

# Chronic Kidney Disease

## *in your senior cat*



electrolyte balance. In most cases of chronic renal failure, the kidneys simply “wear out” as part of the aging process and are no longer able to efficiently filter waste products from the blood. Fortunately, most animals do not show signs of kidney failure until about 70 to 75% of kidney function has been lost. At this point, a vicious cycle develops: The kidneys become less able to excrete the natural body toxins and less able to retain water, producing large quantities of very dilute urine and building up toxins within the bloodstream. In response to the increased fluid loss in the urine, the cat drinks more and more water.

Two of the earliest and most easily recognized clinical signs of chronic kidney failure are increased thirst, or *polydipsia* and increased urination, or *polyuria*. Other signs include the need to urinate at night, or *nocturia*, weight loss, vomiting, loss of appetite, weakness, poor hair coat, pale gums, diarrhea, blood in vomit or black, tarry stool, bad breath, oral ulcers, and behavior changes. Symptoms tend to worsen as the disease progresses.

Most of these symptoms could also be signs of other diseases commonly found in older cats. Therefore, the diagnosis of chronic kidney failure requires both:

**Blood tests** to determine the levels of two waste products, urea and creatinine, which are normally excreted in the urine; elevated concentrations suggest chronic kidney failure; and

**Urinalysis** to measure your cat’s urine specific gravity; dilute, poorly concentrated urine helps to confirm the diagnosis.

**C**hronic kidney disease, also known as **chronic renal failure**, is one of the most common age-related conditions seen in senior cats. Unlike *acute* kidney failure, which comes on suddenly and is usually caused by poisoning or ingestion of toxic substances, such as antifreeze, or inadequate blood flow to the kidneys, *chronic* kidney failure is a slow, progressive disease in which kidney function declines unnoticed over months or even years before signs appear. In most cases, the initiating event is unknown. Chronic kidney disease occurs very frequently; cat may show early signs of the disease as they approach 7 years of age or older.

**The damage to the kidneys is irreversible, but supportive treatment can improve your cat’s quality of life and slow down the progression of the disease.**

In healthy cats, the kidneys act to filter and excrete the body’s toxic waste products. The kidneys concentrate and eliminate waste products in urine and return water and salts to the body to maintain normal hydration and

*Page 1 of 2*

# Chronic Kidney Disease

## *in your senior cat*

**With management, many cats can live months or years after a diagnosis of kidney failure, but others may not respond as well to therapy.**

In some cases, the pet will initially need to be hospitalized to undergo *diuresis*, a procedure during which large quantities of intravenous fluids are administered over 2 to 5 days to flush the toxins from the blood stream in order to get the cat feeling better. If that is successful, chronic therapy focuses on maintaining water balance and controlling complications such as high blood pressure (hypertension), anemia, blood electrolyte values, and vomiting and diarrhea.

**Diet is a key element in the treatment of chronic kidney failure.**

Your veterinarian will recommend an appropriate prescription diet with restricted protein and low phosphate content. Adequate water intake is also essential. You'll need to monitor the amount of food and water your cat consumes each day.

Many patients benefit from the administration of fluids under the skin. Subcutaneous (SQ) fluids dramatically increase daily water consumption and help to keep the kidneys functioning as well as possible. Your clinic's veterinary technician will teach you how to administer SQ fluids to your cat. Although it sounds difficult, most owners find the technique easy to perform, and most cats will tolerate it well.

Hypertension is a common and dangerous complication of chronic kidney failure. Blood pressure should be monitored in all cats with kidney failure to help prevent further damage to the kidneys. Left untreated, high blood pressure speeds up the progression of the kidney failure and can also damage the retinas, resulting in sudden blindness. Medications may be necessary to maintain normal blood pressure as well as other complications.

While kidney transplants and dialysis treatments can be performed in cats, these procedures may not be practical, readily available, or affordable options.

**Treatment of any chronic disease is an ongoing process that requires working closely as a team with your veterinarian and clinic staff.**

You are a key part of your cat's successful treatment of kidney failure. Your reward for carefully following your veterinarian's instructions on diet, medications, and supportive home care will be improved quality of life, and possibly even a few extra golden years for your faithful feline companion.

