
**PRESENTING CLINICAL SIGNS**

**DATE** History: Presented 3/6/23 for heaving breathing, coughing, and choking. History of severe respiratory infection as puppy. Was doing well since until recently. Grade 3/6 murmur. Started on antibiotics.

3/9/23

**ECHOCARDIOGRAPHIC FINDINGS**

**PERFORMED BY:** 2D, M-mode, and Doppler study.

Loetitia Saint-Jacques, LVT

**INTERPRETED BY** Left atrial size is normal. The mitral valve is normal. Left ventricular dimensions are normal. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve are normal. There is mild right atrial dilation. Right ventricular dimensions are normal. The tricuspid valve leaflets are mildly thickened, and there is Doppler evidence of tricuspid regurgitation present. TR velocity does not suggest the presence of pulmonary hypertension, however, the Doppler signal is weak and could potentially be underestimating the true velocity. There is mild flattening of the interventricular septum. The pulmonary artery and pulmonic valve are normal. No shunting lesions are visualized. No heartworms are visualized. No pericardial effusion or cardiac masses are seen.

Keith Blass, DVM, MS, DACVIM (Cardiology)

**PATIENT** LA - 27.8 mm  
 LVIDd - 24.1 mm  
 LVIDs - 12.7 mm  
 FS - 47.3%  
 RA - 30.5 mm  
 LVOT - 1.72 m/s  
 RVOT - 0.67 m/s  
**SPECIES** TR - 2.30 m/s

Bruno Wraught

Canine **ELECTROCARDIOGRAPHIC FINDINGS**  
 A six lead ECG is submitted for review.

**BREED** HR: 158 bpm  
 Rhythm: Sinus

French Bulldog

**SEX** Mild sinus tachycardia is present throughout this recording. The MEA is normal. All complex amplitudes and intervals are within normal limits. No premature beats or conduction blocks are seen.

**MN** **RADIOGRAPHIC FINDINGS**  
 Three-view thoracic radiographs are submitted for review.

**AGE** The cardiac silhouette is normal in size, with no specific chamber enlargement present. The pulmonary vessels are within normal limits. There are mild pulmonary bronchial markings. The pleural space is within normal limits. The trachea is normal. The remainder of the thorax is unremarkable.

11 y

**WEIGHT** **ASSESSMENT/RECOMMENDATIONS**  
 Degenerative tricuspid valve disease  
 Possible pulmonary hypertension

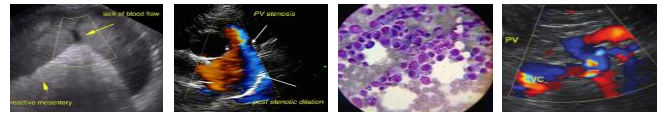
36 lb

**HOSPITAL NAME** This examination demonstrates regurgitation of blood across Bruno's tricuspid valve resulting from degenerative valve disease. Secondary to the regurgitation, Bruno has mild dilation of his right atrium. Bruno's tricuspid regurgitation velocity is not consistent with the presence of pulmonary hypertension, however, he does have mild flattening of his interventricular septum, suggesting that some degree of pulmonary hypertension may be present (Bruno's Doppler TR signal is weak and could potentially be underestimating the true velocity). If pulmonary

Peavine AH

**REFERRING VET**

Dr. Baggett



DATE

3/9/23

hypertension is present, it could potentially be contributing to Bruno's heavy breathing. No obvious other cause of Bruno's respiratory clinical signs is appreciated in his radiographs, though consideration should be given to inflammatory airway disease and brachycephalic upper airway syndrome as possible causes.

No abnormalities are appreciated in Bruno's ECG.

PERFORMED BY:

Loetitia Saint-Jacques, LVT

Consideration can be given to a trial with sildenafil (30 mg BID) to see if therapy for pulmonary hypertension improves Bruno's breathing. No therapy is recommended for Bruno's tricuspid valve disease at this time.

INTERPRETED BY

A recheck echocardiogram is recommended in 6 months.

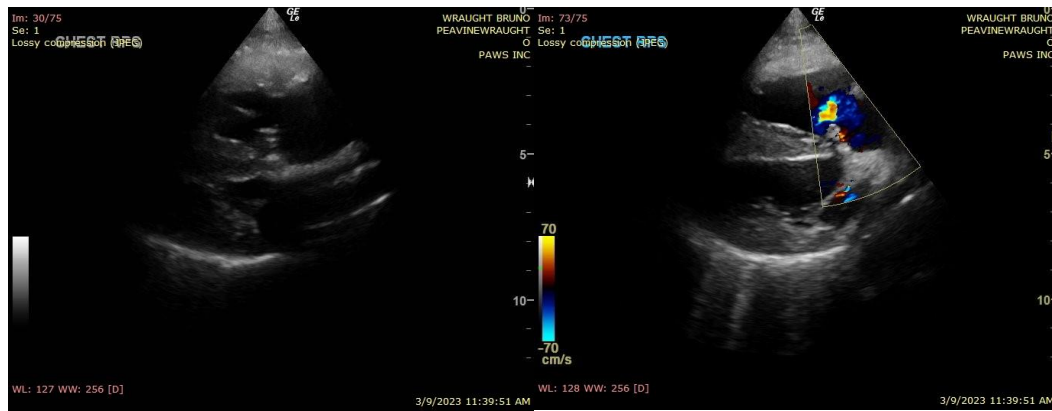
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PATIENT

Bruno Wraught

SPECIES

Canine



BREED

French Bulldog

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.

SEX

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.

MN

Keith Blass, DVM, MS, DACVIM (Cardiology)

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631-804-5754

AGE

11 y

WEIGHT

36 lb

HOSPITAL NAME

Peavine AH

REFERRING VET

Dr. Baggett