



**+ RF Support**

**H** Hypoallergenic and zero contraindications, suitable for all carnivorous animals

The full pathophysiology of the etiology of dysrexia in CKD is incomplete.<sup>10</sup> Many CKD cats have a reduced food intake, coupled with being fed a restricted protein renal diet can result in a protein deficit.<sup>11</sup> Thus lower muscle condition and body condition scores. This is an important factor in owner's perceived Quality of Life scores for their cat.<sup>12</sup> Actively encouraging cats to eat, offering their food up in different formats, adding toppers to their diets can help encourage eating more.



Retention of phosphorus and secondary hyperparathyroidism are common complications of feline CKD. Phosphate restriction reduces the severity of renal pathology in CKD.<sup>13</sup> Phosphate restriction is thought to be mainly responsible for the improved longevity seen in cats with CKD.<sup>8</sup> It is important that when additional food stuffs or broths are offered up to cats that they contain the nutrient spectrum that is advocated for CKD.

**Dysbiosis and CKD**

Dysbiosis contributes to an elevation of the gut microbiota-derived uremic toxins such as indoxyl sulfate (IS), p-cresyl sulfate (p-CS), and trimethylamine N-oxide (TMAO), and increased intestinal permeability by the expansion of urease-possessing bacteria.<sup>14,15,16,17,18</sup>

**FEEDING GUIDE**

Use	Size / Weight	Vol/24hrs	ml/kg
<b>Managed Feeding Tube</b>	<b>Kitten - Cat</b>	<b>0-4 Hrs Increasing +50% every 4 Hrs</b>	<b>0.25 - 0.5 ml/kg/hr</b>
<b>Oral Rehydration Serve Free Choice</b>	<b>0.5 - 1kg</b>	<b>50ml &lt;</b>	<b>50ml</b>
	<b>3 - 4.5kg</b>	<b>150ml &gt;</b>	<b>50ml</b>

**DIRECTIONS FOR USE:**

Oralade® is a dietetic complementary feed for the reduction of acute intestinal absorptive disorders. This product should be used during periods of and recovery from acute diarrhoea. The formula is also suitable for use in renal support. Contains a balanced, increased level of electrolytes including sodium and potassium, as well as easily digestible sugars. Period of use up to 6 months. It is recommended that a veterinarian's opinion be sought before use or before extending the period of use. Water should be available at all times.

COMPOSITION	ANALYTICAL CONSTITUENTS	ADDITIVES	ENERGY VALUES
Purified Water, Dextrose Monohydrate, Sodium Chloride, Potassium Chloride, Monosodium Phosphate, Chicken Liver Hydrolysate	Crude Protein 1.0%, Crude Fat < 0.4% Crude Fibre 0.1%, Moisture 98%, Ash 0.3%, Potassium 0.04%, Sodium 0.1%, Chloride 0.16% Calcium 0.005%, Phosphorus 0.003% Na 44mmol/L, K 12mmol/L, CL 45mmol/L, Ca 1.5mmol/L, P 11mmol/L	Xanthan Gum 0.2%, Roast Chicken Flavour 0.1%, Amino Acids: Glycine 0.45%, Taurine 0.08%, L-Carnitine 0.01%, Lysine 0.15%, Arginine 0.15%, Monosodium Glutamate 0.25%	14 kcal per 100ml

Can be frozen, makes perfect tasty ice-cube treats

Satisfaction Guaranteed or your money back

**REFERENCES**

- O'Neill, DG, Church, DB, McGreevy, PD. Prevalence of disorders recorded in cats attending primary-care veterinary practices in England. *Vet J* 2014; 202: 286-291.
- Lulich, JP, Osborne, CA, O'Brien, TD. Feline renal failure: questions, answers, quest. *Compen Contin Educ Pract Vet* 1992; 14: 127-152.
- O'Neill, DG, Church, DB, McGreevy, PD. Longevity and mortality of cats attending primary care veterinary practices in England. *J Feline Med Surg* 2015; 17: 125-133.
- Bartlett, PC, Van Buren, JW, Bartlett, AD. Case-control study of risk factors associated with feline and canine chronic kidney disease. *Vet Med Int* 2010; 2010: 957-570.
- Greene, JP, Lefebvre, SL, Wang, M. Risk factors associated with the development of chronic kidney disease in cats evaluated at primary care veterinary hospitals. *J Am Vet Med Assoc* 2014; 244: 320-327.
- Hughes, KL, Slater, MR, Geller, S. Diet and lifestyle variables as risk factors for chronic renal failure in pet cats. *Prev Vet Med* 2002; 55: 1-15.
- Jepson, RE, Brodbelt, D, Vallance, C. Evaluation of predictors of the development of azotemia in cats. *J Vet Intern Med* 2009; 23: 806-813.
- Sparks, AH, Caney, S, Chalhoub, S, et al. ISFM Consensus Guidelines on the Diagnosis and Management of Feline Chronic Kidney Disease. *Journal of Feline Medicine and Surgery* (2016) 18, 219-239.
- Reference for palatability trials.
- Quimby, JM. Updates on Management of Feline CKD. *Proceedings of Companion animal Nutrition Symposium*. October 21-22, 2019, Prague, Czech Republic, pp12-15.
- Laflamme, D. Controversies Regarding Nutrition and Renal Health in Cats. *Proceedings of Companion animal Nutrition Symposium*. October 21-22, 2019, Prague, Czech Republic, pp16-19.
- Bijsmans ES, Jepson RE, Syme HM, Elliott J, Niessen SJM. Psychometric validation of a general health quality of life tool for cats used to compare healthy cats and cats with chronic kidney disease. *J Vet Intern Med*. 2016;30(1):183-191. 10.1111/jvim.13656.
- Kidder, AC, Chew, D. Treatment options for hyperphosphatemia in feline CKD: what's out there? *J Feline Med Surg* 2009; 11: 913-924.
- Lau, W. L., Savoj, J., Nakata, M. B. & Vaziri, N. D. Altered microbiome in chronic kidney disease: systemic effects of gut-derived uremic toxins. *Clin. Sci.* 132, 509-522 (2018).
- Tang, W. H. et al. Gut microbiota-dependent trimethylamine N-oxide (TMAO) pathway contributes to both development of renal insufficiency and mortality risk in chronic kidney disease. *Circ. Res.* 116, 448-455 (2015).
- Vaziri, N. D. et al. Disintegration of colonic epithelial tight junction in uremia: a likely cause of CKD-associated inflammation. *Nephrol. Dial. Transplant.* 27, 2686-2693 (2012).
- Wong, J. et al. Expansion of urease- and uricase-containing, indole- and p-cresol-forming and contraction of short-chain fatty acid-producing intestinal microbiota in ESRD. *Am. J. Nephrol.* 39, 230-237 (2014).
- Chen, Y. Y. et al. Microbiome-metabolome reveals the contribution of gut-kidney axis on kidney disease. *J. Transl. Med.* 17, 5 (2019).



**+ RF Support**

**Renal Fluid Support Oral Rehydration & Simple Nutrition**



**NEW**  
**IMPROVED FORMULA**

**#feeddontfast**

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Terms and Conditions apply see website for more details.



**Oralade® RF Support** is a highly palatable ready-to-serve isotonic formula, providing microenteral nutrition and oral rehydration support for cats with acute intestinal absorptive disorders and chronic kidney disease (CKD). **RF Support** provides a balance of essential electrolytes, simple sugars and restricted levels of high quality protein. Made with a natural chicken flavour and purified water.

## Problems and indications

### Chronic Kidney Disease (CKD)

CKD is a very common disease encountered in older cats. Kidney disease is often scored and monitored according to IRIS guidelines. The IRIS system is based on international experts recommendations and aids in decision making and monitoring. Increasing fluid intake is recommended for all stages of CKD.

**RF Support** is therefore suitable to increase fluid intake in all stages of CKD due to its unique taste and optimized electrolyte composition.

### Lower Urinary Tract (LUT) Disease

LUT disease is common and affects cats at all ages. The condition is associated with a lot of discomfort and pain for the patient. The exact cause is often unknown and management can be highly frustrating for both the owner and the veterinarian. Despite appropriate therapy recurrence is common. LUT disease may lead to urinary obstruction, which is a life-threatening problem that requires immediate veterinary attention. An essential part of treating these diseases is increasing water consumption to promote the production of dilute urine. For non-obstructive or post-obstructive LUT disease **RF Support** can assist in recovery and maintenance.

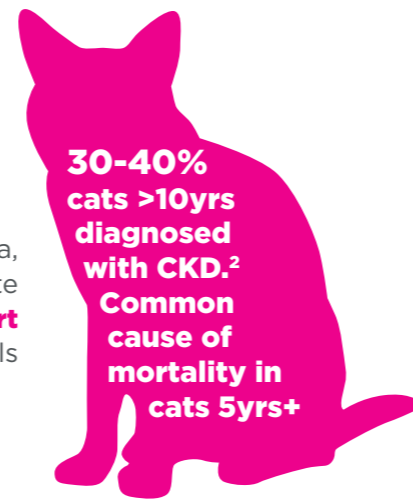
### Anorexia and Poor Appetite in Cats

Cats do not tolerate fasting and must meet at least 2/3 of their daily energy requirements. Periods of anorexia or poor appetite can have serious consequences and should therefore be approached promptly.

**RF Support** is the perfect supplement to encourage increased consumption of any diet,

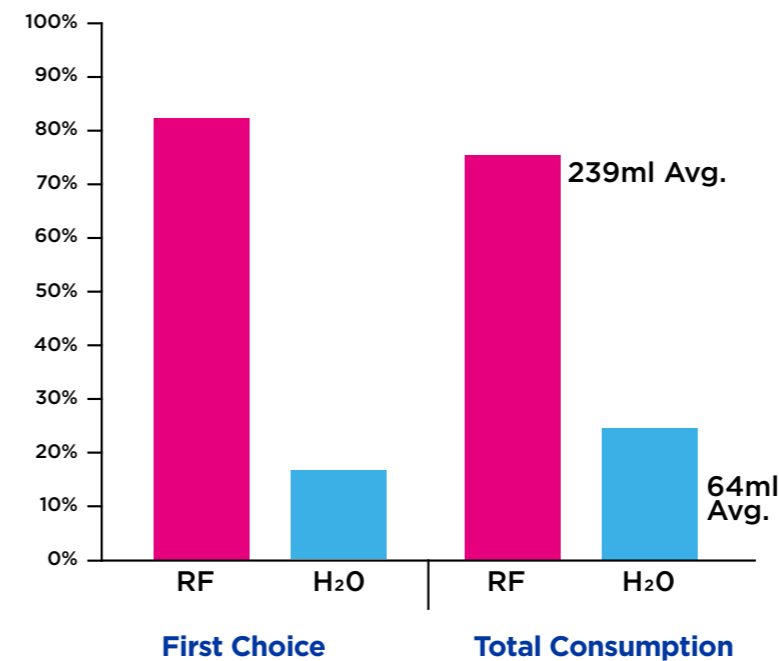
## Benefits of increased fluid intake and appetite

areal blood flow.<sup>8</sup> Supplementation of fluids via feeding tubes can be exceptionally efficacious and have the benefit of avoiding sodium and fluid overloads which can be seen when cats are diuresed with intravenous fluids. A feeding tube is suitable for long-term maintenance of hydration and is a more physiological approach.<sup>8</sup> It also allows for nutritional support when needed.<sup>8</sup>



- Avoid overhydration risks associated with SC fluids boluses.**
- easily digestible with simple glucose for energy**
- high quality low level protein -amino acids (Taurine, Arginine, Lysine, L-Carnitine)**
- Ready to serve, isotonic and highly palatable with natural chicken flavour**
- increase appetite of newly prescribed diets**
- increase fluid intake for improved hydration and supports flushing of waste materials**

## RF Support vs H<sub>2</sub>O Water



Supplementing the diet with extra water, such as RF Support, as a stand-alone drinking solution, through mixing with the diet, or via feeding tubes is a viable option. Palatability studies have demonstrated that Oralade RF Support has a higher intake than fresh water.<sup>9</sup>

- 30 Cats
- 2 Day Trial
- 600ml per Product/Cat

