



PATIENT

Walter Ruddell

PRESENTING CLINICAL SIGNS

History: Arrhythmia on exam. Echo showed suspicion for early DCM. ECG showed isolated VPCs; holter recommended.

SPECIES

Canine

HOLTER MONITOR FINDINGS AND RHYTHM ASSESSMENT

BREED

Great Dane

Time analyzed	38:28h
Mean heart rate	96bpm
Maximum heart rate	220bpm
Minimum heart rate	38Bpm
VPCs	4077; 4027 singles, 9 pairs, 1 run, 9 triplets
APCs	273; 194 singles, 9 pairs, 15 runs

SEX

Male Neutered

Interpretation: Underlying normal sinus rhythm with appropriate rate variation. Frequent ventricular arrhythmias throughout; singles, couplets (R on T phenomenon), triplets/brief run of VT seen. Periods of bigeminy and trigeminy. VPCs are primarily RBBB morphology, indicative of an LV origin. Isolated APCs with brief SVT. No correlation of malignant arrhythmias can be made with the diary, suggesting independence of activity. The max HR is sinus in origin and occurs with activity.

AGE

7 years

WEIGHT

163 lbs

Rhythm diagnosis: Sinus rhythm with malignant ventricular and supraventricular arrhythmias.

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

RECOMMENDATIONS

Sinus rhythm with frequent ventricular arrhythmias. While the frequency is notable, the findings of R on T couplets and occasional runs of VT are what are highly concerning. This is considered an unstable rhythm, and initiation of anti-arrhythmic therapy is advised. Interpretation: Underlying normal sinus rhythm with presumably appropriate rate variation (no diary provided). Frequent ventricular arrhythmias throughout; singles, couplets and runs of VT seen. Periods of bigeminy and trigeminy. VPCs are primarily RBBB morphology, indicative of an LV origin. Rare APCs.

IMAGING PERFORMED BY

Rhythm diagnosis: Sinus rhythm with malignant ventricular arrhythmias; salvos of VT.

HOSPITAL NAME

Lee's Summit AH
North

RECOMMENDATIONS

Sinus rhythm with frequent ventricular arrhythmias. While the frequency is notable, the findings of couplets and occasional runs of VT are what are highly concerning. This is considered an unstable rhythm, and initiation of anti-arrhythmic therapy is advised. There are also occasional supraventricular arrhythmias, which are overall less concerning. Given the breed, this is indicative of the arrhythmic form of DCM. The echocardiogram showed mild LV dysfunction, which may also progress to fulminant DCM in the future.

REFERRING VET

Dr. Mervin

Sotalol is recommended in this patient as below. Watch for any significant lethargy or collapse in the patient while initiating the medication. Ensure that the sinus resting heart rate is not significantly decreased by the medication, particularly should any symptoms develop. It is important to note that even in human trials, anti-arrhythmics have not been shown to prevent sudden death in these patients, and high risk will unfortunately persist. Activity/stress restriction is advised.

INVOICE

27338

Monitor for any significant lethargy or collapse in the patient while going forward, and particularly while initiating the medication.

DATE

11/8/22



PATIENT

Fish oil supplementation is recommended for dogs with arrhythmias (1000mg of omega 3 and 6 once to twice daily).

Walter Ruddell

SPECIES

Plan: Institute sotalol 1-2mg/kg q12h. Recheck ECG and/or holter monitor (gold standard) and HR/BP in 2-4 weeks to assess response.

Canine

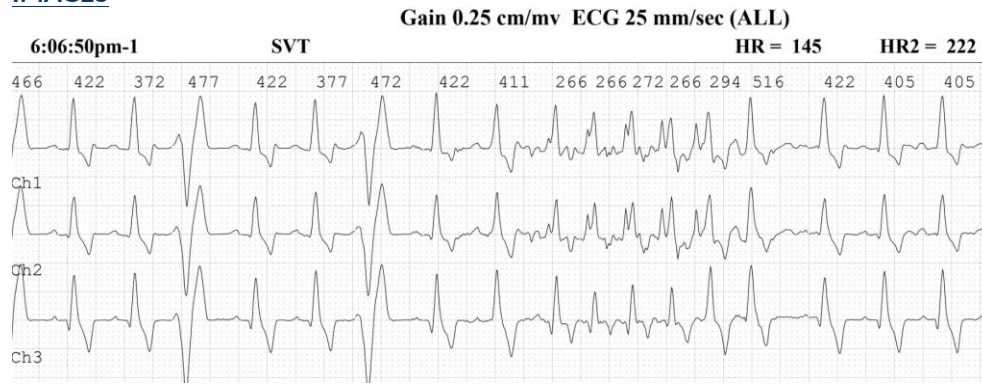
Monitor at home for collapse, exercise intolerance, and/or lethargy. Once on the medication, a recheck ECG/holter monitor/BP/echocardiogram is recommended in 6 months, sooner if episodes of collapse occur.

BREED

Great Dane

IMAGES

SEX



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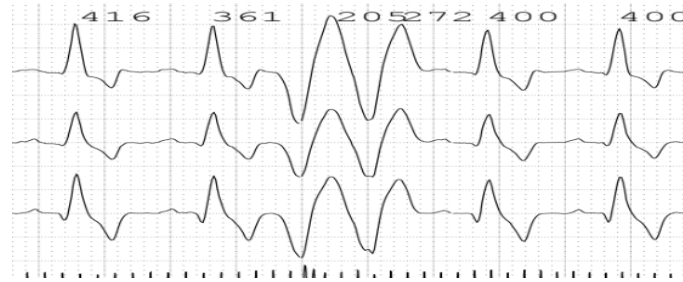


Maggie Machen Lamy,
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HOSPITAL NAME

Lee's Summit AH
North



REFERRING VET

Dr. Mervin

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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.

DATE

11/8/22



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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.

SPECIES

Canine

Maggie Machen Lamy, DVM

Diplomate of the American College of Veterinary Internal Medicine (Cardiology)

info@sonopath.com

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Great Dane

SEX

Male Neutered

AGE

7 years

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