



A Quantitative Marker Testing for Cardiac Injury or Damage

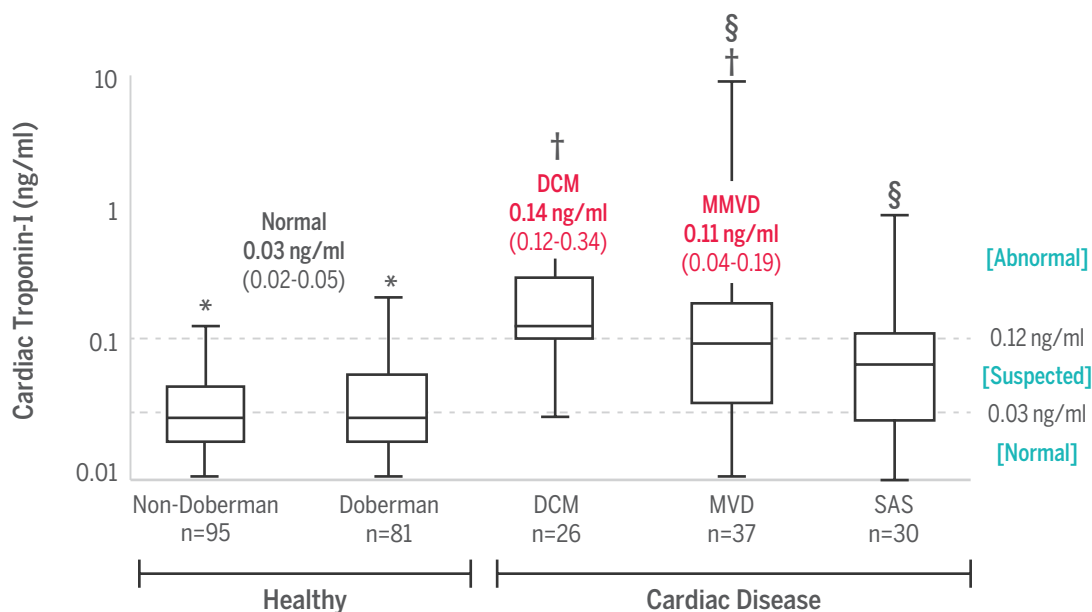
The Vcheck TnI biomarker is an in vitro diagnostic test kit for the in-clinic quantitative measurement of canine Troponin I. The cardiac Troponin I (TnI), is a sensitive and specific circulating marker of cardiac damage in canines. Included in the greater Troponin complex, Troponin I, T, and C, function together as the molecular switch of cardiomyocyte contraction. Cardiac injury leads to the release of cardiac TnI into circulation, where its concentration correlates with the degree of cardiac damage. Heart disease can increase the TnI levels and create ongoing myocardial injury, so frequent monitoring is critical.

Clinical Applications

- Increased TnI indicates rising severity of mitral valve disease (MMVD)
- Detects early phases of dilated cardiomyopathy (DCM)
- Provides prognostic information regardless of the underlying cardiac or noncardiac disease

A Closer Look: TnI

The Vcheck Canine TnI test kit is a fluorescent immunoassay for the quantitative measurement of Canine Troponin I concentration. After cardiac injury, a rise of Troponin complex can be detected within 2-3 hours, and peak concentration is frequently reached in 18-24 hours. The Vcheck TnI test kit checks for this damage quickly and accurately so proper care can be administered.



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Specific Clinical Application

Troponin levels reflect heart muscle injury from cardiac and non-cardiac diseases. TnI measurement is recommended to be included in routine biochemical testing with other traditional exams such as renal and hepatic tests. Measurement of TnI is necessary to discover the involvement of myocardial injury in critically ill patients. Noncardiac critical disease can also affect the heart muscle. Diseases that can increase TnI levels are systemic inflammation, anemia, pancreatitis, cancer, respiratory disease and other varied diseases.

< 0.1 ng/ml	0.1–0.2 ng/ml	> 0.2 ng/ml
Normal: Heart disease cannot be ruled out	Suspected: Possibility of myocardial injury	Abnormal: High possibility of myocardial injury
Measure every 6 months	Consider biological variation or old age in healthy dogs	Consider factors for increasing results (e.g. renal disease)
Presence of myocardial injury irrespective of its cause; Further diagnostics recommended for definitive diagnosis		
Monitor patients every 3-6 months for prognosis		

*Internal Evaluation Data

Specifications

Species	Canine
Sample Type	Serum 100 µl
Measurement	Quantitative
Range	0.1 - 0.2 ng/ml
Testing Time	10 minutes
Storage Condition	1 - 30° C

Simple Testing Procedure



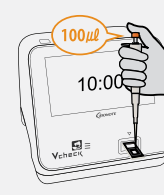
Dilute Sample

Add 100 µl of the sample to the assay diluent tube.



Mix

Use the same pipette to mix the sample with diluent by pipetting 5 - 6 times.



Measure

Add 100 µl of the mixed sample to the sample well of the test device and press [START].

Product Name

Vcheck Canine TnI

Product Number

VCF137DC

Product Type

Device

Packing Unit

5 Tests/Kit



For More Information on
Vcheck V200 or V2400
analyzers visit:
bionote.com
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800-727-5169

LEARN MORE
about the TnI test

