



PATIENT PRESENTING CLINICAL SIGNS

Rake Hess
History: Macrothrombocytosis, seizures, labored breathing, cough
Medication: Lasix

SPECIES

Canine

ECHOCARDIOGRAPHIC FINDINGS

Multiple 2D, M-mode, and Doppler video loops and still images are submitted for review.

BREED

Cavalier King Charles

There is moderate left atrial dilation. The mitral valve leaflets are thickened and exhibit systolic prolapse. A moderate to severe jet of eccentric mitral regurgitation is present. There is moderate left ventricular dilation. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve are normal. Right atrial and right ventricular dimensions are normal. There is mild thickening of the tricuspid valve leaflets, and a mild jet of tricuspid regurgitation is present. TR velocity does not suggest the presence of pulmonary hypertension. The pulmonary artery and pulmonic valve are normal. No pericardial effusion or cardiac masses are seen.

SEX

Male Neutered

AGE

7 years

LA - 33.7 mm
LVIDd - 32.6 mm
LVIDs - 16.7 mm
FS - 48.8%
RA - 20.2 mm
LVOT - 1.19 m/s
RVOT - 1.27 m/s
TR - 2.53 m/s

WEIGHT

13.2#

INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM

ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease

IMAGING PERFORMED BY

Rebekah Jakum, RVT,
CVT

This examination demonstrates regurgitation of blood across Rake's mitral and tricuspid valves resulting from his previously diagnosed degenerative valve disease. Rake's tricuspid valve disease is mild, and appears to be well-tolerated at this time. His mitral valve disease is more advanced, as Rake has moderate to severe mitral regurgitation present, with moderate secondary dilation of both his left atrium and left ventricle, though his left ventricular systolic function is well-preserved. Given the presence of moderate left heart chamber dilation, it's possible that mainstem bronchial compression could be contributing to Rake's cough, and, while I don't see evidence of cardiogenic pulmonary edema in Rake's radiographs, the presence of early congestive heart failure cannot be ruled out as a possible cause of his labored breathing.

HOSPITAL NAME

Mill Pond VC

I recommend starting Rake on pimobendan (1.25 mg BID), as this medication should help to slow the progression of his valvular diseases. A continued trial with furosemide (12.5 mg BID) also appears to be warranted to see if this improves Rake's respiratory clinical signs. If furosemide is to be continued long-term, the addition of enalapril (2.5 mg BID) would also be warranted.

REFERRING VET

Dr. Kulia

A recheck physical exam and renal/electrolyte profile are recommended in one week (if furosemide and enalapril are to be continued as maintenance therapy). A recheck echocardiogram is recommended in 6-9 months.

DATE

3.17.2022

