



NUTRITIONAL MANAGEMENT FOR CANINE LUTD

Check with local regulatory before use



ROYAL CANIN
INCREDIBLE IN EVERY DETAIL

DISSOLUTION OF PURE STRUVITE CRYSTALS/STONES &
PREVENTION OF CALCIUM OXALATE OR
STERILE STRUVITE CRYSTALS/STONES

PREVENTION OF URATE,
CYSTINE OR XANTHINE
CRYSTALS/STONES

**SINGLE
CONDITION**

**IDEAL
WEIGHT**

**NEUTERED
OR PRONE TO
WEIGHT GAIN**

7 YEARS OLD

< 10 KG

< 10 KG

URINARY S/O

SMALL DOGS
S

URINARY S/O

URINARY S/O AGEING 7+

URINARY S/O
MODERATE CALORIE

URINARY U/C



WINDIES.

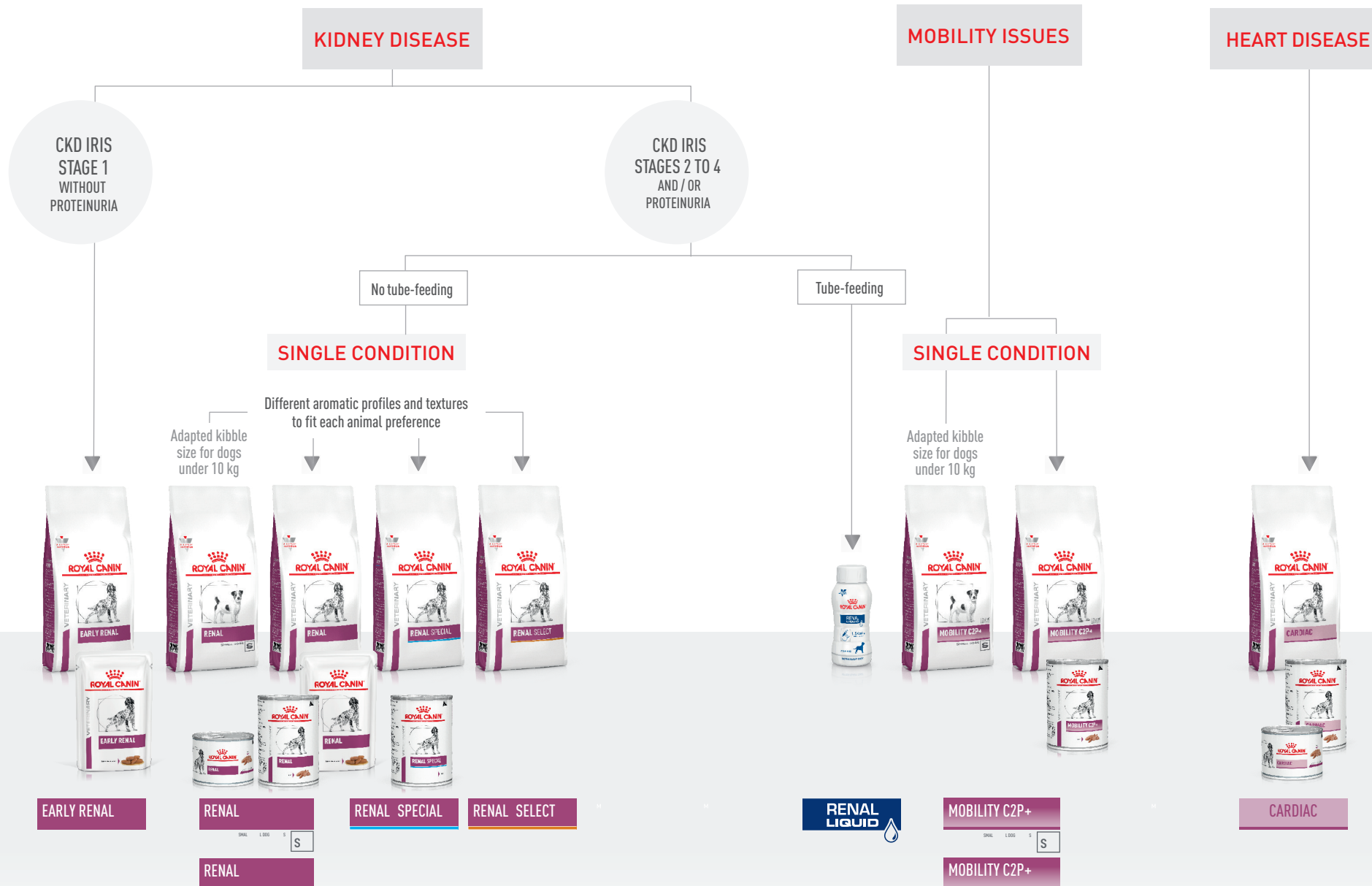


NUTRITIONAL MANAGEMENT FOR CANINE DEGENERATIVE DISEASES

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NUTRITIONAL MANAGEMENT FOR CANINE DERMATOLOGICAL CASES



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CASE HISTORY AND CLINICAL EXAMINATION IN DOGS WITH CHRONIC PRURITUS

**DERMATOSIS
& HAIR LOSS**

INFECTIONS & EXTERNAL PARASITES
(bacterias, yeasts, fleas, cheyletiella,
harvest mites, lice, otodectes, sarcoptes...)

**SUSPICION
ALLERGIC SKIN DISEASE**
(after ruling out other causes of chronic pruritus)

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NON RESOLUTION

**CONFIRMATION
ENVIRONMENTAL
ATOPY**

**DIAGNOSIS
ELIMINATION TRIAL**

**EXTENSIVELY
HYDROLYZED***

RESOLUTION
(and worsening after re-challenge)

**CONFIRMATION
ADVERSE FOOD
REACTION**

+ ADAPTED MEDICAL TREATMENT, IF NEEDED



SKIN CARE

SKIN SUPPORT

**EXTENSIVELY
HYDROLYZED***



ANALLERGENIC

**PARTIALLY
HYDROLYZED***



HYPOALLERGENIC



SENSITIVITY CONTROL



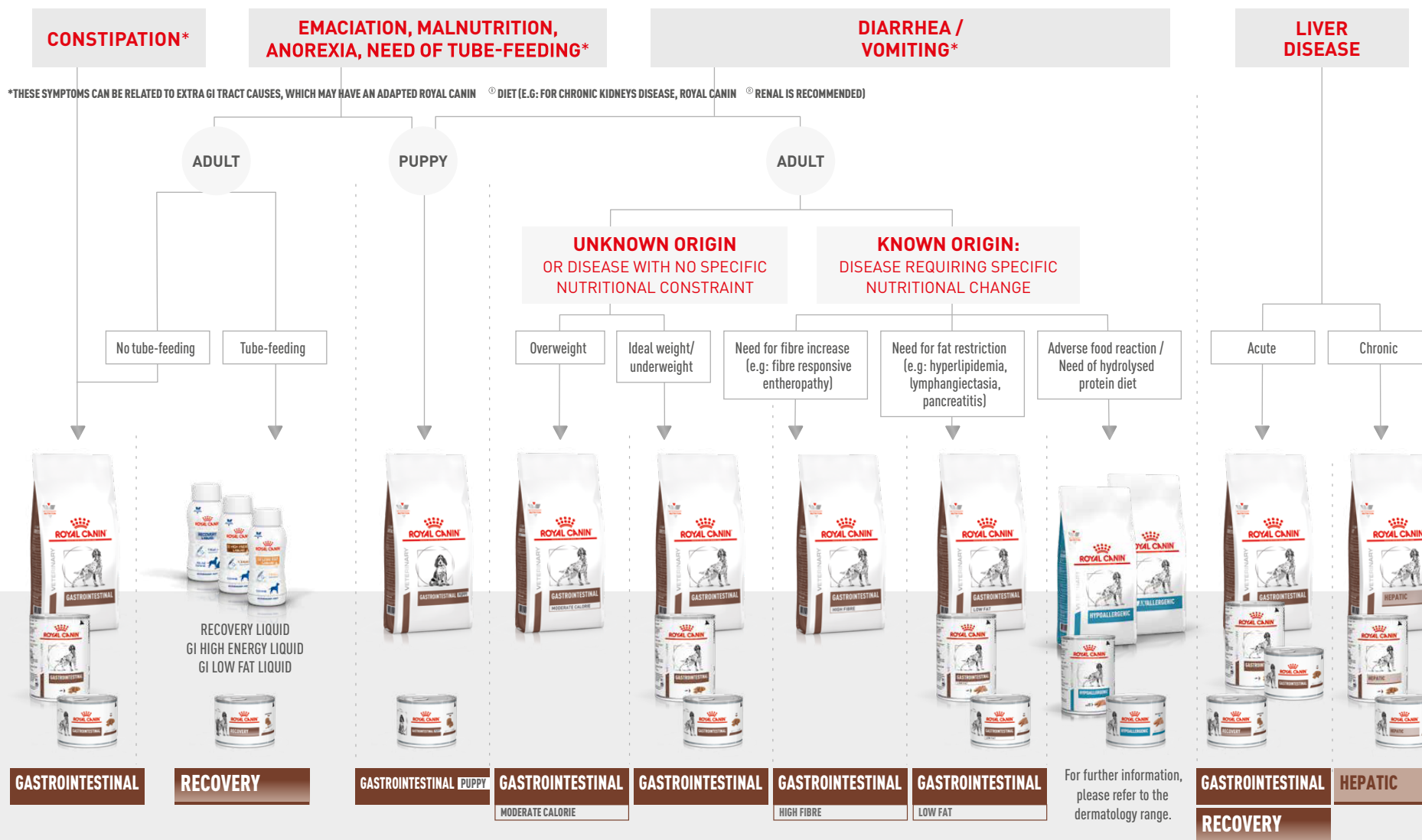
NUTRITIONAL MANAGEMENT FOR CANINE GASTROINTESTINAL TRACT CASES

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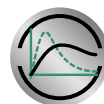
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UNCOVER THE CLINICAL BENEFITS OF ROYAL CANIN® DIABETIC DIET



SPECIFIC FORMULA TO HELP IN THE MANAGEMENT OF POST-PRANDIAL BLOOD GLUCOSE IN DIABETIC PETS



HIGH PROTEIN CONTENT. MAINTENANCE OF MUSCLE MASS IS ESSENTIAL IN DIABETIC PETS



FORMULA THAT CONTAINS A REDUCED LEVEL OF STARCH



BENEFITS OF ROYAL CANIN® VETERINARY HEALTH NUTRITION DIABETIC

- ✓ ROYAL CANIN® **DIABETIC** is specifically formulated to help in the management of glycemia.
- ✓ **DIABETIC** has a **low starch** content. This is important, as dietary starch increases the postprandial blood glucose response.^{10,11}
- ✓ **DIABETIC**'s macronutrient profile supports **glucomodulation**. A body of research has shown that **low carbohydrate and high protein** diets, in combination with insulin, help manage Diabetes Mellitus^{12,13,14,15} and may allow for the insulin dosage to be reduced.¹³ When a low carbohydrate high protein diet is combined with aggressive insulin therapy, **some cats can even experience full remission** of clinical signs associated with Diabetes Mellitus and no longer require insulin.^{12,13,14}
- ✓ **DIABETIC** has a high protein content. A high-protein diet not only contributes to glucomodulation, but also helps to **maintain lean muscle mass** and optimize body composition during weight loss and in ideal weight pets.^{1,2,16}
- ✓ **DIABETIC** has an **adapted fibre blend**. A specific blend of dietary fibre can improve glycemic control, possibly by slowing down gastric emptying, reducing the rate of starch degradation and help flattening the post-prandial glucose curve in dogs.¹⁷
- ✓ Due to its **moderate levels of fat and energy** content, **DIABETIC** meets the needs of patients with various caloric requirements, up to a BCS of 6/9.
- ✓ **DIABETIC** is **highly palatable**, which is important to help ensure consistent intake, especially during stabilization of the diabetic patient.
- ✓ **DIABETIC**'s **synergistic antioxidant complex** helps to counter the negative effects of free radicals.

GOALS FOR NUTRITIONAL MANAGEMENT OF DM^{3,4}

• Ensure daily consistent food intake to improve glycemic control.

A highly palatable diet helps to ensure full consumption of each meal. Mixed feeding (feeding of dry and wet food) allows to tailor for individual preferences in cats and dogs. To promote consistent glycemic control, each day, the same amount of dry and wet food must be fed.

• Support glucomodulation through a diet with an adapted formula.

High protein, low starch and adapted fibre levels help to minimize post-prandial hyperglycemia.

• Aim for a healthy body weight to improve insulin sensitivity.

Weight loss in obese patients can reduce insulin resistance and has been linked to diabetic remission in cats.

1. Blanchard et al. Rapid weight loss with a high-protein low-energy diet allows the recovery of ideal body composition and insulin sensitivity in obese dogs. J Nutr. 2004;134(8):2148S-2150S.
2. Hoenig et al. Insulin sensitivity, fat distribution, and adipocytokine response to different diets in lean and obese cats before and after weight loss. Am J Physiol Regul Integr Comp Physiol. 2007;292(1):R227-R234.
3. Behrend et al. AAHA diabetes management guidelines for dogs and cats. J Am Anim Hosp Assoc. 2018;54(1):1-21.
4. Sparkes et al. ISFM consensus guidelines on the practical management of diabetes mellitus in cats. J Feline Med Surg. 2015;17(3):235-250.
5. Brooks et al. AAHA weight management guidelines for dogs and cats J Am Anim Hosp Assoc. 2014;1-11.
6. German. Weight management in obese pets: The tailoring concept and how it can improve results. Acta Vet Scand. 2016;58(1):3-9.

7. German et al. Long-term follow-up after weight management in obese dogs: The role of diet in preventing regain. Vet J. 2012;192(1):65-70.
8. Deagle et al. Long-term follow-up after weight management in obese cats. J Nutr Sci. 2014;3:e25.
9. German. Obesity prevention and weight maintenance after loss. Vet Clin North Am Small Anim Pract. 2016;46(5):913-929.
10. Nguyen et al. Glycemic and insulinemic responses after ingestion of commercial foods in healthy dogs: influence of food composition. J Nutr. 1998;128(12 Suppl):2654S-2658S.
11. Hewson-Hughes et al. The effect of dietary starch level on postprandial glucose and insulin concentrations in cats and dogs. Br J Nutr. 2011;106(S1):S105-S109.
12. Frank et al. Use of a high protein diet in the management of feline diabetes mellitus. Vet Ther. 2001;2(3):238-246.

13. Marshall and Rand. Insulin glargine and a high protein - low carbohydrate diet are associated with high remission rates in newly diagnosed diabetic cats. ACVIM. 2004;52:401.
14. Bennett et al. Comparison of a low carbohydrate-low fiber diet and a moderate carbohydrate-high fiber diet in the management of feline diabetes mellitus. J Feline Med Surg. 2006;8:73-84.
15. Weaver et al. Use of glargine and lente insulins in cats with diabetes mellitus. J Vet Intern Med. 2006;234-238.
16. Wakshlag et al. Effect of dietary protein on lean body wasting in dogs: Correlation between loss of lean mass and markers of proteasome-dependent proteolysis. J Anim Physiol a Anim Nutr 2004;87 (11-12):408-420.
17. Graham et al. Canned high fiber diet and postprandial glycemia in dogs with naturally occurring diabetes mellitus. J Nutr. 1994;124:2712S-2715S.



GUIDE TO NUTRITIONAL MANAGEMENT OF DIABETES MELLITUS IN CATS AND DOGS

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PET - NEWLY DIAGNOSED/NOT YET STABILIZED DIABETES MELLITUS (DM)

✓ Initiate Insulin & assess blood glucose (BG)

i Diabetic patients must be **regularly monitored** for control of clinical signs and change in body weight. Any change in diet or in caloric allocation may influence **glycemic control** and requires assessment of **insulin** and blood **glucose**.

