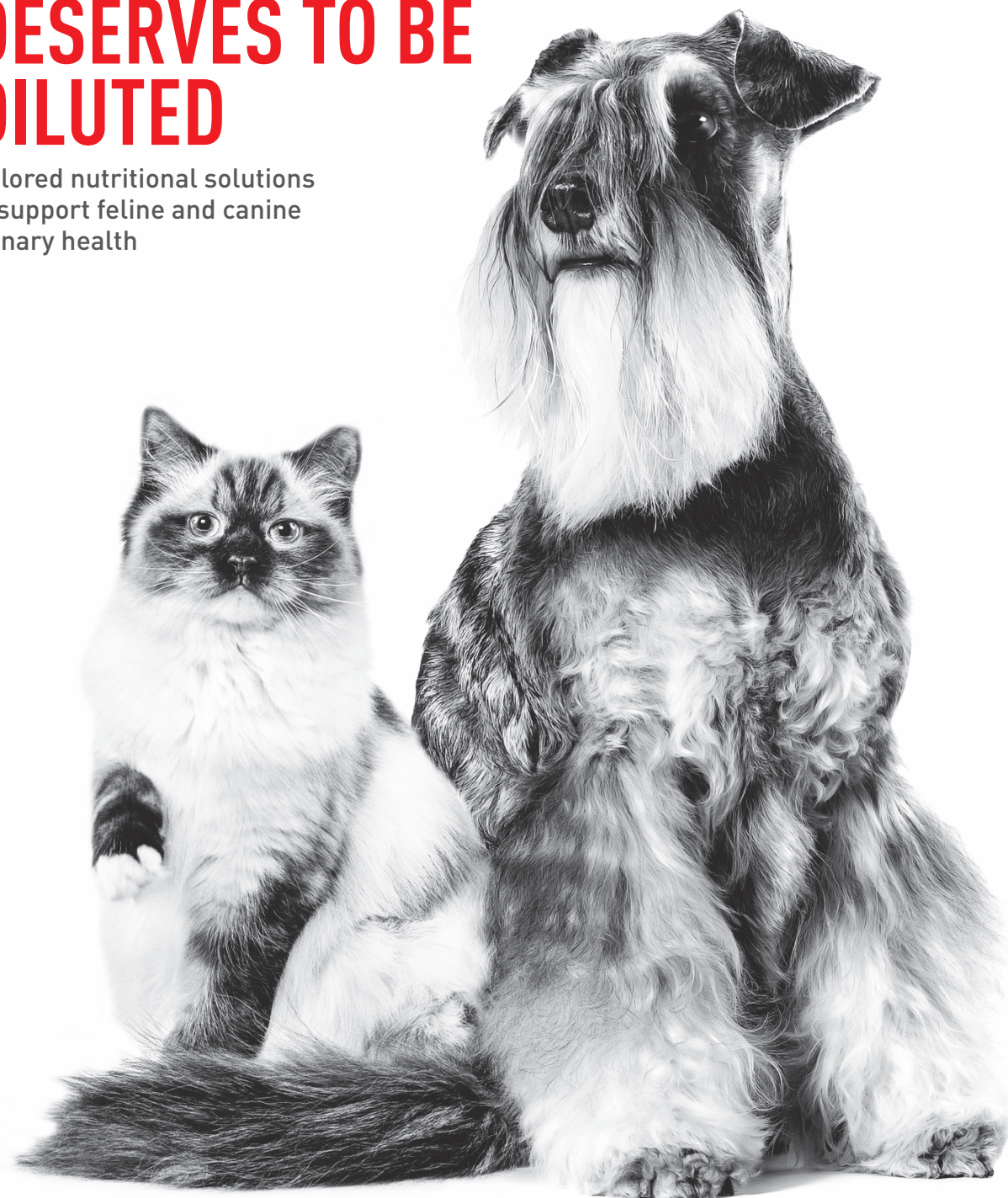




EVERY URINARY CONDITION DESERVES TO BE DILUTED

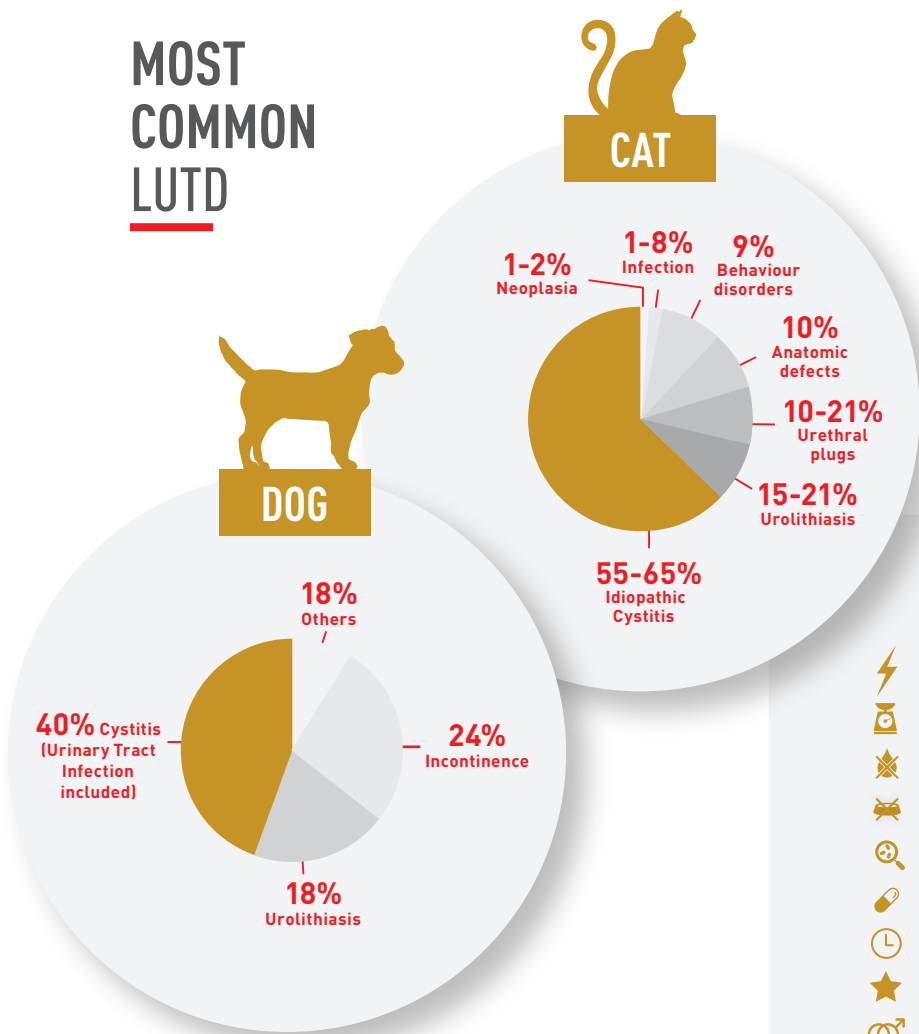
Tailored nutritional solutions
to support feline and canine
urinary health



LOWER URINARY TRACT DISEASE:
**ONE DISEASE –
MULTIPLE
CONDITIONS**

Lower urinary tract disease (LUTD) encompasses a variety of conditions that affect the bladder and urethra. That’s why, despite significant advances in veterinary medicine and the latest diagnostic technologies, LUTD remains challenging to manage.

**MOST
COMMON
LUTD**

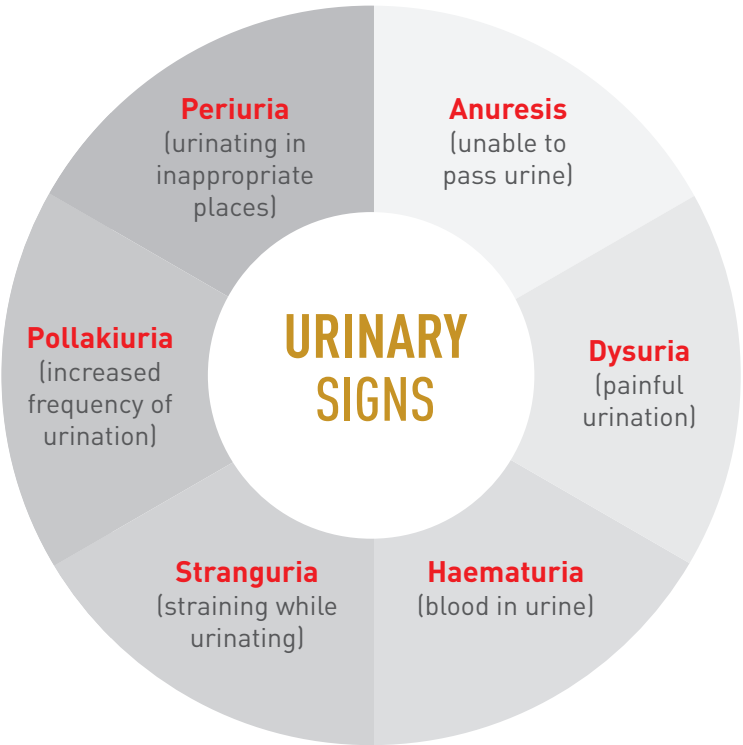


Source: Susan Little, The Cat: Clinical Medicine and Management. Elsevier 2012. ISBN: 978-1-4377-0660-4 page 981.

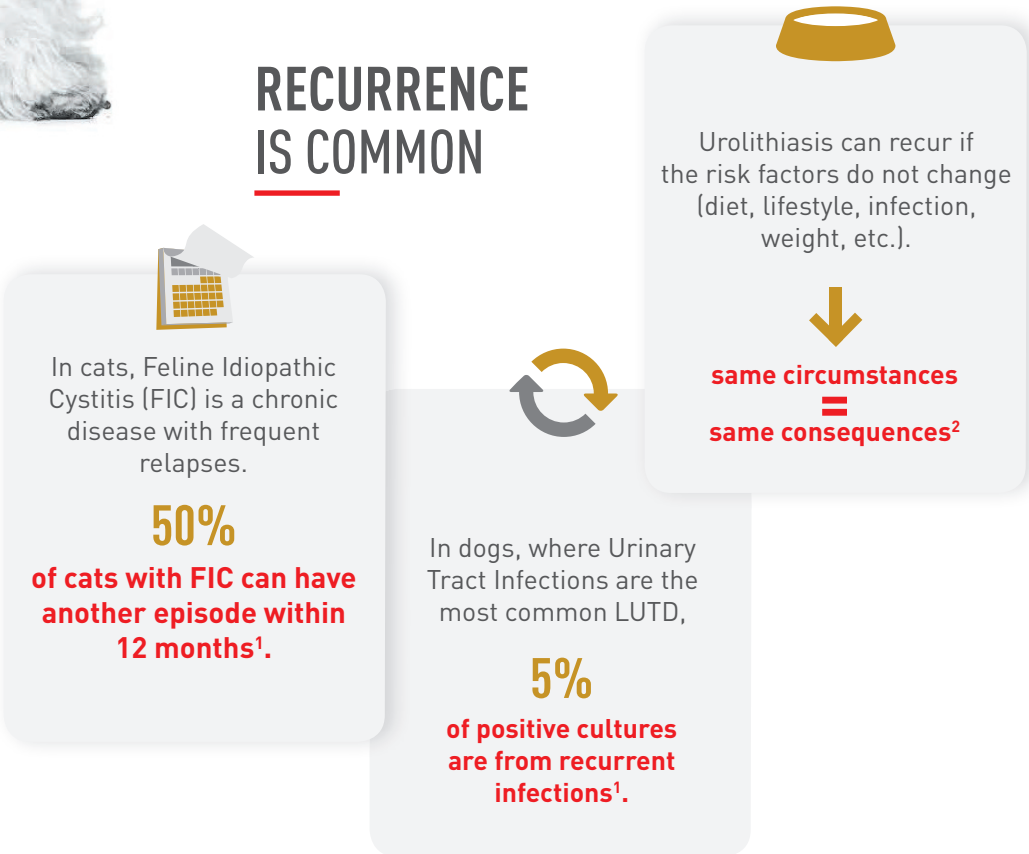
MAIN RISK FACTORS

- ⚡ Stress
- ⚖️ Overweight or obesity
- 💧 Insufficient water intake
- 🍲 Inadequate diet
- 🔍 Existing disease
- 💊 Medical treatment
- 🕒 Age
- ★ Breed
- ♀️ Gender

**CLINICAL
SIGNS**



**RECURRENCE
IS COMMON**



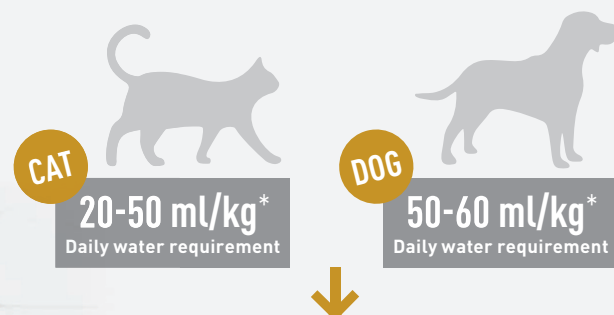
Source: Lulich JP, Osborne CA, Bartges JW et al - Canine lower urinary tract disorders. In Ettinger SJ, Feldman EC, (eds). Textbook of Veterinary Internal Medicine Diseases of the Dog and Cat. 5th edition. Philadelphia: WB Saunders Co, 2000: 1747-1781.

¹ Chew D – Canine and Feline Nephrology and Urology; p 336; Elsevier 2011.
² Bartges J & Polzin DJ – Nephrology and Urology of Small Animals. Wiley-Blackwell 2011.

WHATEVER THE CONDITION,
**NUTRITION PLAYS
A KEY ROLE TO
HELP SUPPORT A
PET WITH LUTD**

Controlling water, nutrient and mineral intake can play a key role in supporting a urinary patient's recovery.

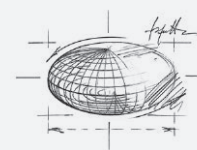
01 HYDRATION
INCREASING WATER
INTAKE TO DILUTE URINE



WET DIETS OR A SPECIFIC DRY FORMULATION
CAN INCREASE WATER INTAKE

02 FOOD
LUTD CAN BE
DIET-RESPONSIVE³

- **Nutritional management** plays a primary role in the dissolution of struvite uroliths.
- **Low calcium oxalate (CaOx) RSS** will reduce the formation of CaOx crystals.
- **Specific nutrients** are useful in the management of cats with FIC.



ROYAL CANIN® DIETS
increase water intake
and guarantee high
Relative Supersaturation (RSS)
performance in mixed feeding

★★★
High quality
proteins

Controlled and
balanced mineral
content

Specific nutrients
like L-tryptophan
or alpha-casozepine

ROYAL CANIN RSS PERFORMANCE

LABILE
SUPERSATURATION
Crystal formation

METASTABLE
SUPERSATURATION
Crystal solubility

UNDERSATURATION
No crystal
formation/dissolution

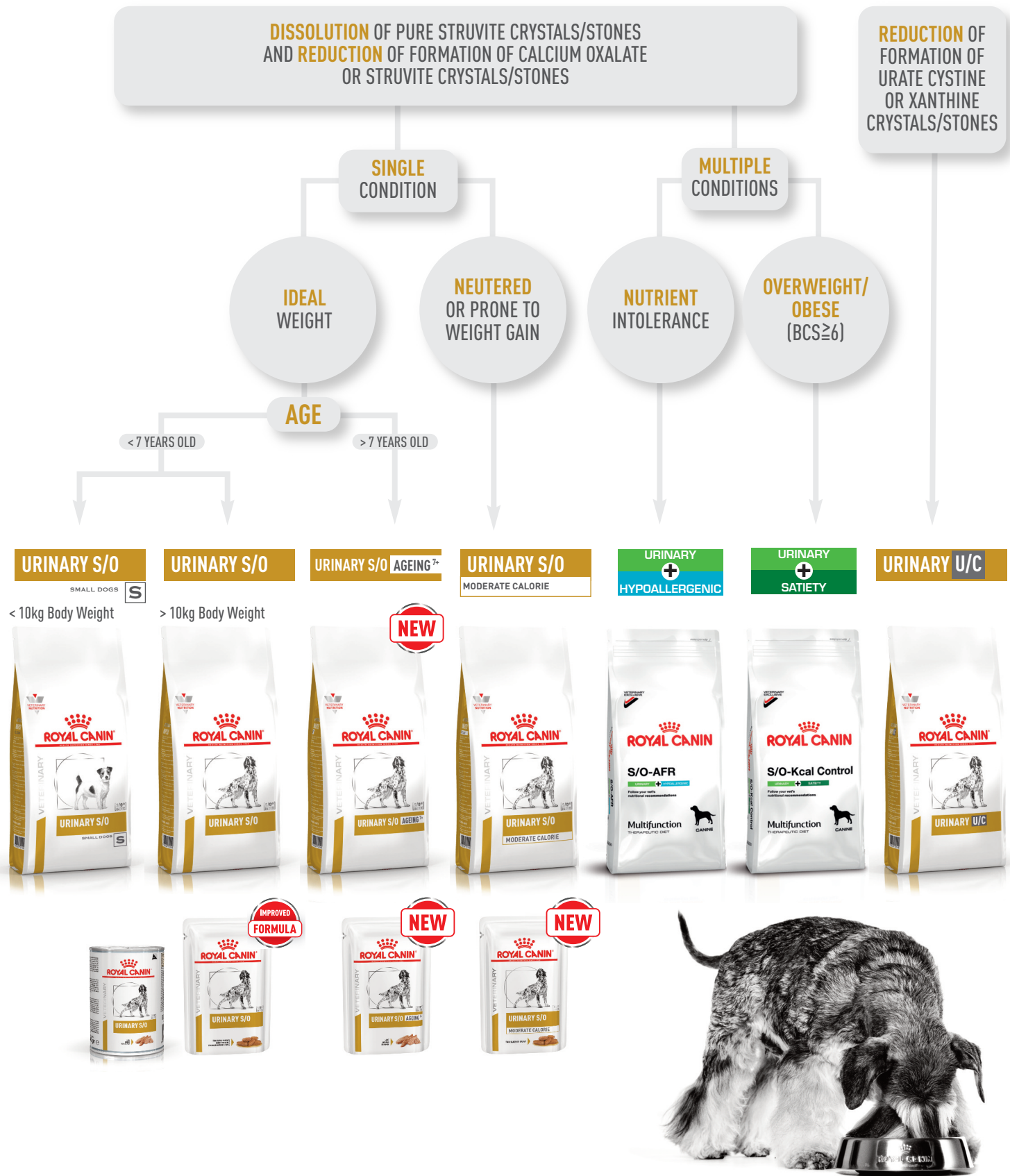
*National Research Council, *Nutrient requirements of dogs and cats*, 2006.

³Landsberg G, Milgram B, Mougeot I - Therapeutic effects of an alphacazepine and L-tryptophan supplemented diet on fear and anxiety in the cat. Journal of Feline Medicine and Surgery 2017, Vol. 19(6) 594-602. Food moisture content: Wet food ≈ 85%, Dry food ≈ 9%

FELINE NUTRITIONAL MANAGEMENT DECISION TREE



CANINE NUTRITIONAL MANAGEMENT DECISION TREE



LITTER GRANULES FOR BETTER FOLLOW UP

LUTD SIGNS ARE CHALLENGING TO FOLLOW

CATS OFTEN HIDE SIGNS OF DISEASE



Difficult to detect health problems at an early stage

RECURRENCE IS COMMON



Early detection of signs of recurrence can reduce complications

CAT OWNERS WORRY ABOUT THEIR PET'S HEALTH



Difficult to have effective follow up at home

HEMATURIA IS A STRONG INDICATOR OF MOST LUTD



Early detection of this key indicator can enable earlier intervention

A BREAKTHROUGH TOOL FOR HAEMATURIA DETECTION



ROYAL CANIN HEMATURIA DETECTION BY BLÜCARE IS A TOOL WHICH ENABLES EARLY DETECTION OF BLOOD IN A CAT'S URINE MAKING HEALTH MANAGEMENT EASIER

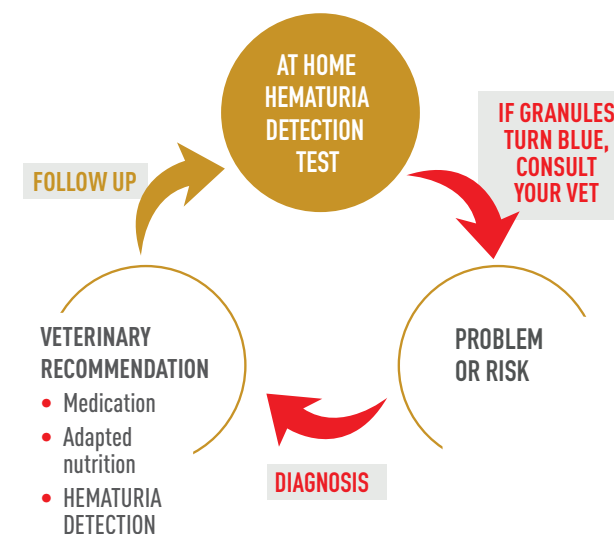
WHAT IT IS

- **White granules with a reagent incorporated that turns from white to blue when it comes into contact with blood.**

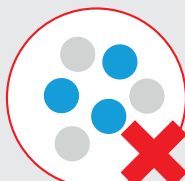


WHEN TO USE IT

HEMATURIA DETECTION should be used as a follow up after an episode of LUTD.



HOW TO USE IT

-  **Spread the granules over the cat litter.**
 -  **Inspect the litter box after the cat urinates.**
 -  **If the granules are white, the test is negative.**
 -  **If the granules have turned blue, the test is positive and indicates the presence of blood in the cat's urine.**
-  **Consult your vet without delay.**

NEW PRODUCT INNOVATION

URINARY S/O AGEING 7+








Cutting edge innovation to effectively manage and support ageing dogs with LUTD.



MORE THAN 1/5
DOGS DEVELOP COGNITIVE DYSFUNCTION
SYNDROME AFTER 9 YEARS OLD

**OTHER ISSUES EFFECTING
AGEING DOGS INCLUDE:**



-  Increased susceptibility to infection
-  Decreased capacity to retain water
-  Behavioural changes
-  Increased sensitivity to stimuli
-  Sarcopenia
-  Poor appetite
-  Reduced nutrient absorption



MAIN FEATURES AND BENEFITS

**URINARY
TRACT HEALTH**



Effective struvite stone dissolution and specifically formulated for up to 80% of all urinary stones.

**COGNITION
AND VITALITY
AGEING SUPPORT**



Support dogs' vitality and cognition with an exclusive blend of nutrients and antioxidants. Also supports kidney health.

**HIGHLY
PALATABLE
PRODUCTS**



To facilitate food intake with ageing dogs suffering from poor appetite.

**URINARY
SECURITY**



RSS tested to reduce the risk of struvite and calcium oxalate crystal formation.

LOWER URINARY TRACT DISEASE: ONE GOAL

Over the years, we have continued towards a common goal of ensuring the best urinary health for pets. As your nutritional partner, we are determined to go further in our search for more innovative nutritional solutions and services to ensure your clients are more satisfied and your business more successful.

Together, we can support your patients to help maintain their urinary health.

01- DIAGNOSIS

- History
- Clinical examination
- Radiography
- Urinalysis
- Ultrasonography

02- MANAGEMENT PROTOCOL

- Increase water intake
- Diet adaptation
- Medical treatment
- Environmental modification (FIC cats)
- Lifestyle changes
- Surgery

03- FOLLOW UP TO MINIMISE RECURRENCE

- Regular urinalysis
- Specific diet
- Weight monitoring (in pets at risk of obesity)
- Environmental changes in cats (identify triggering factors)⁴
- Hematuria Detection

04- PET OWNER COMMUNICATION

- To build awareness and knowledge
- To ensure long term compliance
- To minimise concern
- To help avoid recurrence



⁴Buffington CA et al -Clinical evaluation of multimodal environmental modification [MEMO] in the management of cats with idiopathic cystitis. J Feline Med Surg. 2006 Aug;8(4):261-8.