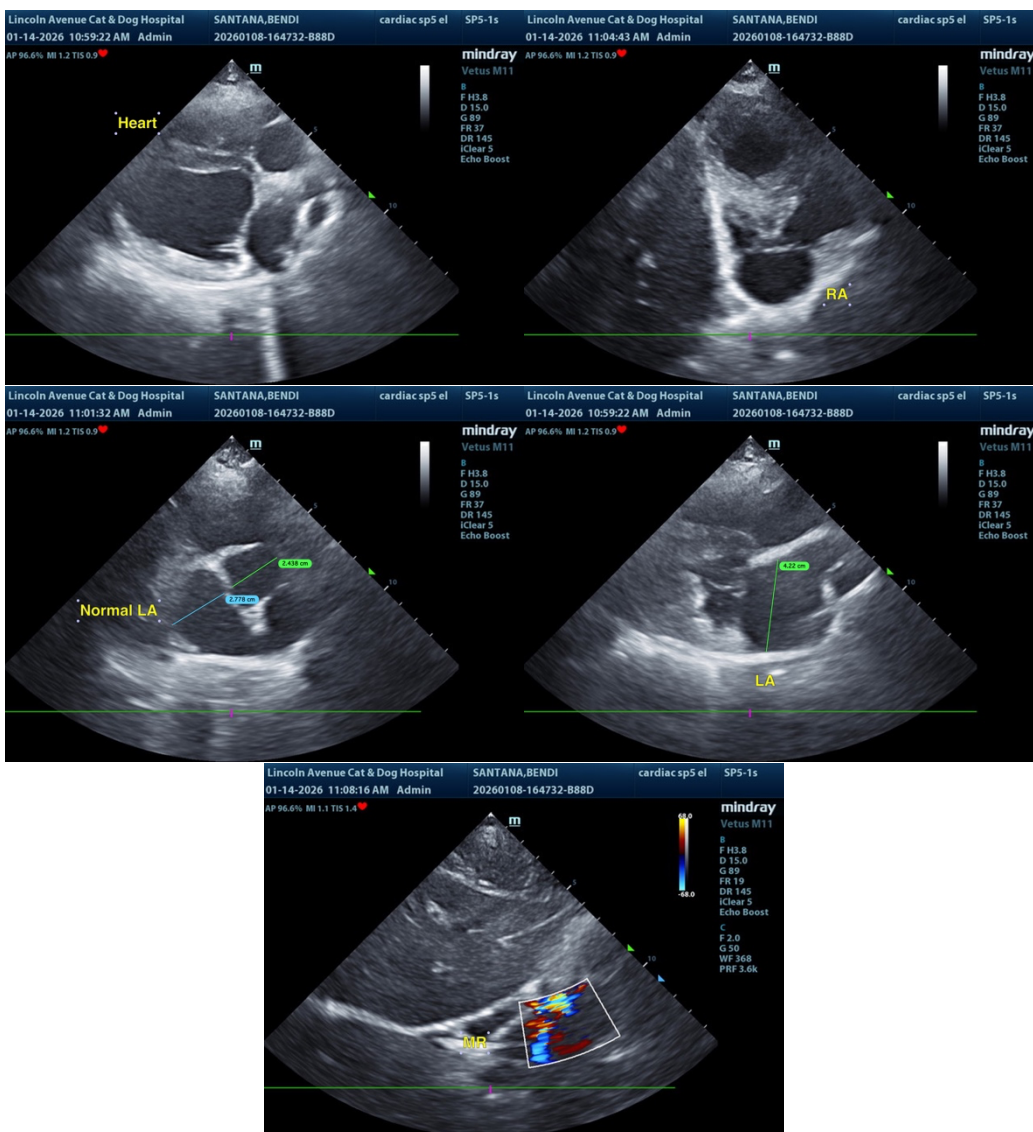
13077

DATE

1/14/26

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cause of the murmur is most consistent with mild chronic degenerative mitral valve changes and mild secondary eccentric MR. The hemodynamic effects of the MR and overall murmur appear low without evidence of left or right heart chamber enlargement or additional clinical issues such as LV systolic dysfunction or DCM criteria. In a presumed non-clinical patient without chamber enlargement, no indication for cardiac medications. Prognosis is considered variable and sonographic monitoring is advised. Recheck echo is recommended in 6 months, sooner if clinical signs initiate. Current anesthetic risk is considered low to mild. If required, the following protocol is recommended. Suggested anesthetic protocol may include opioid or Benzodiazepine pre-med, induction with Propofol or Alfaxalone, and appropriate gas anesthesia with avoidance of alpha 2 agonists.





PATIENT

Bindi Santana

SPECIES

Canine

BREED

Coonhound

SEX

Female

AGE

7y

WEIGHT

60

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Hesham Akbawy

HOSPITAL NAME

Lincoln Ave Cat and
Dog Hospital

REFERRING VET

Hesham Akbawy

INVOICE

13077

DATE

1/14/26

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@sonopath.com