



# VET EXPERT

BASED ON EVIDENCE

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# HEART DISEASE IN DOGS

- **Almost completely different when compared to humans**
  - Chronic degenerative mitral valve disease (myxomatous mitral valve disease, endocardiosis, or mitral valve disease (MVD\_ - over 70% of cases
  - Dachshund, Cavalier King Charles Spaniel, Pekingese, Chihuahua, Toy and miniature Poodle, and Maltese
  - Different cardiomyopathies
  - German shepherd and other large breeds

## CardioVet

Heart failure in dogs

- **Indications:**

For dogs with heart failure caused by both dilated cardiomyopathy or mitral valve insufficiency.

- **Ingredients in 1 tablet:**

L-carnitine – 400 mg  
Taurine – 150 mg  
Coenzyme Q10 – 10 mg  
Vitamin E – 100 IU



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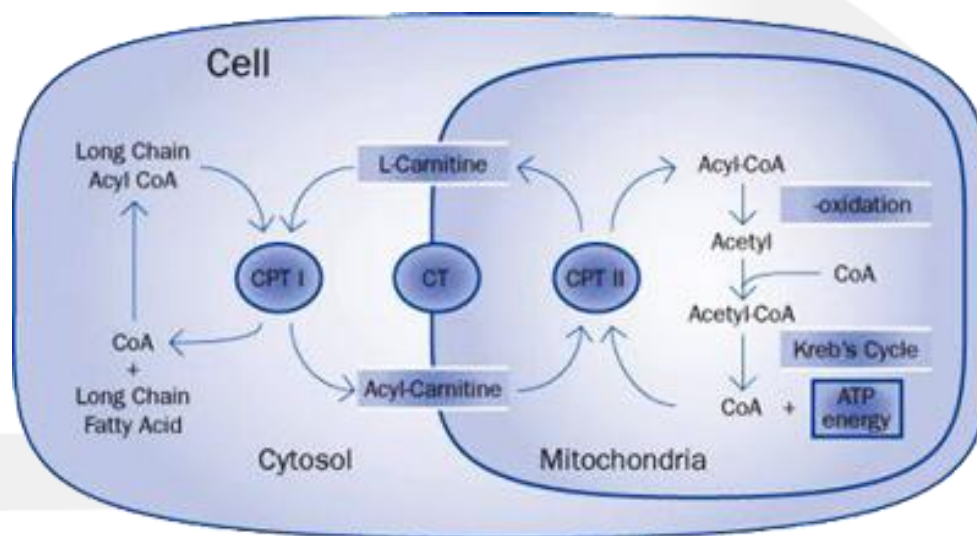
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# CardioVet – Why works so good?

## L-carnitine

- Produced from lysine and methionine. Its main function is long-chain fatty acids metabolism and energy production. Cardiac muscle contains 95% of whole body L-carnitine what clearly shows its involvement in the production energy necessary for constant heart work.



# CardioVet – Why works so good?

## L-carnitine

- In a recent multi-center trial, L-carnitine treatment initiated early after acute myocardial infarction and continued for 12 months was found to attenuate left ventricular dilation and result in smaller left ventricular volumes.
- L-carnitine deficiency in dogs is correlated with dilated cardiomyopathy development and its supplementation can preserve heart cells from fatty acid retention within cardiac muscle cells.

# CardioVet – Why works so good?

## Taurine

- **Taurine** plays a key role in heart muscle metabolism by regulating calcium ions level, osmotic potential and by neutralizing free radicals.
- Taurine modulates voltage-dependent calcium channels, sodium-calcium exchange, and sodium-aurine cotransport. The net effect is to protect heart muscle cells from calcium overload, on the one hand, and low calcium states on the other
- Taurine posses also some antiarrythmic properties, it modulates heart beats force in relation to the level calcium ions and preserves heart cells integrity. Its deficiency could be a one of the direct causes of dilated cardiomyopathy development in dogs.

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# CardioVet – Why works so good?

- **Coenzyme Q10 (ubiquinone)** is essential for energy production within the body and plays a role of natural antioxidant in mitochondria where due to intensive production of energy for contracting cardiac muscle the level of free radicals is extremely high.
- **Vitamin E** plays a role of antioxidant and preserves from the increased contractility of the vascular endothelium within heart vessels. It limits platelets adhesion and aggregation within coronary vessels and enables constant blood flow through these vessels.



# CardioVet

## COMPREHENSIVE ACTION

- supports fat oxidation and energy production
- regulates the heart rate
- regulates the cardiac cycle
- regulates the ion balance
- eliminates free radicals
- supports blood flow through the coronary arteries of the heart
- limits the formation of blood clots in the coronary arteries of the heart

## EASY DOSING

The formulation is in the form of a very tasty tablet for easier dosing.

## OPTIMAL DOSAGE

Dogs up to 15 kg body weight – 1 tablet twice a day

Dogs over 15 kg body weight – 2 tablets twice a day

For dogs with the body weight over 40 kg, the veterinarian may decide to increase the dose.

Package contains 90 tablets.

## HIGHEST QUALITY

The product is intended for long term use. All VetExpert formulations are produced in factories that have the GMP (Good Manufacturing Practice) certification. This is the highest quality standard in pharmacy. The composition of formulations was developed in cooperation with the most prominent Polish and international experts in the field of dog and cat nutrition.

## AFFORDABLE PRICE

CardioVet, like all VetExpert formulations, is prescribed and sold only through veterinarians. Product has extremely reasonable and competitive price, at the highest quality and efficiency.



## DOG'S HEART



## MULTI-EFFECT ADVANCED FORMULATION

### 1 L-CARNITINE

#### „Energy production”

- supports production of energy from fatty acids
- protects against fat deposits in heart muscle cells
- approximately 95% of the body's total carnitine pool resides in heart muscle

### 2 Taurine

#### „Regulation of Calcium Concentration of the heart rate”

- regulates the level of calcium ions and the osmotic potential
- neutralizes free radicals
- has anti-arrhythmic effects
- regulates heart beats depending on the amount of calcium ions

### 3 Coenzyme Q10

#### „Antioxidant”

- supports natural mechanisms of antioxidant protection
- necessary for the production of energy in the myocardium

### 4 Vitamin E

#### „Promotes coronary circulation”

- protects against excessive contraction of endothelial cells of the blood vessels in the heart
- reduces the adhesion and aggregation of platelets in coronary vessels
- ensures constant blood flow through the vessels that nourish the heart
- supports natural mechanisms of antioxidant protection

#### Literature

1. Poot P, Bloume V, Elliott D (ed) Encyclopedia of Canine Clinical Nutrition, Anims SAS, 2006.
2. Harker-Murray AK, Tajik AJ, Inakura FI (ed). The role of the coenzyme Q10 in the pathophysiology and therapy of experimental congestive heart failure in the dog. J Geriatr Palliat Care 2000; 6: 233-242.
3. Kramer GA, Kittelson MD, Fox PR. Plasma taurine concentrations in normal dogs and in dogs with heart failure. J Vet Intern Med. 1995; 9:269-268

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