Nutritional Supplements for Cardiac Patients

**NUTRITION FOR CARDIAC PATIENTS**

- Diet can slow disease progression, minimize medication requirements, and in some cases, cure the underlying disease.
- Individualize the diet of your patient based on type and extent of heart disease, other health concerns, and what the patient will eat.
- Change diet gradually (over approximately one month) to avoid GI upset.
- When starting medications, avoid changes to the diet for the first two weeks and until the pet is eating well.
- Consultations with a veterinary nutritionist are available with the help of your primary veterinarian at: [http://vetnutrition.tufts.edu](http://vetnutrition.tufts.edu).

**SODIUM AND DIETS**

Salt (sodium chloride) restriction is important to decrease the retention of water and help control blood pressure.

<table>
<thead>
<tr>
<th>Heart Disease</th>
<th>Category</th>
<th>Allowable sodium as a % of DRY matter</th>
<th>mg of Sodium per 100 kCal of food</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asymptomatic patient (i.e., no active heart failure, but at risk)</td>
<td>Mild sodium restriction</td>
<td>0.3-0.4</td>
<td>80-100</td>
</tr>
<tr>
<td>Symptomatic patient (i.e., history of heart failure)</td>
<td>Moderate sodium restriction</td>
<td>0.2-0.3</td>
<td>50-80</td>
</tr>
<tr>
<td>Not recommended</td>
<td>Marked sodium restriction</td>
<td>&lt; 0.2</td>
<td></td>
</tr>
</tbody>
</table>

For information about restricted nutrients and sodium content of various foods and treats, please visit: [http://vetmed.tufts.edu/heartsmart/diet](http://vetmed.tufts.edu/heartsmart/diet).

**OMEGA-3 FATTY ACIDS (FISH OILS)**

- Dogs with heart failure have been shown to be deficient in omega-3 fatty acids.
- Commercial fish oil supplements vary widely in the amount of EPA and DHA they contain.
  - A common formulation is a one gram capsule containing 180 mg EPA and 120 mg DHA. At this concentration, the recommended dose is one capsule per 10 lbs. of body weight.
  - Avoid cod liver oil, flax, flaxseed oil, and products containing added vitamins A and D (vitamin E should be included as an antioxidant).
- Beneficial cardiovascular effects shown in humans and dogs:
  - Improved energy metabolism in heart muscle cells
  - Anti-inflammatory (heart failure is known to be an inflammatory disease)
  - Reduced potential for arrhythmias and sudden death
  - Combats weight loss related to advanced heart disease

**TAURINE**

- Taurine is an amino acid found in high concentrations in the heart and is necessary for normal heart function.
- Dogs can develop taurine-deficient heart disease and may respond to supplementation.
- Some boutique, grain-free, or exotic ingredient diets have been shown to cause taurine deficiency; the FDA is investigating the specific problem with these diets.

**COENZYME Q10**

- Co-Q10 is an antioxidant and supports energy metabolism.
- There are no veterinary studies to support or refute the use of Co-Q10 in dogs and cats.

**OTHER SUPPLEMENTS**

There are many nutritional supplements with claims of cardiovascular benefits. While some of these benefits may be true, these natural substances may interact with the medications prescribed by your veterinarian. Often these natural or herbal therapies have properties that alter blood pressure, heart rate, or fluid volume so please use them with caution after consultation with CVCA and your veterinarian.
Why CVCA

🌟 Largest Practice of Board Certified Veterinary Cardiologists:
- 3-5 years of cardiac specific training
- 2 years of extensive examinations
- Diplomates of the ACVIM within College of Cardiology (www.acvim.org)

🌟 Partnership for Optimal Outcome and Care: Patients with congestive heart failure live 75% longer when co-managed by a board certified veterinary cardiologist and primary care veterinarian.

🌟 24/7 Availability by Phone: Our doctors are available by phone 24 hours a day, 7 days a week to emergency and primary care veterinarians for assistance with patient care.

🌟 Collaboration with Primary Care Veterinarian: CVCA is committed to ongoing communication with your veterinarian to ensure the best patient care and service.

🌟 Availability for Same Day Urgent Visits

🌟 Exceptional, Compassionate Service: Over 99% of our clients would recommend us to a friend or family member.

🌟 Flexibility in Payment: Options include CareCredit, interest free payment plans, all major credit cards, checks and cash.

🌟 Exceptional Value: Initial consultations include:
- Blood pressure
- Echocardiogram
- Time for questions and discussion
- Followup communication
- Doctor on call 24/7 for emergency phone support to veterinarians
- Full and accurate cardiac workup offers your pet the best chance to minimize ongoing and unexpected veterinary costs

🌟 Diagnostics and Examinations: Owners accompany pet for echocardiogram so cardiologist can:
- Discuss exam in detail
- Provide immediate diagnosis
- Ensure accuracy in imaging and measurements
- Provide ample time and opportunity to discuss treatment options

🌟 Benefits of Seeing a Board Certified Veterinary Cardiologist vs. Telemedicine:
- Echocardiogram and examination performed in person by board certified veterinary cardiologist
- Ensures correct technique and interpretation for the right diagnosis and treatment recommendations
- Complete cardiac physical, review and interpretation of medical history including radiographs and lab work

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