



# Renal Diet for cats



Contact Us For More Information - +91 88000 18535, +91 88000 18539,  
Email – [Info@vetexpert.in](mailto:Info@vetexpert.in), [www.vetplanet.vet](http://www.vetplanet.vet)

## Kidney diseases in cats - risk factors



**Age:** 1-50% of the cat population and about 35% of geriatric cats - CRF



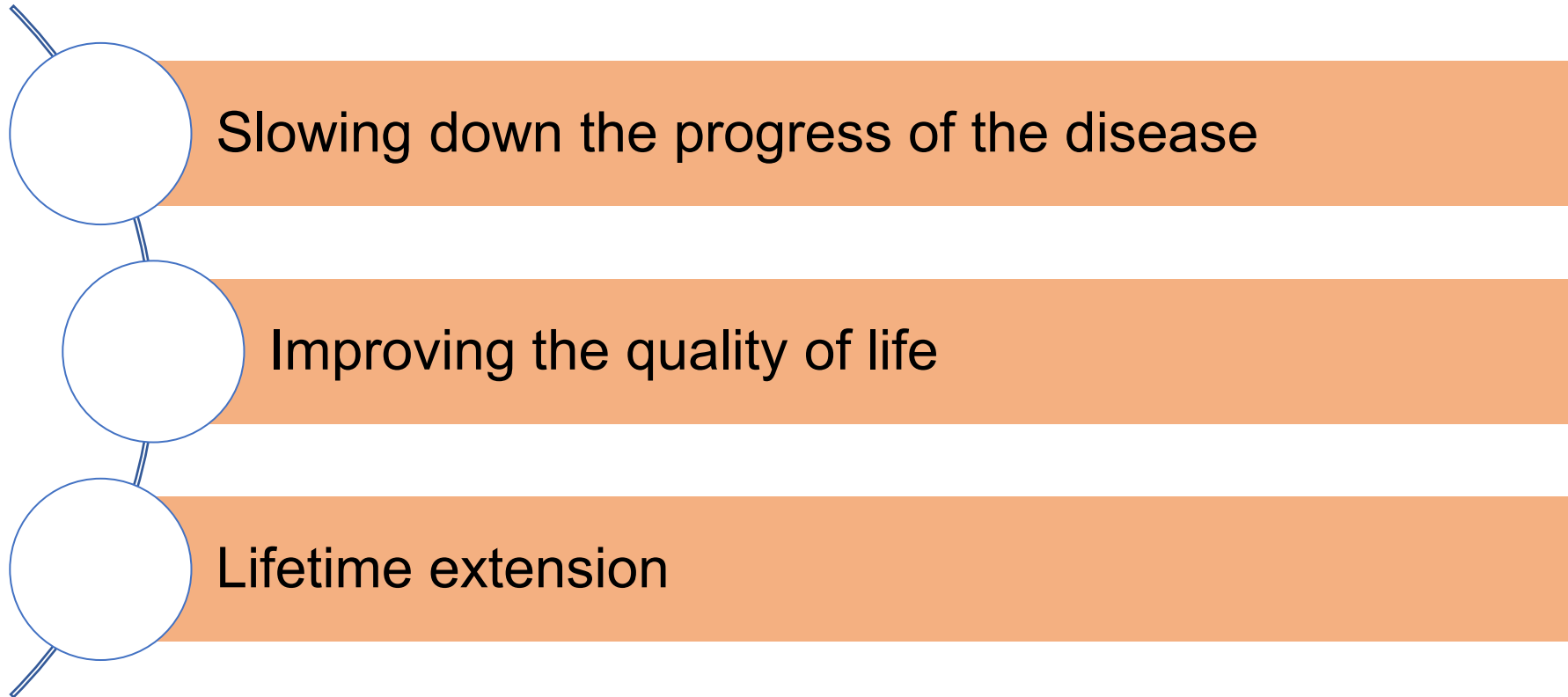
**Breed:** Main Coon, Abessinian, Siamese, Persian, Russian Blue, Burmese



**Other:** infectious diseases (including periodontal diseases), infectious, metabolic, endocrine, incorrect diet (high phosphorus?), environmental conditions

# Chronic incurable disease

- Therapy aims at:





# Regulations on the 'kidney' diet

## REGULATION

COMMISSION REGULATION (EU) 2020/354

of 4 March 2020

Establishing a list of intended uses of feed intended for particular nutritional purposes and repealing Directive 2008/38/EC

<p>High quality proteins and phosphorus &lt; 6.5g/kg of complete feedingstuff with a moisture content of 12% and protein crude &lt; 320g/kg of complete feedingstuff with a moisture content of 12%</p>	<p>Cats</p>	<ul style="list-style-type: none"><li>-- Sources of protein</li><li>-- Calcium</li><li>-- Phosphorus</li><li>-- Potassium</li><li>-- Sodium</li><li>-- Essential fatty acids (if added)</li></ul>
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# Characteristics of the Renal diet

Diet with limited phosphorus content (0.16% d.m.) - regulation of calcium-phosphate metabolism, reduction of the risk of secondary hyperthyroidism

Omega-3 acids from salmon oil (0.5%): inhibiting inflammatory reactions

High calorific value (112kcal) combined with animal protein (26% chicken; 23% beef): maintaining optimal condition

The diet is a gluten-free diet; the source of carbohydrates is easily digestible rice (6%)





# Characteristics of the Renal diet

Analitical components	g/100g of feed	% DM	for 1000 kcal ME
Crude protein	8	33,33	71,0
Crude fat	7,5	31,25	66,5
Crude ash	2	8,33	17,7
Crude fiber	0,5	2,08,	4,4
Carbohydrates	6	25,00	53,2
Moisture	76		
Ca	0,2	0,83	1,8
P	0,16	0,67	1,4
Na	0,16	0,67	1,4
K	0,29	1,21	2,6
Omega-3 fatty acids	0,2	0,83	1,8
Omega-6 fatty acids	0,8	3,33	7,1
Energy (kcal/100g)	112,75		1000,0



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# IRIS Recommendations on the use of "kidney" diet

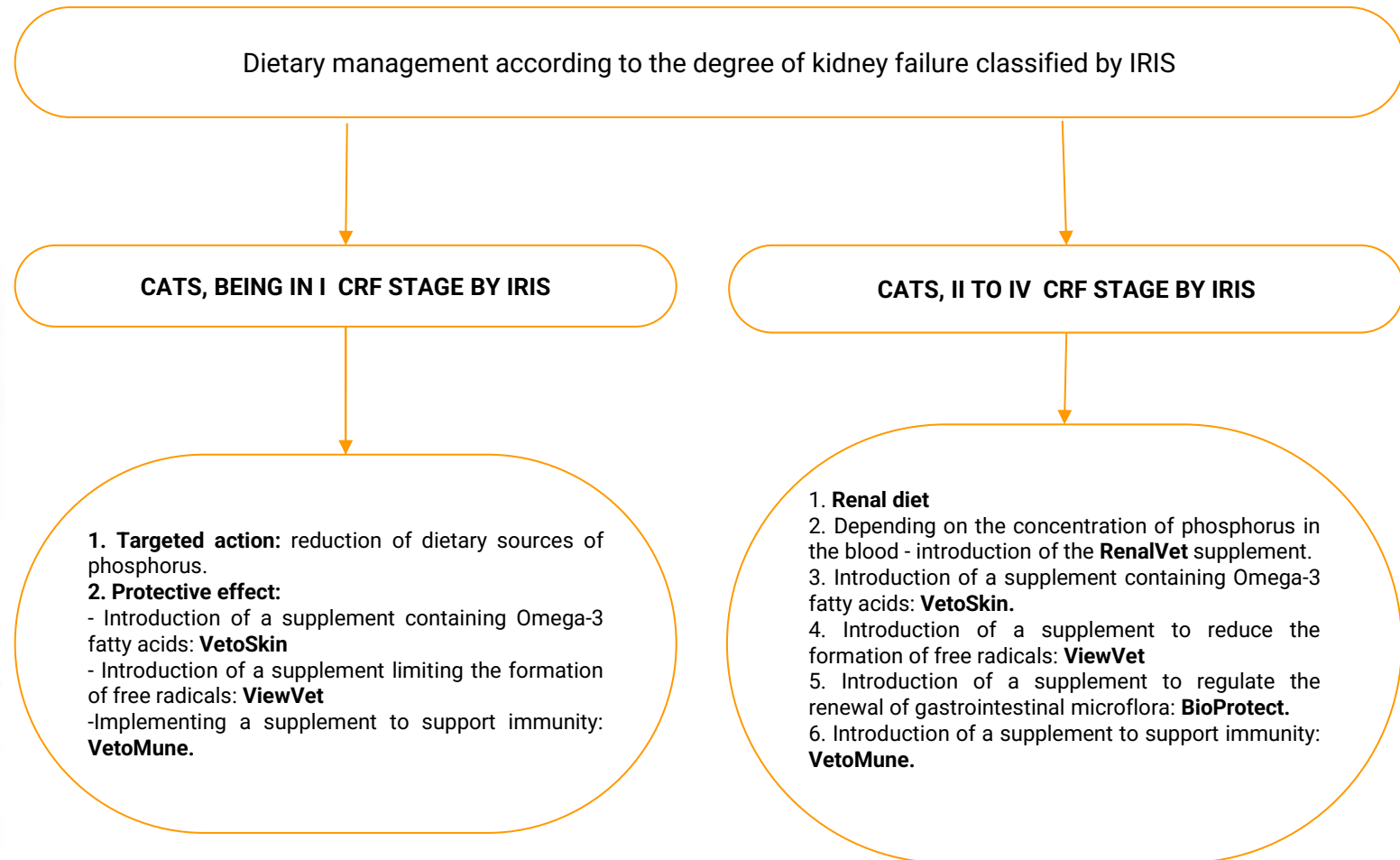


					
		Stage 1 No azotemia (Normal creatinine)	Stage 2 Mild azotemia (Normal or mildly elevated creatinine)	Stage 3 Moderate azotemia	Stage 4 Severe azotemia
<b>Creatinine in mg/dL</b> Stage based on stable creatinine	Canine	Less than 1.4 (125 μmol/L)	1.4–2.8 (125–250 μmol/L)	2.9–5.0 (251–440 μmol/L)	Greater than 5.0 (440 μmol/L)
	Feline	Less than 1.6 (140 μmol/L)	1.6–2.8 (140–250 μmol/L)	2.9–5.0 (251–440 μmol/L)	Greater than 5.0 (440 μmol/L)
<b>SDMA* in μg/dL</b> Stage based on stable SDMA	Canine	Less than 18	18–35	36–54	Greater than 54
	Feline	Less than 18	18–25	26–38	Greater than 38
<b>UPC ratio</b> Substage based on proteinuria	Canine	Nonproteinuric <0.2	Borderline proteinuric 0.2–0.5	Proteinuric >0.5	
	Feline	Nonproteinuric <0.2	Borderline proteinuric 0.2–0.4	Proteinuric >0.4	
<b>Systolic blood pressure in mm Hg</b> Substage based on blood pressure			Normotensive <140	Prehypertensive 140–159	
			Hypertensive 160–179	Severely hypertensive ≥180	



Stages 2 to 4 - recommendation: diet adapted to the needs of a sick cat - Renal diet

# Dietary management





**Thank you for your attention.**

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