CANINE

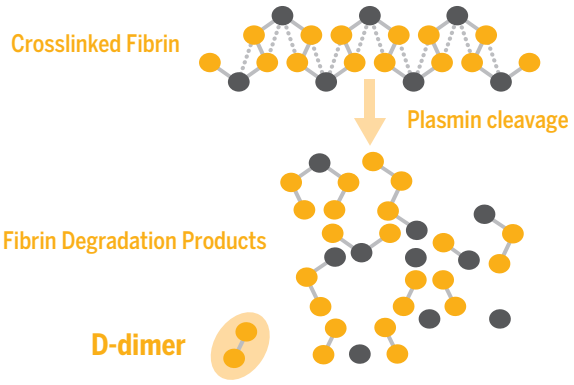
Vcheck

Canine D-dimer

Highly Sensitive Marker for Thromboembolism

What is D-dimer?

Degradation of crosslinked fibrin produces D-dimer. Plasmin is the enzyme responsible for thrombolysis and acts on both fibrinogen and fibrin. Plasmin cleaves crosslinked fibrin resulting in a cleavage product consisting of 2 linked D domains or D-dimer.



When is it done?

- DIC
- Pulmonary Embolism
- Systemic Thrombosis
- Chronic Congestive Heart Failure

Known Risk Factors for Thromboembolism in Canines

- Cancer
- Sepsis
- Pancreatitis
- Vascular diseases (i.e., heartworm)
- Congestive heart failure
- Protein-losing disease
- Immune-mediated disease
- End/Exogenous Corticosteroids

Run D-dimer every time you suspect thromboembolic disease

Clinical Algorithm (Pulmonary Thromboembolism (PTE) in canines)

Clinical Suspicion

↓

D-dimer concentration

↓

Negative → PTE ruled out

Positive →

1. D-dimer > 0.5 µg/ml ?
2. Known disease predilection ?
3. Significant pulmonary hypertension ?
4. Thoracic radiographs

→ Low Clinical Probability
→ Intermediate Clinical Probability
→ High Clinical Probability

J Am Anim Hosp Assoc 2005;41:145-149.

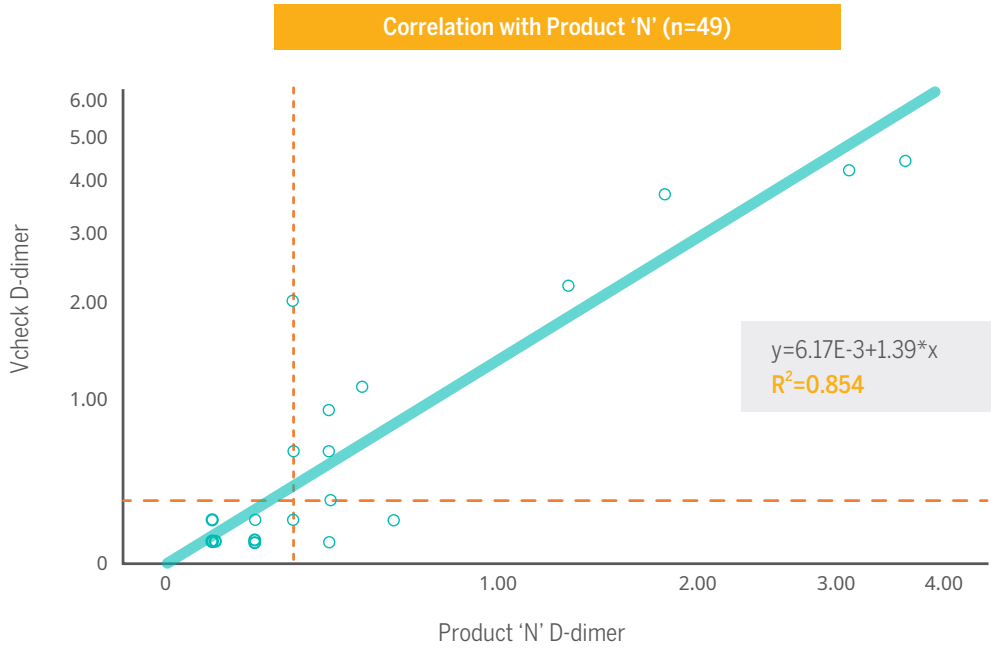
Vcheck D-dimer

Performance

Excellent Clinical Utility

- Stronger Correlation with clinical signs
- High correlation with product 'N' (R^2=0.854)

Researched by Haemaru Small Animal Clinical Research Institute & Referral Animal Hospital

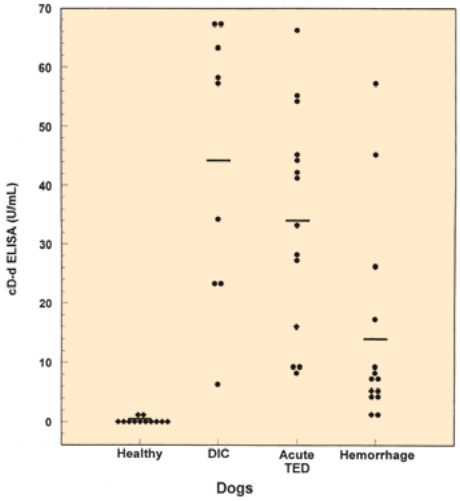


Applications

- A Good Screening Test For
  - DIC (Disseminated intravascular coagulation)
  - Acute Thromboembolic Disease

- Assessment of Pulmonary Thromboembolism
- Monitoring of Antithrombotic therapy
- Prediction of Survival Prognosis after Surgery

AJVR, 64(12), 1562-1569, December 2003



Vcheck D-dimer

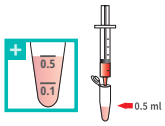
Specifications

Species	Canine
Sample Type	Plasma (Sodium Citrate only) 5µl
Measurement	Quantitative
Range	0.1 - 10 µg/ml
Testing Time	5 minutes
Storage Condition	2 - 8º C

Simple Testing Procedure

Sodium citrate

Use a 50 µl pipette to draw 50 µl of sodium citrate and add it to a 1.5 ml tube.

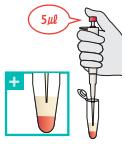


Whole blood

Add 450 µl of whole blood to the line of 0.5 ml.

Centrifuge

Mix the tube gently using a wrist snap making an 8-character shape and centrifuge at 3,000 rpm for 15 min.



Dilute sample

Use a 5 µl pipette to draw 5 µl of plasma and add it to the assay diluent tube.

Mix

Use a 100 µl pipette to mix the sample with diluent by pipetting 5 - 6 times.

Measure

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

Reference Ranges

< 0.3 µg/ml	≥ 0.3 µg/ml
Normal	Abnormal TED/DIC* probable

* TED: Thromboembolic disease, DIC: Disseminated intravascular coagulation

Ordering Information

Product Name	Product Number	Product Type	Packing Unit
Vcheck D-dimer	VCF107DD	Device	5 Tests/Kit

Vcheck from BIONOTE

11-24

For More Information:
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