


PRESENTING CLINICAL SIGNS

History: Has had a grade 3-4 murmur since birth, but more recently became grade 5-6/6. Hacking cough for past few months. Radiographs show cardiomegaly and possible pulmonary edema.

DATE

7/29/22

ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

PERFORMED BY:

Rachel Runnells, RVT

INTERPRETED BY

 Keith Blass, DVM,
 MS, DACVIM
 (Cardiology)

There is moderate to severe left atrial dilation. The mitral valve leaflets are thickened and exhibit mild systolic prolapse. A moderate to severe jet of eccentric mitral regurgitation is present. There is moderate to severe left ventricular dilation. Left ventricular systolic function is normal. The aorta and aortic valve appear normal, though there is mildly increased flow velocity in the ascending aorta. Right atrial and right ventricular dimensions are normal. There is prolapse of the septal tricuspid valve leaflet, and a mild jet of tricuspid regurgitation is present. TR velocity is consistent with the presence of mild pulmonary hypertension (PG 37 mmHg). The pulmonary artery and pulmonic valve appear normal, though trivial pulmonic insufficiency is present. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

PATIENT

Sparrow Graves

LA - 52.9 mm
 LVIDd - 51.5 mm
 LVIDs - 36.9 mm
 FS - 28.3%
 RA - 28.6 mm
 LVOT - 1.63 m/s
 RVOT - 1.13 m/s
 TR - 3.06 m/s

SPECIES

Canine

ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease
 Pulmonary hypertension

BREED

Heeler

This examination demonstrates regurgitation of blood across Sparrow's mitral and tricuspid valves resulting from degenerative valve disease. Sparrow's tricuspid valve disease is mild, and appears to be well-compensated at this time. His mitral valve disease is significantly more advanced, as Sparrow has moderate to severe mitral regurgitation present, with moderate to severe secondary dilation of both his left atrium and left ventricle, as well as mild secondary pulmonary hypertension. Given the severity of his mitral valve disease, it's likely that mainstem bronchial compression is contributing to Sparrow's cough, and it would come as no surprise if his radiographs did indeed show the presence of cardiogenic pulmonary edema.

SEX

MN

AGE

12 y

Recommended therapy based on this exam and Sparrow's reported radiographic findings includes furosemide (30 mg BID), enalapril (10 mg BID), and pimobendan (7.5 mg am, 5 mg pm).

A renal/electrolyte profile +/- recheck radiographs is recommended in 1-2 weeks. A recheck echocardiogram is recommended in ~6 months.

WEIGHT

47 lb

HOSPITAL NAME

SVS Imaging KC

REFERRING VET

Dr. Mervin



DATE

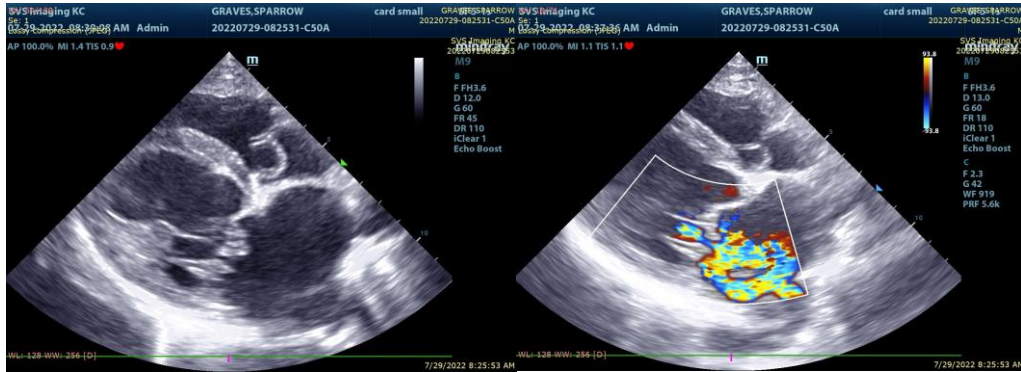
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PATIENT

Sparrow Graves

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.

SPECIES

Canine

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.

BREED

Heeler

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SEX

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