



PAW HEALTH NETWORK, INC.

CONGESTIVE HEART FAILURE

ABOUT THE DISEASE

In healthy animals, a normal heart distributes blood throughout the entire body. Heart failure is present when the pumping action of the heart is no longer effective. In patients with **congestive heart failure (CHF)** due to heart disease, fluid leaks into the lung tissue (pulmonary edema) or into the chest or abdomen. Once fluid enters the lungs, the following symptoms may occur: fast or labored breathing, coughing in dogs, exercise intolerance, and/or weakness.

Heart diseases that are more common include heart valve disease, weakening or thickening of the heart muscle, heartworm disease, and fluid surrounding the heart (pericardial disease).

OBTAINING A DIAGNOSIS

An annual veterinary examination will help identify physical abnormalities, such as a heart murmur, an abnormal/irregular heart rhythm (arrhythmia), breathing changes, lung sounds, and/or audible fluid in the lungs. Unfortunately, only 25% of feline patients with heart disease have an audible heart murmur.

An ultrasound of the heart (called echocardiogram) is the preferred choice for diagnosing heart disease.

X-rays (radiographs) are a basic tool for diagnosing heart disease, but are better for determining fluid on the lungs.

An enzymatic test (proBNP) will help confirm the presence of heart disease, but will not necessarily determine severity.

Complete blood work and urine testing will provide overall health status to help determine which medications will be appropriate.

TREATMENT

Treatment depends on the cause, the stage of disease, and each patient's health status. In advanced cases, patients may require hospitalization, oxygen therapy, and/or injectable medications in an intensive care setting.

Stable patients and/or those requiring chronic management need a combination of the following drugs:

- **Diuretics** – (furosemide/spironolactone) utilize the kidneys to get rid of excess water into the urine to remove retained fluid out of the lungs. Many patients drink and urinate more often while taking a diuretic.
- **ACE Inhibitors** – (enalapril/benazapril) help the kidneys get rid of excess water, as well as reduce blood pressure so the heart can pump more effectively.
- **Inotropes** – (pimobendan) help increase the strength of the heartbeat and opens the blood vessels.

TIPS FOR SUCCESS

- Give medications as prescribed and do not alter the patient's medications without consulting with a veterinarian.
 - If concerned about potential side effects, consult with a veterinarian before abruptly stopping medications.
- Do not underestimate the impact of heart failure.
 - Even if patients appear to have returned to normal with treatment, most heart disease worsens with time.
 - Many patients require adjustments in medications.
 - Consult with a veterinarian about activity level to identify at-risk activity that should be avoided.
- Once a heart problem has advanced to the point of causing **CHF**, the long-term survival is guarded.
 - **CHF** is always serious and frequently compromises life expectancy.
 - With treatment, the goal is to extend comfort and quality of life.