



PRESENTING CLINICAL SIGNS

History: Hospitalized for pancreatitis. Has abnormal heart rhythm. Also has Lyme disease and a swollen front left paw. VHS 11-11.5, lungs clear.

DATE

12/14/21

ELECTROCARDIOGRAPHIC FINDINGS

A single lead ECG is submitted for review.

PERFORMED BY:

HR: 214 bpm
Rhythm: Ventricular vs. supraventricular tachycardia

Kim Liedberg

INTERPRETED BY

A regular tachycardia is present. The QRS complexes are wide. Definitive evidence of P waves is not visible. No conduction blocks are seen.

Keith Blass, DVM,
MS, DACVIM
(Cardiology)

ASSESSMENT/RECOMMENDATIONS

Stella's ECG demonstrates the presence of a wide complex tachycardia. Wide-complex tachycardias are typically ventricular in origin, and it's likely Stella's is as well, though the presence of a supraventricular tachycardia conducted with aberrancy, with P waves hidden in the previous T wave, cannot be definitively ruled out.

PATIENT

Stella Wolf

Given the presence of pancreatitis, this may be the cause of Stella's tachyarrhythmia, however, other causes, such as myocardial dysfunction, splenic/hepatic disease, drug/toxin exposure, and severe electrolyte abnormalities, should be considered as well.

SPECIES

Canine

Given the likely presence of ventricular tachycardia, IV lidocaine (2 mg/kg slow IV) appears to be warranted. This can be repeated up to 3 more times within an hour if needed. If lidocaine resolves the arrhythmia, oral maintenance therapy with sotalol (60 mg BID if relevant structural heart disease is not present) or mexiletine (200 mg TID with food if relevant structural heart disease is present) would be warranted, though a concurrent lidocaine CRI (30-75 mcg/kg/min) may be needed at first. If lidocaine does not improve Stella's arrhythmia, a trial with diltiazem (0.1 mg/kg slow IV, can repeat every 2-3 minutes up to a total of 0.5 mg/kg if needed) may be warranted in case a supraventricular tachycardia with aberrancy is present. Should this resolve Stella's arrhythmia, oral maintenance diltiazem therapy (30 mg TID) would be warranted.

BREED

American Bulldog Mix

SEX

A recheck ECG is recommended in 24 hours.

FS

AGE

12 y

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.

WEIGHT

64.5 lb

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.

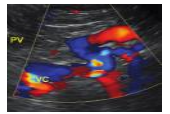
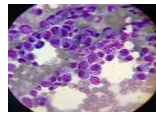
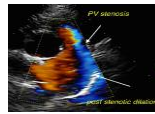
HOSPITAL NAME

SVS Imaging WI

Keith Blass, DVM, MS, DACVIM (Cardiology)
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631-804-5754

REFERRING VET

Dr. Herlugson



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