



**PATIENT**

Charlotte Spear

**SPECIES**

Canine

**BREED**

American Bulldog

**SEX**

Female Intact

**AGE**

2 years

**WEIGHT**

45.5lbs

**PRESENTING CLINICAL SIGNS**

History: Charlotte is referred for a heart murmur noted in September. Doing well - no coughing, no dyspnea. Her activity level is low. Her appetite is good. Assess prior to breeding. CV/RESP: NSR, grade III/VI murmur with PMI left apical area, PSS, lung fields clear. BP: 130mmHg. No medications. \*No sedation for study.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and Doppler imaging is available.

**Left ventricle:** The LV diameter is normal with adequate myocardial function. LV wall thicknesses are normal.

**Left atrium:** The left atrium is mildly dilated.

**Mitral valve:** The mitral valve is normal. No mitral regurgitation.

**Aortic valve/aorta:** The aortic valve is normal in morphology and mobility. Slight narrowing of the LVOT noted (see below). Mildly elevated aortic outflow velocity; laminar flow. No aortic insufficiency.

**Right ventricle:** Normal right ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension.

**Right atrium:** Normal RA dimension.

**Tricuspid valve:** The tricuspid valve appears normal with trace tricuspid regurgitation; normal velocity.

**Pulmonic valve/pulmonary artery:** The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. Normal RVOT velocity; laminar flow.

**Pericardium/other:** No pericardial or pleural effusion noted. No obvious cardiac masses.

**Heart rhythm:** ECG reveals a sinus rhythm with an average HR of 130bpm.

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**2-Dimensional Measurements**

Ao diam (cm)	2.0
LA diam (cm)	2.4
LA:Ao (Swe)	1.2
IVS thickness (cm)	0.8
LVID diastole (cm)	3.5
PW thickness (cm)	0.8
LVID systole (cm)	1.8
FS (%)	49

**Doppler Measurements**

PV Vmax (m/s)	1.2
AoV Vmax (m/s)	2.6
MR Vmax (m/s)	NA
TR Vmax (m/s)	NM
TR PG (mmHg)	NA

**IMAGING PERFORMED BY**

Pamela Harrigan,  
RDCS

**HOSPITAL NAME**

Mass Veterinary Services

**INTERPRETATION OF THE FINDINGS**

The cause of the murmur is trivial subaortic stenosis (SAS) causing a mildly elevated blood flow velocity through the LVOT and aortic valve. The peak gradient seen here is mild, and the LV appears largely normal. No additional issues are identified in this study.

**REFERRING VET**

Dr. Masloski

The prognosis with trivial SAS is good, with most dogs able to live a normal lifespan free of complication. Serial echocardiography is recommended intermittently lifelong to screen for any progressive issues. Prognosis is good.

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Although the prognosis is good for this patient, any degree of AS or SAS is a contraindication for breeding due to the genetic link of the disease. If desired, a second opinion can be sought through an OFA screening by a board certified Cardiologist as the gold standard screening exam.

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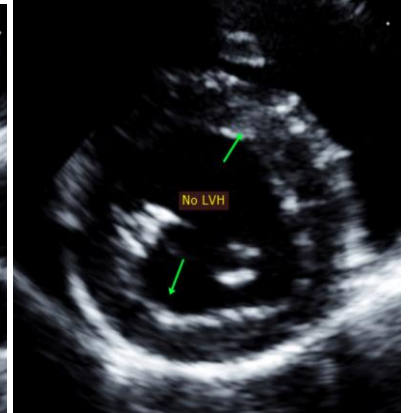
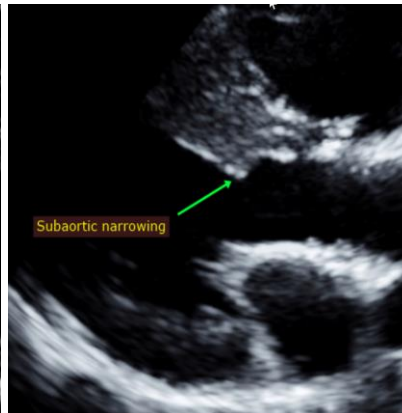
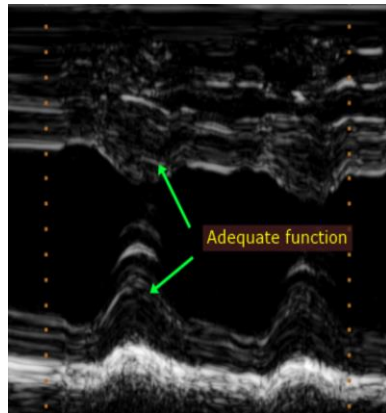
**RECOMMENDATIONS**

- In an asymptomatic dog with trivial stenosis, no cardiac medications are clearly indicated.
- Breeding is contraindicated based upon what is seen here.
- Monitor for development of labored breathing, exercise intolerance or collapse episodes.
- No cardiac contraindication for general anesthesia. Avoid heart rate stimulating drugs such as atropine or glycopyrrolate unless clinically indicated.

**PLAN**

- Recommend recheck echocardiogram in 1 year to screen for progression and/or development of disease the preexisting murmur may mask, sooner if any clinical signs arise.

**IMAGES**

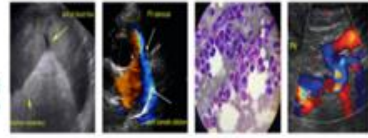


The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

**Maggie Machen Lamy, DVM**  
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)  
info@sonopath.com

**Echocardiogram performed by:** Pamela Harrigan, RDCS  
Pet Animal Ultrasound Service (4paus.com)



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