



RED BANK VETERINARY HOSPITAL

# Veterinary Healthcare Network

EMERGENCY & SPECIALTY CARE

Chief Executive Officer Anthony J. DeCarlo, VMD • Chief of Staff Thomas S. Trotter, VMD

### RBVH Tinton Falls

197 Hance Avenue  
Tinton Falls, NJ 07724  
Telephone 732-747-3636  
Fax 732-747-6562  
www.rbvh.net

### RBVH Cherry Hill

1425 E. Marlton Pike  
Cherry Hill, NJ 08034  
Telephone 856-429-4394  
Fax 856-429-1772  
www.rbvhcherryhill.net

### RBVH Hillsborough

210 Route 206 S.  
Hillsborough, NJ 08844  
Telephone 908-359-3161  
Fax 908-359-6586  
www.rbvhillsborough.net

### RBVH Linwood

535 Maple Avenue  
Linwood, NJ 08221  
Telephone 609-926-5300  
Fax 609-926-5799  
www.rbvmlinwood.net

### RBVH Center for Integrative Veterinary Medicine

210 Newman Springs Road  
Red Bank, NJ 07701  
Telephone 732-747-3383  
Fax 732-747-3385  
www.rbvhpetrehab.net

## Cardiology Certification

Dr Carl Sammarco, BVSc, MRCVS, Diplomate ACVIM (Cardiology)

Exam date: 10/4/2016

Dog: Hudson  
Sex: male  
Breed: Doberman Pinscher  
Owner: Deborah Wedderman  
Date of Birth: 5/14/15

Hudson was examined today by auscultation and echocardiogram. No evidence for congenital or acquired heart disease was detected, in particular, dilated cardiomyopathy

**ECHOCARDIOGRAM** 10/4/2016: KG 37    BSA 1.08  
IVSd: 0.959 cm    LVIDd: 4.5 cm    LVPWd: 0.9 cm    EPSS 0.3 cm  
IVSs: 1.19 cm    LVDs: 3.3 cm    LVPWs: 1.3 cm    %FS: 26 %    Pa: 2.2  
Ao: 2.5 cm    LAD: 3.4 cm    LA:Ao ratio 1.36    LA max: 4.1 cm    LLAD: 4.2 cm

RWT = IVSd+LVPWd/LVIDd = 0.42, LVID long 7.97 cm, Sphericity index 1.77 (Lax/Sax, N > 1.65)

PEP/ET = 42.3/218.3 = 0.19, > 0.4 is abnormal with myocardial failure

Tricuspid peak flow velocity 3.6 m/s, gradient 51.8 mmHg

Acceleration time 85 ms, PAET 235.9 ms, ratio = 0.36 (ratio greater than 0.30 is considered normal)

100% spec for PH if AT < 45 ms +/- or AT:ET < 0.25, 100% spec for Normal if AT > 64 ms +/- or AT:ET > 0.42

Grey zone for predicting: AT < 58 ms (Se 88%, Sp 80%), AT:ET < 0.31 (Se 73% and Sp 87%)

SMOD: right, long axis LVEDV 96 ml, LA LVESV 34 ml, EF% 62.64, EDVi = 84.26, ESVi = 31.48

Left: 4 chmbr LVEDV 91 ml, LA LVESV 44 ml, EF% 51.65, EDVi = 84.26, ESVi = 40.74

SMOD cut-off values, normalized to body surface area (BSA), LVEDV/BSA > 95 mL/m<sup>2</sup> LVESV/BSA > 55 mL/m<sup>2</sup>

**COMMENTS:** Normal heart size and function. No abnormal flows at aortic or pulmonic, valves. Normal structured mitral and tricuspid valves with trivial systolic regurgitation. No effusion.

**SUMMARY:** Normal heart, trivial valve leaks with normal structured valves, normal biological variation.

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Email : carlsammarco@mac.com