


RESENTING CLINICAL SIGNS

History: Suspect syncope. BNP 3075.

DATE

5/4/23

ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

PERFORMED BY:

Jessica Miller

INTERPRETED BY

 Keith Blass, DVM,
 MS, DACVIM
 (Cardiology)

Left atrial size is normal. The mitral valve leaflets are mildly thickened, and a mild jet of mitral regurgitation is present. There is mild to moderate left ventricular dilation. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve appear normal, though there is mildly increased flow velocity in the ascending aorta. There is mild right atrial and right ventricular dilation. The tricuspid valve leaflets are mildly thickened, and a mild jet of tricuspid regurgitation is present. TR velocity is consistent with the presence of elevated right ventricular systolic pressure. The pulmonic valve subjectively appears normal, though there is significantly elevated flow velocity across the valve, consistent with the presence of severe valvular stenosis (PG 131 mmHg). The main pulmonary artery appears normal. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

PATIENT

Dozer Weed

 LA - 32.0 mm
 LVIDd - 28.7 mm
 LVIDs - 11.6 mm
 FS - 59.6%
 RA - 35.9 mm
 LVOT - 2.00 m/s
 RVOT - 5.73 m/s
 TR - 4.45 m/s

SPECIES

Canine

ASSESSMENT/RECOMMENDATIONS
BREED

Bulldog Mix

 Pulmonic stenosis
 Degenerative mitral and tricuspid valve disease

SEX

MN

This examination demonstrates significantly elevated flow velocity across Dozer's pulmonic valve, consistent with the presence of valvular stenosis. Secondary to the stenosis, Dozer has mild dilation of his right heart chambers, and it's very likely that the stenosis is the cause of his syncopal episodes. In addition to syncope, dogs with severe pulmonic stenosis are at risk for the development of exercise intolerance, right-sided congestive heart failure, and arrhythmia formation, the latter of which could potentially result in sudden death, therefore, careful monitoring for these is recommended.

AGE

6 y

Also seen in this exam is mild regurgitation of blood across Dozer's mitral and tricuspid valves resulting from degenerative valve disease. Dozer's tricuspid regurgitation velocity is elevated, though this is very likely secondary to his pulmonic stenosis rather than suggesting the presence of pulmonary hypertension.

WEIGHT

54.2 lb

The ideal treatment for Dozer's pulmonic stenosis would be pulmonic balloon valvuloplasty. I suspect that Dozer would be a good candidate for this procedure, though, given his breed, additional diagnostics, such as cardiac angiography or transesophageal echocardiography, may be necessary to rule out the presence of an aberrant coronary artery that would be a contraindication to the balloon procedure. In the meantime, I recommend starting Dozer on atenolol (25 mg BID), as this medication may potentially help to reduce his risk for additional syncopal episodes and possesses anti-arrhythmic properties.

HOSPITAL NAME

Fredon AH

No therapy is recommended for Dozer's valvular diseases at this time.

REFERRING VET

Dr. Goldstein



A recheck echocardiogram is recommended in 6-9 months if balloon valvuloplasty is not pursued.

DATE

5/4/23

PERFORMED BY:

Jessica Miller

INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM
(Cardiology)

PATIENT

Dozer Weed

SPECIES

Canine

BREED

Bulldog Mix

SEX

MN

Keith Blass, DVM, MS, DACVIM (Cardiology)
KeithBlass@gmail.com
631-804-5754

AGE

6 y

WEIGHT

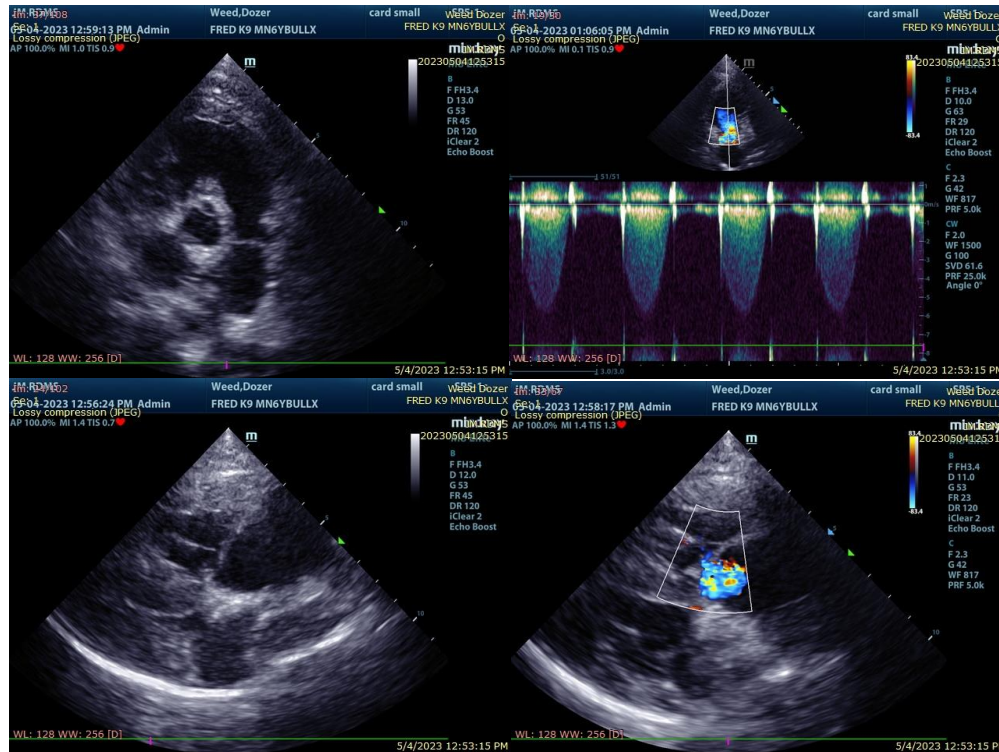
54.2 lb

HOSPITAL NAME

Fredon AH

REFERRING VET

Dr. Goldstein



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.