# PURINA® PROPLAN®

GIVE YOUR CLIENTS THE ESSENTIAL NUTRITION FOR LIFELONG RENAL AND URINARY CARE



## **Nutritional Support for Renal & Urinary Care:** A Client-Friendly Guide for Clear Understanding

We know that nutrition can help support renal and urinary function, but convincing clients to switch to a specially formulated diet can be challenging. At PRO PLAN® we want to help you communicate the benefits of diet and hydration to help your clients see the value of specialised nutrition for renal and urinary care for themselves.

#### Renal diets can provide nutritional support to help favour better clinical outcomes in patients with Chronic Renal Insufficiency (CRI)<sup>1,2</sup>

Each kidney contains thousands of filtration units called nephrons that remove waste substances through urine.

CRI is characterised by a progressive loss of functional nephrons and their ability to filter the blood<sup>1</sup>.

Renal diets are formulated by limiting certain ingredients to reduce build-up in the body and workload on the kidneys<sup>1,2</sup>.





#### Specialised diets can nutritionally support the treatment of a wide range of urinary issues



1. Bartges JW. 2012. Chronic kidney disease in dogs and cats. Vet Clin North Am Small Anim Pract. 42: 669-92

2. Elliott J, Rawlings JM, Markwell PJ, et al. 2000. Survival of cats with naturally occurring chronic renal failure: effect of dietary management. J Small Anim Pract: 41:235–42.

3. Osborne CA, Lulich JP, Kruger JM, Ulrich LK, Koehler LA. 2008. Analysis of 451,891 canine uroliths, feline uroliths, and feline urethral plugs from 1981 to 2007: perspectives from the Minnesota urolith center. Vet Clin Small Anim. 39: 183-97.

4. Kopecny L, Palm CA, Segev G, Westropp JL. 2021. Urolithiasis in dogs: Evaluation of trends in urolith composition and risk factors (2006-2018). J Vet Intern Med. May; 35(3):1406-1415

# **Demystifying Renal & Urinary Diets**

By explaining the role of each ingredient, we unravel the mysteries of specialised diets, enabling your clients to understand why these diets are crucial for supporting the health of their pets with renal and urinary issues.

#### Certain ingredients can impact renal health:

The breakdown of protein creates waste that the kidneys need to filter out.

Electrolytes, such as sodium and potassium help maintain fluid balance and muscle contraction.

Phosphorus can contribute to calcium deposits which worsen renal function.

Omega-3 fatty acids may help support natural anti-inflammatory response process.



#### Certain factors can contribute to urinary tract issues:

Alkaline urine favours the crystallisation of calcium and phosphate-containing uroliths.

Uroliths form when urine becomes saturated with mineral compounds.

Urease-producing bacteria can lead to struvite stone formation.

Bladder irritation causes mucus, which can cluster with crystals, gradually forming uroliths.

1. Ross SJ, Osborne CA, Kirk CA, et al. 2006. Clinical evaluation of dietary modification for treatment of spontaneous chronic kidney disease in cats. Journal of the American Veterinary Medical Association, 229(6): 949-957 2. Osborne CA, Lulich JP, Unger LK, et al. Canine and feline urolithiasis: relationship of etiopathogenesis to treatment and prevention. In: Canine and Feline Nephrology and Urology, eds Osborne CA, Finco DR. Philadelphia: Lea and Febiger. 1995: 798-888. 3. Torres-Henderson C, Bunkers J, Contreras ET, Cross E, Lappin MR. 2017. Use of PURINA® PRO PLAN® VETERINARY DIETS UR Urinary St/Ox to Dissolve Struvite Cystoliths. Top Companion Anim Med. 32(2):49-54.





**RENAL & URINARY** 

Nutrition FOR LIFELONG CARE

#### PURINA® PRO PLAN® VETERINARY DIETS Nutritional support for renal and urinary patients

Find the most suitable product in our PURINA® PRO PLAN® VETERINARY DIETS range to provide nutritional support in cases of renal and urinary issues in cats and dogs\*.



Feline nutritional support in case of renal and urinary issues



\*Please note that all indications for PRO PLAN Veterinary Diets mentioned are for the dietary support of cats and dogs with the listed condition and do not preclude appropriate medical management. The veterinary diets should be used under veterinary supervision

\*\*\*Dry formula only

## PURINA® PRO PLAN® **Everyday nutrition for healthy cats**

PURINA® PRO PLAN® RENAL PLUS offers a selection of maintenance diets designed with a variety of flavours and formulated with specific ingredients to actively support kidney function throughout a cat's lifespan.



Complete dry pet food for adult healthy cats to support healthy kidney function





Adult

Adult Neutered

# **Encouraging feline hydration**

Cats are poor drinkers compared to dogs, and ensuring adequate water intake can be a constant challenge. There are several simple ways you can recommend to your clients to encourage increased water intake:



1. Greco D, Xu H, Zanghi B, et al. 2014. The effect of feeding inversely proportional amounts of dry versus canned food on water consumption, hydration and urinary parameters. WSAVA Proceedings, 39



**RENAL & URINARY** 

Nutrition

FOR LIFELONG CARE



Recomend PURINA<sup>®</sup> PRO PLAN<sup>®</sup> Hydra Care™ to help your feline patients increase total water intake and promote hydration\*.



\*\*for each 2kg of bodyweigh

## Hydration goes hand-in-hand with nutrition

Adequate water intake helps to<sup>1,2</sup>:



Flush the urinary system

Water helps maintain a healthy blood flow to the kidneys to flush out waste through urine.



**Promote urine dilution** 

The more diluted the urine, the lower the risk of crystals and proteins forming stones and plugs.



**Balances electrolytes** 

Water can help maintain the balance of electrolytes in the blood.

# PURINA VetCenter Want to keep learning about renal & urinary health?

Master nutrition conversations with your clients by joining our PURINA® Learning Journey, now with the new Renal & Urinary Care module.

Together, we can help you expand your knowledge and take the lead in renal & urinary nutritional support and much more!

## Your learning journey at a glance

#### Check out the content of the new module:





Dietary management of CRI











# Help hydration conversations flow with the new PRO PLAN<sup>®</sup> Water Intake Calculator



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Asking your clients how much water their pets are drinking, can serve as an excellent starting point to raise awareness regarding urinary health and the importance of adequate hydration.

Share the PRO PLAN® Water Intake Calculator with your clients to easily find out the recommended water intake their pet's should drink on a daily basis and much more:

Recommended daily water consumption.

Refreshing tips to increase water intake.

Recognising the significance of keeping their pet well-hydrated.

#### Click here to start

Queau Y. 2019. Nutritional management of urolithiasis. Veterinary Clinics of North America: Small Animal Practice, 49, 175–186.

2. Carlson GP. 1997. Fluid, electrolyte, and acid-base balance. In J. Kaneko, J. Harvey, & M. Bruss (Eds.), l biochemistry of domestic animals (5th ed., pp. 485-516). doi: <u>10.1016/B978-012396305-5/50019-1</u>







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How to communicate with pet parents





Encouraging water intake

Hydration in pets .....



Certificate awarded



PURINA® PRO PLAN®. FOR VETS. AND FOR OUR LOVE OF PETS.

