

INTERSTITIAL CYSTITIS

Having developed 12 Hr. NDV induced serum which seemed to be very effective in selected disease I had decided to try as many conditions with unknown causes as I could. One of these was INTERSTITIAL CYSTITIS. This condition occurs in the Feline variously called FUS, FLUTD, FIC, luts. Take your pick. Many people have come up with what was considered to be a cause but none of these fit the criterion of a clinical Vet in the diagnosis and successful treatment of this condition.

In the feline it causes a very irritating bladder condition with petechiation of the bladder transitional wall and a thickening of the bladder muscles. Heavy bleeding into the urine is a primary sign of this condition. After eliminating all other causes a diagnosis of FIC could be suggested. The advent of superior Ultra sound made the diagnosis and separation of the various hemorrhagic diseases of the bladder in the feline much easier. These include Transitional cell carcinoma, Uroliths of many types, Once a fox tail was seen, Persistent urachus, Polypoid cystitis.

If treated in the classical way, it takes a good two weeks to come under control and that is not guaranteed. Also many of these animals come back with a return of the problem. Some few unfortunate individuals have their bladders become thickened and scarred so that they do not function any more. Others go on to get stones and sabulous secretions which plug up the urethras in male cats causing severe obstructive problems. Question, are FIC and urethral plugs related problems in the feline.

In the dog I was only privileged to see about 6 cases in my career. Half of those were before the development of 12 Hr NDV induced serum. Of those ALL expired. After finding a way to help the feline I tried the same technique in the dog and with some surprise found that this procedure worked quite well and quickly as it does in the cat. See below for the exposure of a CIC case that I had the chance to photograph. treatment is listed below.

So, now the question is what is the cause. I can only surmise. Many theories have been proposed. So presumptuous of me to take a crack at it. Because of the way that 12 Hr NDV serum and or NDV virus vaccine works I have to assume (ass-u-me) that this is a virus. Many years ago in the feline a slow growing Herpes virus was found. No way to treat so the thought was dropped. I am here resurrecting it. For two reasons. One is that the NDV affects this problem as it does several viral diseases. And two it occurs in the dog who has a severe problem with the Canine Herpes Virus. See see below for FIC and CIC.

Dr. Buffington's theory of boredom I believe is no use whatever. Is in no observable way of any use in the treating of this condition.

As an aside it has come to my attention that this problem also occurs in the human. might these two species work as experimental model animals for the treatment of this disease in man.

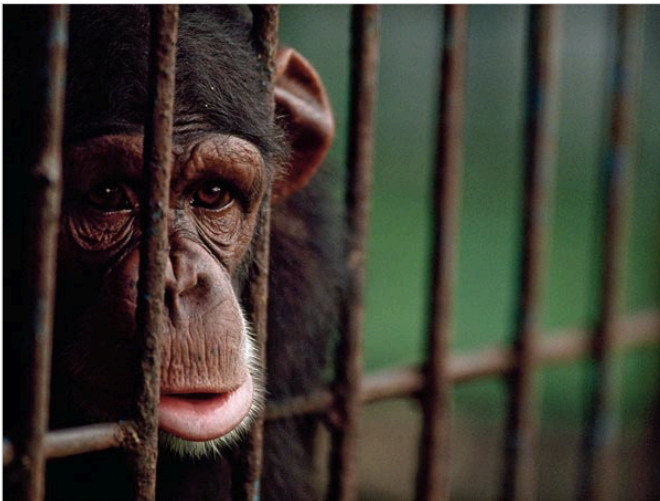
For more information on the human Interstitial cystitis go to

Google -- human interstitial cystitis

The Physicians do not know any more about the cause than Vets do !
treatment is ameliorative and cause is unknown. Maybe clinicians should try the above technique for a cure.

Do Animals Get Depressed?

Primates, rodents may show signs of sadness, study suggests.



Chimpanzees' facial expressions can communicate sadness.

If boredom were the cause of Interstitial cystitis then why is it so rare in Zoo's, pounds, prisons and schools

A W Sears, DVM

This is my treatment for (FUS, Flutd, Interstitial Cystitis) hemorrhagic bladder inflammation in cats. Since the cause is unknown this treatment was developed by A. W. Sears, DVM in clinical practice for the control of the symptoms of this disease.

Newcastle's disease virus is the source of the treatment. It causes an initiation of IMMUNE FACTORS in individual mammalian species especially, the feline. How and why it is working is conjecture on my part. Is it antiviral? Is it anti-inflammatory? Is it maturation of stem cells? This part is unknown and will be left to future academicians to explore. Initially this material was used in the production of cellular interferon. There are many other IMMUNE FACTORS produced by this material. The functions of which can only be surmised at this time.

Newcastle's disease virus 1000 units of La Sota strain suspended in about 6 cc of diluent is the initiating material. Inducer._The basis of this treatment. (This material cannot be bought directly from the company. It must be purchased from an agricultural store.) or (Jeffers livestock -- 1 800 533 3377)

FELINE TREATMENT FOR FUS,FIC,FLUTD

Newcastle's disease virus as 0.3 cc IV
(not serum)
Procaine Penicillin be given IM as ½ cc.
½ cc of Prednisone (about 5 mg) IM.

All felines presented with the obvious signs of FUS be investigated for other causes.

Bladder infection, UA, Culture.

X-ray or Ultrasound for stones or cancers, poly poid cystitis or foreign bodies. (Once saw a fox tail in the bladder)

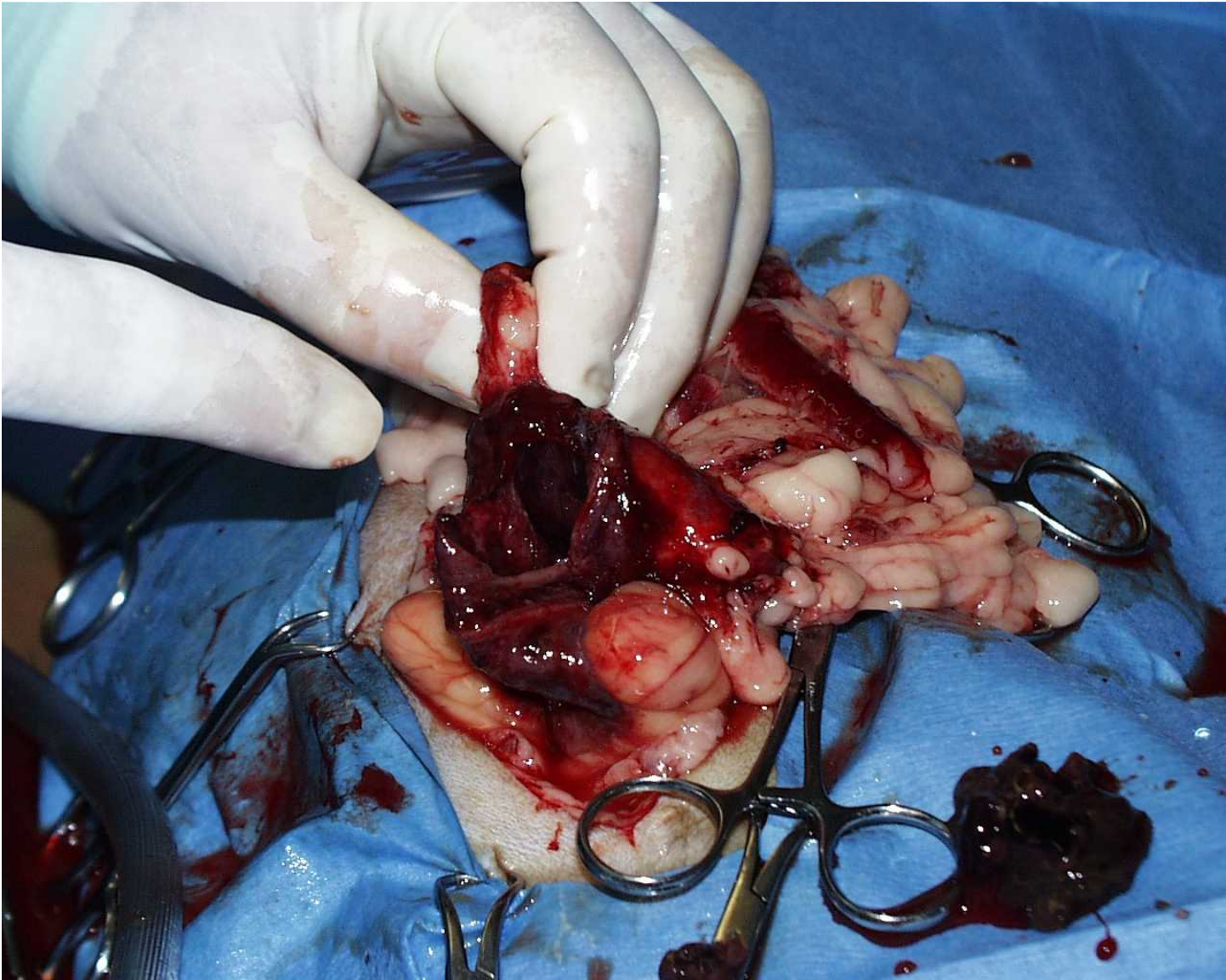
Any kidney problems that might be found and corrected.

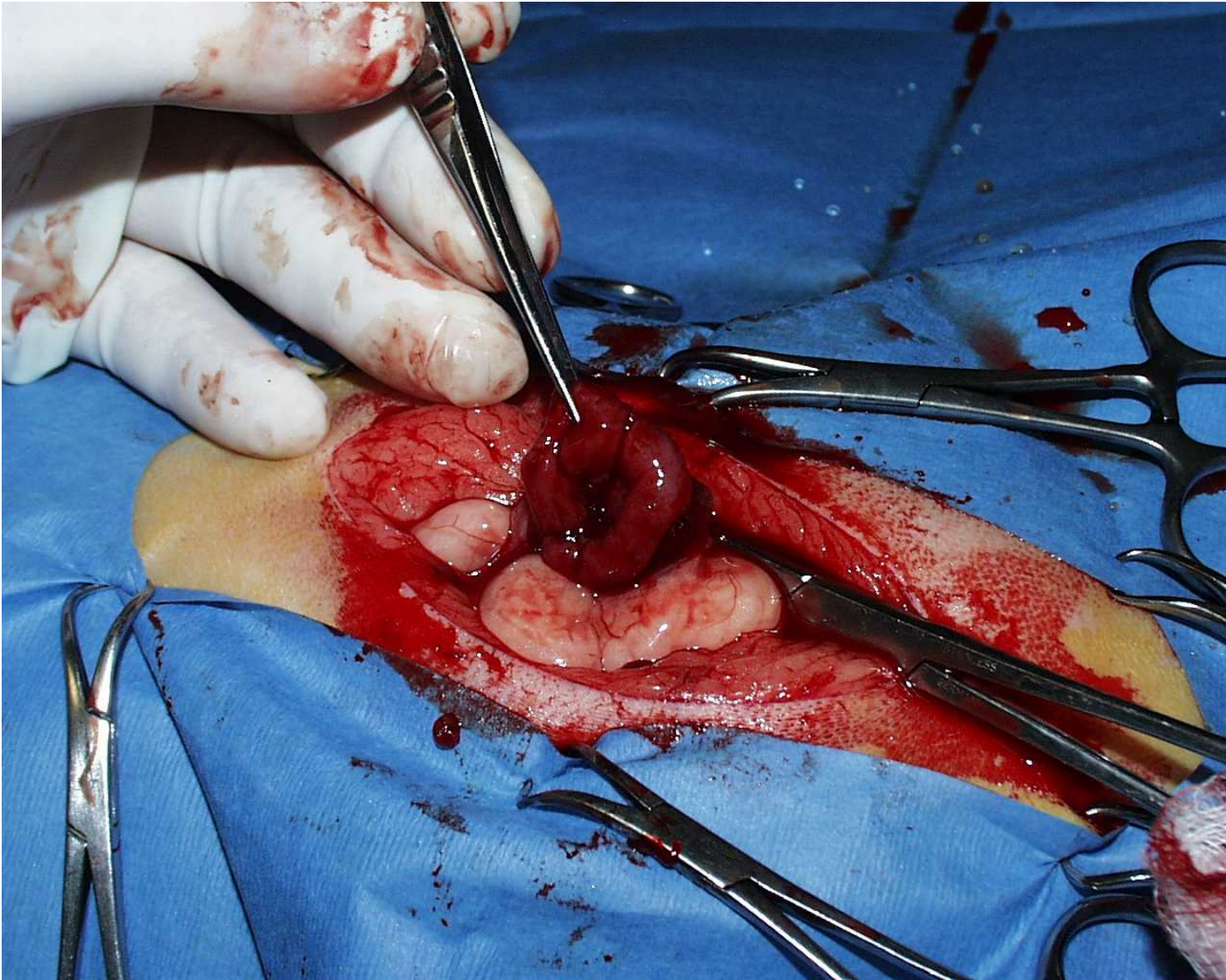
Diagnosis by exclusion, cystoscopy, or biopsy is FUS.

Following treatment, results can be expected within 24 hr period of time. In rare cases a second round of treatments may take place in 12 – 24 hrs. This is rarely needed.

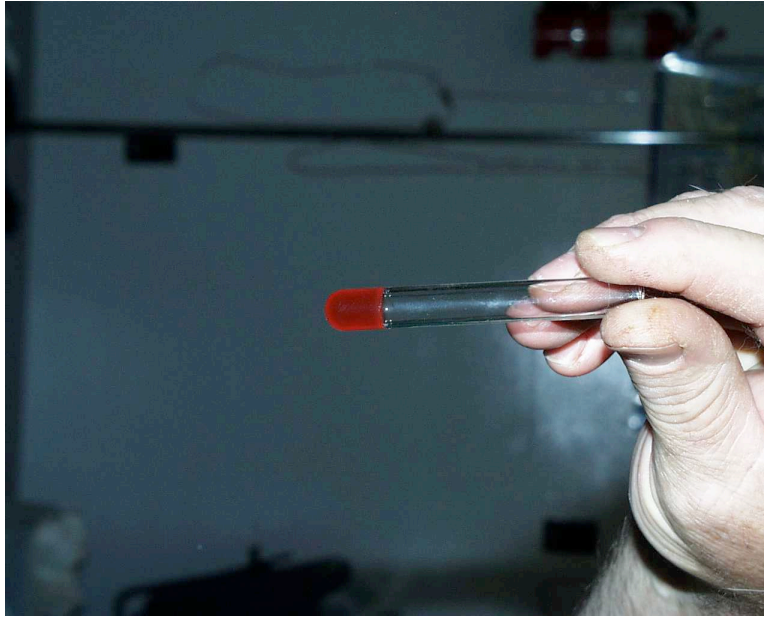
Once urine has cleared treatment may continue as indicated in the literature. I.E. S/D-C/D food(see below), fluids, K-citrate (a pinch in food daily). Especially if small sand like stones are present. Good luck and happy treating. Please report back on any results you have good or bad. E-mail address (allona@me.com) Please indicate FUS response.

A. W. Sears, DVM





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Pre Rx Urine



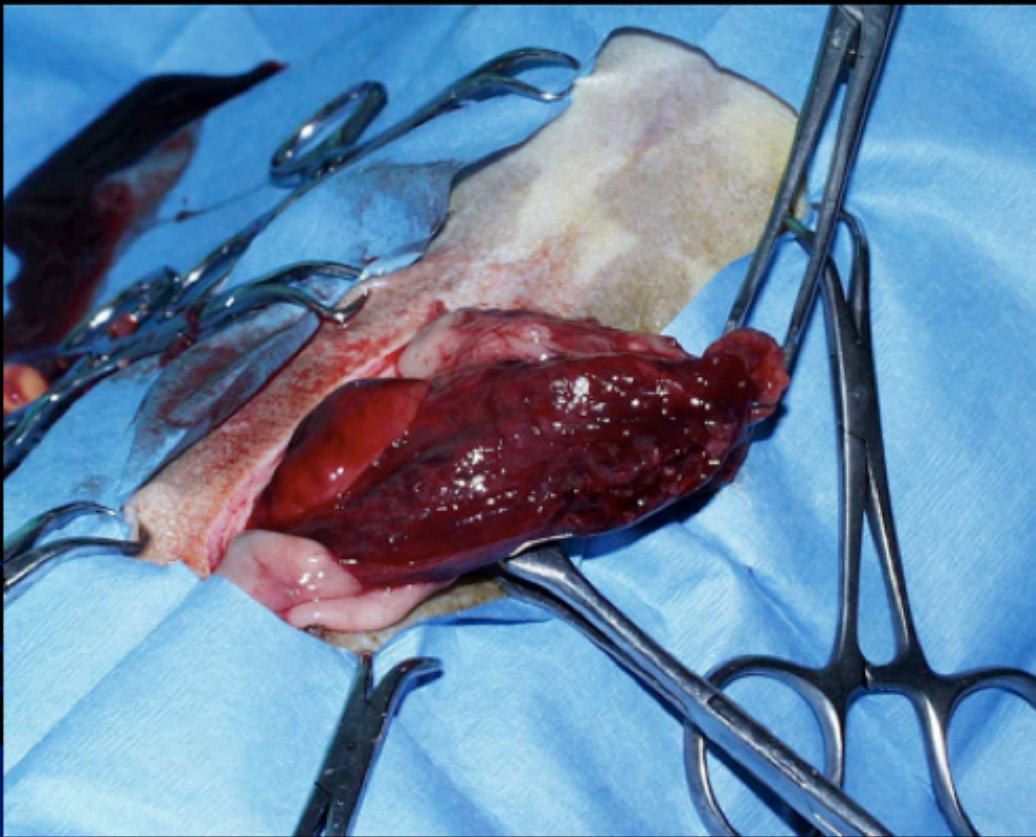
Post Rx urine. 24 hours after treatment. I know go figure. But, give it a try. All the other treatments and suggested causes seem to be in limbo. Even more interesting is that this condition occurs in the canine and in the human. Techniques works in the dog also see below, never got a chance to treat a human. Doc Sears

A W Sears, DVM

Other lesions not described in the Vet literature as a POSSIBLE problem of Herpes. One of the most severe is Canine interstitial cystitis. This disease is easy to identify with a urinalysis and a good ultrasound machine. Biopsy also works. Once diagnosed treatment is easy. Untreated or palliative treatment in my hands led to fatality.

Photo of exposed bladder of a dog with Interstitial Cystitis.

Interstitial Cystitis Herpes



A W Sears, DVM

One of the diseases that responds to NDV. This was found after many attempts to find cures for diseases and problems that at the time had no solutions or causation and were simply treated palliatively. This treatment must be used as shown in the protocol to work properly. Any of the ingredients left out will cause this treatment to fail. Recovery is very surprise-inly rapid. (see feline for treatment of FUS)

TREATMENT FOR CANINE INTERSTITIAL

canine interstitial cystitis

(CIC)

ALL OF THE DRUGS MUST BE USED AT THE SAME TIME

1 - 2 CC NDV VACCINE IV (DEPENDING ON SIZE OF DOG)
1 CC PENICILLIN G SUB Q
1/2 - 1 CC PREDNISONE SUB Q (ABOUT 10 MG)
REPEAT IN 24 HOURS
CONDITION CLEARS QUICKLY

(STRONGLY SUSPECT A HERPES VIRUS AS CAUSE OF THIS
CONDITION. HOWEVER, NEVER PROVEN. MIGHT LOOK INTO
POLYOMA VIRUS BK AS A POSSIBLE CAUSE)

(SEE TREATMENT OF FELINE INTERSTITIAL CYSTITIS BELOW)

A W Sears, DVM

CLINICIAN'S BRIEF NAVC June 9, 2011

One of the newest explanations of FIC (FLUTD, FUS). Without a diagnosis nor a comprehensive means of adequate treatment. This is extremely frustrating for the clinical Veterinarian. As it leaves the owners without a means of curing this frustrating condition. Only palliative treatment at best. I would suggest that those Vets faced in clinical conditions looking at patients and clients across the exam tables to try the above treatments for this condition. As symptoms can be controlled quickly. Although as Vets we still do not have an explanation as to the cause of this malady. Good luck and happy treating. More recent article from Clinicians brief. Still no effective treatment for the unknown.

A. W. Sears, DVM

The screenshot shows the Clinician's Brief website interface. At the top, there is a red banner for a "12.12.12" pet health initiative from Heartgard Plus (ivermectin/pyrantel), with a call to action: "Enroll Today! Visit join121212.com!". Below the banner is the "clinician's brief" logo, with the tagline "The official publication of The North American Veterinary Conference". A search bar is visible with the text "Search Clinician's Brief". The navigation menu includes: CLINICAL TOPICS, EMERGENCY CARE, PROCEDURES, INFECTIOUS DISEASES, CASES, FEATURES, and a "SUBSCRIBE" button. Below the navigation, there are three red buttons: "HOW I TREAT", "UROLOGY & NEPHROLOGY", and "PEER REVIEWED". The main article title is "How to Manage Lower Urinary Tract Signs in Cats" by C. A. Tony Buffington, DVM, MS, PhD, DACVN Ohio State University. The date "September 5, 2012" is displayed. At the bottom right, there is a small image of a green pill and the text "Introducing the" followed by a partially visible logo.



[Click here](#) for closer look

Prescription Diet® c/d® Multicare Feline Bladder Health

For the Nutritional Management of Cats with Feline Lower Urinary Tract Disease (FLUTD) caused by struvite uroliths or urethral plugs, calcium oxalate uroliths, or feline idiopathic cystitis (FIC)

FLUTD is often associated with inflammation of the urinary bladder and urethra. It is characterized by clinical signs such as urinating outside the litter box, frequent attempts to urinate, and/or straining to urinate. Prescription Diet® c/d® Multicare Feline is formulated to provide nutritional management of cats with the 3 most common causes of FLUTD including FIC, struvite uroliths or urethral plugs, and calcium oxalate uroliths.

Prescription Diet® c/d® Multicare Feline pet food contains controlled levels of magnesium, calcium and phosphorus, to reduce building blocks of crystals and uroliths. Prescription Diet® c/d® Multicare Feline also generates an environment that is unfavorable for the development of uroliths due to the addition of antioxidants, Vitamin E and beta-carotene. Prescription Diet® c/d® Multicare Feline contains healthy levels of salt to avoid aggravating undiagnosed kidney disease

A W Sears, DVM

and has high levels of omega-3 fatty acids from fish oil that help break the inflammatory cycle associated with the most common causes of FLUTD.



Key Benefits

Feeding Guide	Average Nutrient And Caloric Contents	Ingredients
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Product Reviews

Key Benefits

Feline Lower Urinary Tract Disease (FLUTD)

-- Struvite and calcium oxalate crystalluria and urolithiasis (reduces the risk of recurrence/occurrence of struvite and calcium oxalate urolithiasis.)

-- Feline Idiopathic Cystitis (FIC).

Not Recommended For:

- Growing kittens, pregnant or nursing cats.
- Patients with concurrent use of urinary acidifiers.

Evidence-Based Clinical Nutrition

Clinical studies have shown that the nutrition in **Prescription Diet® c/d® Multicare Feline** reduces risk of both calcium oxalate and struvite uroliths formation. 1

Clinically proven to maintain urine saturation levels that minimize risks of calcium oxalate crystal growth. 1

These characteristics make **Prescription Diet® c/d® Multicare Feline** veterinary exclusive pet food useful as a nutritional aid for cats with FLUTD or FIC:

Magnesium, Calcium, Phosphorus	Controlled levels	Reduce building blocks of crystals and uroliths.
Potassium Citrate	Added	Inhibits calcium oxalate crystals and uroliths
Antioxidant Bundle	High	Vitamin E and Beta-Carotene counteract oxidative stress and may generate an environment unfavorable for development of uroliths
Omega-3 Fatty Acids EPA and DHA	High	Help break inflammatory cycle associated with uroliths, crystals, and FIC.
Target Urine pH*	6.2 -- 6.4	Discourages struvite formation, with minimal effect on calcium oxalate formation.

Additional Info

- Both dry and wet formulas contain high levels of omega-3 fatty acids from fish oil and antioxidants to help break the cycle of inflammation in patients with FIC.
- Formulated with no excess sodium.
- Ideal for long-term feeding and multi-cat households.
- Dry and canned formulas can be mixed or fed concurrently.

Other Products to Consider

- To dissolve struvite crystals and uroliths: **Prescription Diet® s/d® Feline.**
- Obese-prone cats with struvite crystals or uroliths: **Prescription Diet® w/d® Feline.**

References

A W Sears, DVM

*Urine pH of individual cats may vary due to complicating factors such as time of feeding before urine collection, type of urine collection, individual animal variation, or test methodology.

1. Data on file, Hill's Pet Nutrition, Inc.