

# THE LATEST BREAKTHROUGH: LOW-DOSE RADIATION FOR CHRONIC INFLAMMATORY CONDITIONS



## BACKGROUND

Researchers have made promising strides in treating benign inflammatory conditions like feline cystitis and osteoarthritis with low-dose radiation. This new treatment offers renewed hope for benign inflammatory conditions where other treatments have fallen short.

A recent study at North Carolina State University found that cats treated with low-dose radiation saw significant relief from cystitis-related symptoms, with most never having another episode post-treatment<sup>1</sup>. And similar success has been found in Europe for osteoarthritis patients<sup>2</sup>. This growing body of research suggests low-dose radiation's impact on the immune system can benefit both conditions, bringing life-changing relief within days of treatment.

## RADIATION THERAPY FOR CATS WITH FELINE IDIOPATHIC CYSTITIS

Feline cystitis is a painful inflammatory bladder condition affecting thousands of cats each year, leading to discomfort, frequent urination and sometimes inappropriate urination. Traditional treatments have had mixed results and include antibiotics or perineal urethrostomy (PU) surgery, but radiation therapy now offers a more durable and effective alternative – particularly for cats who suffer chronically from cystitis.

## RADIATION THERAPY FOR OSTEOARTHRITIS IN DOGS AND CATS

Osteoarthritis affects about 25% of canines<sup>3</sup> and is most commonly treated with medications. Radiation therapy now offers an alternative, low-risk treatment option for pet patients who continue to struggle with pain and discomfort as their osteoarthritis worsens over time.

## RADIATION THERAPY FOR ADDITIONAL CHRONIC CONDITIONS

The therapeutic benefits of low-dose radiation may extend beyond feline cystitis and osteoarthritis, showing promise for other chronic inflammatory diseases such as inflammatory rhinitis and stomatitis.

## OVER 10,000 PET PATIENTS TREATED IN THESE CONVENIENT LOCATIONS

Chicago, IL	Pittsburgh, PA
Clifton, NJ	San Antonio, TX
Dallas, TX	San Jose, CA
Phoenix, AZ	Seattle, WA

1. <https://news.cvm.ncsu.edu/study-cystitis-remedy-so-effective-that-nc-state-ready-to-offer-treatment-to-cats/>  
2. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9282549/>  
3. <https://www.acvs.org/small-animal/osteoarthritis-in-dogs/>

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## RADIATION THERAPY FOR ADDITIONAL CHRONIC CONDITIONS (CONTINUED)

These conditions are characterized by the activation of immune cells in the local environment and may similarly benefit from the targeted and neutralizing action of low-dose radiation therapy (such as synovium of the joint).

Data on the use of low-dose radiation specifically for the treatment of rhinitis and stomatitis is still in the early stages. However, the underlying similarities in pathology and other conditions successfully treated with radiation therapy provide a promising foundation for future research and application. This approach is particularly compelling given the extremely well-tolerated nature of low-dose radiation, which presents minimal toxicity and thus very small risks compared to the potential upside/benefits for patients suffering from these chronic conditions.

## TREATMENT PROCESS FOR NON-CANCEROUS INFLAMMATORY CONDITIONS

Whether it's treatment for feline cystitis or osteoarthritis, our treatment process for chronic inflammatory conditions is similar. Pet patients will undergo anesthesia, followed by a single dose of radiation at a level far below that which is used to treat cancer. With such a small dose of radiation, negative side effects are not expected and results typically last around one year. If symptoms do reoccur, the low-dose radiation can be safely repeated.

### DO YOU HAVE A PATIENT SUFFERING FROM A CHRONIC INFLAMMATORY CONDITION?

#### Veterinarians: Get In Touch Today



Consultations with our expert veterinary staff are complimentary. Get in touch by phone or email now.



Call 833-PET-HERO (833-738-4376) to get started.



[PetCure.PetAdvocate@ThrivePet.com](mailto:PetCure.PetAdvocate@ThrivePet.com)

### TREATMENT CENTERS IN CONVENIENT LOCATIONS ACROSS THE U.S.

*Pet owners may schedule an in-person consultation or telehealth visit depending on their location and preference. PetCure Oncology's physical locations:*



**NOW TREATING CHRONIC INFLAMMATORY CONDITIONS INCLUDING:  
FELINE IDIOPATHIC CYSTITIS | OSTEOARTHRITIS | RHINITIS**