Chronic Kidney Disease

Most common renal disease in cats
1/3 all cats >15 years
Progressive disease

Goals:

Minimize clinical signs - Uremia
Minimize
Nutrition and Hydration
Improve Quality of Life, especially stage 3 and 4 (QOL)
Modify progression stage 2 and 3

1. Hydration:

Especially important in stage 3 and 4
QOL, Electro, Acid-base, Renal Blood Flow
Hospitalize and IV fluids
Owner Education: Long term
1. Increase water intake
2. Subcutaneous

2. Diet:

Restrict Prtein, Phos. Na
Increase Caloric Density
Diet for Stages 2-4; Creatine >1.4 or >1.6

3. Manage Phos and Ca

Diet
Progression:
AlOH 50mg/kg BID - can mix in food

4. Manage Potassium

Hypokalemia - Lethargy, poor appetite, constipation, weak muscles
Supplement ≤ 3.5
Renal diet are already

5. Manage Blood Pressure

Systemic Hypertension
Organs targeted: Eyes, heart, cerebrovascular tone, kidney
Hypertension associated with proteinuria
Amlodipine: Dog: 0.1-0.5mg/kg SID; Cat: <4kg ¼ 2.5mg Tab, >4kg ½ 2.5mg tab
Telmisartine: Dog and Cat 1mg/kg SID (proteinuria too)

6. Manage Proteinuria

Urine Protein: Creatinine
Tx when >0.4 some >0.2
Benazepril Dog: 0.25-0.5mg/kg SID-BID; Cats 0.5-1.0mg/kg SID-BID
Renal Diet

7. Manage Anemia

Mild or rarely Regenerative anemia
PCV ≤20%; Maintain ≥25%
Iron supplement maybe needed
Darbepoetin: 1mg/kg SQ weekly until ≥25%, then q2-3w
Iron Dextran: 50mg/cat monthly

8. Urinary Tract Infections:

Monitor clinical signs and/or pyuria (≥5 WBC/hpf
Start Abtherapy while waiting results: Amoxicillin 11-15mg/kg TID

9. Manage Clinical Signs

Nausea, Vomiting, Inappetance
Maropitant: 2mg/kg SID ↓ vomiting
Mirtazapine: 1.88mg/cat q48h ↓ vomiting, ↑ appetite

Poor Oral Therapy Response
Esophagostomy Tube - Diet, Hydration, Drug Administration

IRIS Stages (Criteria)

Stage 1	Dog	Cat
Creatinine	<1.4	<1.6
SDMA (Positive)	>14	>14
Proteinuria	>0.5	>0.4
Blood Pressure	<150	Normal
	150-159	Borderline Hyperte
	160-179	Hypertensive
	>180	Severely

Stage 2		
Creatinine	1.4-2.0	1.6-2.8
SDMA	>25	>25

Stage 3		
Creatinine	2.1-5.0	2.9-5.0
SDMA	>45	>45

Stage 4		
Creatinine	>5.0	>5.0
SDMA	>14	>14