



PATIENT	PRESENTING CLINICAL SIGNS
Patton Zatta	History: Arrhythmia on routine exam.
SPECIES	ELECTROCARDIOGRAPHIC FINDINGS *Note: Single lead ECGs are evaluated as a rhythm strip. Morphology/MEA cannot be definitively commented on.
Canine	A single lead ECG is available; 25mm/s, 10mm/mV. The average heart rate is estimated as 150bpm (mm marks difficult to visualize). The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive. Frequent isolated monomorphic VPCs throughout; 18 total. No couplets, triplets or VT seen. No supraventricular ectopic beats, pauses or other dysrhythmias observed.
BREED	ECG diagnosis: Normal sinus rhythm with respiratory variation. Frequent isolated VPCs.
Pit Bull	
SEX	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Female	The ECG confirms the arrhythmia appreciated is due to ventricular premature contractions (VPCs). VPCs are generated from abnormal conductive or fibrotic tissue in the ventricles of the heart muscle, and even frequent single VPCs will often cause no clinical signs in dogs. When sustained however, ventricular tachycardia can lead to symptoms such as lethargy, collapse and sudden death.
AGE	VPCs are a very non-specific finding. They can be primary in origin (ie arrhythmic disease such as ARVC or DCM), or develop secondary to significant cardiac or extra-cardiac disease ie due to pain, stress, inflammation, cancer, GI disease, DIC/sepsis, etc. All differentials should be ruled out in a senior dog. The first step would be an echocardiogram to assess cardiac structure and function. Pending results, an abdominal ultrasound and full systemic evaluation is recommended to monitor for any underlying abnormalities.
10 years	
WEIGHT	Unfortunately there is always an elevated risk for collapse and sudden death in any arrhythmic patient, and even on medications this risk unfortunately still persists.
54.4	
INTERPRETED BY	Based strictly upon the amount of arrhythmia present on the available ECG (only single VPCs are identified), anti-arrhythmic therapy is not clearly indicated. That being said, the frequency is concerning, and a holter monitor is recommended as the gold standard to allow monitoring of the rhythm throughout 24 hours of a normal day and help understand the true extent of the abnormality and determine if treatment is indicated. This should be considered especially should the patient develop clinical signs in the future such as syncope.
Maggie Machen Lamy, DVM, DACVIM (Cardiology)	
IMAGING PERFORMED BY	If needed, anesthetic risk is moderately elevated and further evaluation is recommended prior to proceeding. Anesthetic protocol should avoid ketamine, telazol, and/or alpha 2 agonists. Careful monitoring of ECG/blood pressure is highly recommended with intervention as needed (ie sustained tachyarrhythmias).
Travis Cerf, DVM	
HOSPITAL NAME	Fish oil supplementation is recommended for dogs with arrhythmias (500-1000mg of omega 3 and 6 once to twice daily).
Veterinary Center of Hardyston	Monitor at home for collapse, exercise intolerance, and/or lethargy. If a holter monitor is elected, this will dictate whether therapy is needed and follow up protocol.
REFERRING VET	Plan: Consider holter monitor/echo/systemic evaluation as discussed.
Dr. Cerf	A recheck ECG is recommended in 4-6 months, sooner if symptoms of cardiac disease arise (cough, labored breathing, syncope, etc).
INVOICE	
22382	
DATE	
2/6/22	



PATIENT

Patton Zatta

SPECIES

Canine

BREED

Pit Bull

SEX

Female

AGE

10 years

WEIGHT

54.4

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Travis Cerf, DVM

HOSPITAL NAME

Veterinary Center of
Hardyston

REFERRING VET

Dr. Cerf

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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. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

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