



# Orthopedic Foundation for Animals

2300 E Nifong Blvd, Columbia, MO 65201-3806

Phone: (573) 442-0418; Fax: (573)875-5073

www.offa.org, A not-for-profit organization

Registered name: \_\_\_\_\_

Call Name: \_\_\_\_\_ Weight:  kg  lbs  Estimate

Breed: \_\_\_\_\_ Gender: \_\_\_\_\_

Sire Registration #: \_\_\_\_\_ Dam Registration #: \_\_\_\_\_

ID Number (if any):  Tattoo  Microchip

Registration Number:  AKC  Other

Date of Birth: (MMDDYY) \_\_\_\_\_ Date of Exam: (MMDDYY) \_\_\_\_\_

Owner Name: \_\_\_\_\_

Co-Owner Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Owner Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip/postal code: \_\_\_\_\_

E-Mail (use both lines if needed): \_\_\_\_\_

I hereby certify that the animal examined is the animal described on this application, and understand that the results of this exam will be submitted by the examining cardiologist to the database for statistical gathering purposes. I understand that only passing results will be released to the public unless the initials of a registered owner or authorized agent appear in the authorization box below which permits the OFA to release non-passing results to the public.

Signature of owner or authorized agent/representative

I hereby authorize the OFA to release equivocal or abnormal results to the public. (initials) \_\_\_\_\_

Cardiologist Name: \_\_\_\_\_

Phone #: \_\_\_\_\_ OFA Examiner #: \_\_\_\_\_

E-Mail (use both lines if needed): \_\_\_\_\_

Fees and credit card information on back of WHITE sheet.

# Application for Advanced Cardiac Database Holter Addendum



Performed in association with the Orthopedic Foundation for Animals (OFA) and the American College of Veterinary Internal Medicine-Cardiology (ACVIM)

**Holter results are valid for 1 year**

EXAMINATION FINDINGS				
HOLTER SCAN INTERPRETATION				
Holter Service Used _____				
Date of Recording _____				
Total Monitoring Time _____				
Total Analyzed Time _____				
Quality of Holter Recording <input type="checkbox"/> adequate <input type="checkbox"/> non-diagnostic				
Norm QRS Total	Max HR (bpm)	Min HR (bpm)	Mean Rate (bpm)	
VENTRICULAR ECTOPY				
VE Total	% VE	Single VPC	Couplets	Triplets
Total # Runs > 4 VPC	Max # Beats in Runs	VT Max Rate (bpm)	Idioventricular Rhythm	
SUPRAVENTRICULAR ECTOPY				
SVE Total	% SVE	Total # SVT Runs >3 APC	Max # Beats in Runs	
SVT Max Rate (bpm)	A Fib (duration)	A Fib Max Rate (bpm)		
BRADYARRHYTHMIAS				
Longest Pause	Sinus Arrest	AV Block		

HOLTER INTERPRETATION	
<input type="checkbox"/> NORMAL HOLTER	
<input type="checkbox"/> EQUIVOCAL	
Comments: _____	
<input type="checkbox"/> ABNORMAL	
<input type="checkbox"/> Ventricular arrhythmias _____	
<input type="checkbox"/> Atrial arrhythmias _____	
<input type="checkbox"/> Bradyarrhythmias _____	
Comments: _____	
<b>Holter Consistent With:</b>	<input type="checkbox"/> Arrhythmogenic cardiomyopathy (Boxer)
	<input type="checkbox"/> Dilated cardiomyopathy (Doberman)
	<input type="checkbox"/> Atrial fibrillation
	<input type="checkbox"/> Sick sinus syndrome
<input type="checkbox"/> Other _____	
<b>Severity:</b>	<input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
<b>Additional Comments:</b> _____	

I DID verify microchip/tattoo on this dog

I DID NOT verify microchip/tattoo on this dog

I placed the Holter on this dog, analyzed and interpreted results

I only interpreted results on this dog, Holter placement and data analysis performed elsewhere

Signature \_\_\_\_\_ Date \_\_\_\_\_

Diplomate ACVIM (American College of Veterinary Internal Medicine — Cardiology), or Diplomate ECVIM (European College of Veterinary Internal Medicine — Cardiology)

## OFA Advanced Cardiac Clearance Database Fees

*FREE if received within 90 days of an Advanced Cardiac Database Form submitted on the same animal.*

- Animals over 12 months of age ..... \$15.00
- Litter of 3 or more submitted together ..... \$30.00
- Kennel Rate—Minimum of 5 individuals submitted as a group, owned/co-owned by same person. .... \$7.50 ea.
- Submission of non-passing results in the open database:  
NO CHARGE

## Credit Card Payment Information

*Payments can be made by check, money order (U.S. funds drawn on a U.S. bank), cash, Visa, or Mastercard, payable to the Orthopedic Foundation for Animals. To pay by credit card, fill out the following information.*

Visa/Master Card Number (1 digit per cell, no dashes)

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Cardholder name:

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Exp. (MM|YY)

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CVV

## Abbreviations for Holter Form

**A fib:** Atrial fibrillation

**APC:** Atrial premature contraction

**ARVC:** Arrhythmogenic right ventricular cardiomyopathy

**AVB:** Atrio-ventricular block

**HR:** Heart rate

**SVE:** Supraventricular ectopy

**VE:** ventricular ectopy

**VPC:** Ventricular premature contractions

**VT:** Ventricular tachycardia

## Purpose of cardiac health screening in dogs

- To identify dogs free from any cardiac abnormality
- To ascertain the prevalence of heart murmurs, abnormal rhythms or specific heart defects in specific breeds
- To confirm the cause of heart murmurs or abnormal rhythms by further investigation of affected animals
- To collate data for investigation of a possible genetic basis to a specific heart problem in a given breed
- To advise the owner, breeder and dog's veterinarian when an abnormality has been identified and recommendations about any further investigation, if indicated

## Methods of heart testing

### 1. **Auscultation: examination with a stethoscope**

Auscultation allows detection of heart murmurs, the specific timing and localization as well as grading of intensity (grade 0 - 6). The heart rhythm is also assessed during auscultation. Heart murmurs occur with many congenital heart defects and adult onset inherited cardiac diseases such as degenerative mitral valve disease (DMVD). Some common forms of congenital heart disease include subaortic stenosis (SAS), patent ductus arteriosus (PDA), pulmonic stenosis (PS) and tricuspid valve dysplasia (TVD). Abnormal heart rhythms may occur in animals without murmurs in dilated cardiomyopathy (DCM) or arrhythmogenic right ventricular cardiomyopathy (ARVC). It may be difficult for the veterinarian to detect a soft murmur in a noisy room or in a dog that is squirmy. Some murmurs may change intensity at different heart rates, after exercise or excitement.

### 2. **Electrocardiogram (ECG)**

This is always indicated if an abnormal heart rhythm is detected. It is most often used to screen certain breeds of dogs for DCM or ARVC.

### 3. **Echocardiogram (with Doppler)**

Echocardiography allows visualization the heart chambers and valves in real-time. M-mode is used for measurements to be taken and compared with normal values for breed or size of dog. Doppler is required to confirm the diagnosis of a specific type of congenital defect and to identify mildly versus severely affected animals. In some cases, it is difficult to be certain whether a dog has mild disease or an "innocent" murmur.

### 4. **Holter ECG (separate report required)**

This test is indicated in breeds predisposed to DCM or arrhythmogenic right ventricular cardiomyopathy. Affected dogs may display ventricular arrhythmias early in the disease process, when the echocardiogram does not reveal any abnormalities yet. A Holter (24h ECG) allows detection of infrequent, but significant arrhythmias.

**For final clearance a 24 hour Holter is required in Boxers and Doberman Pinschers.**

Adult onset of inherited heart disease can appear at any age of an adult dog or cat. Testing for DCM, ARVC, MVD and HCM is thus only valid for 1 year, after which time retesting is required to screen for onset of new abnormalities.