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MWI® Animal Health
AmerisourceBergen

Have you handled the collateral effects of kidney failure in your patient?

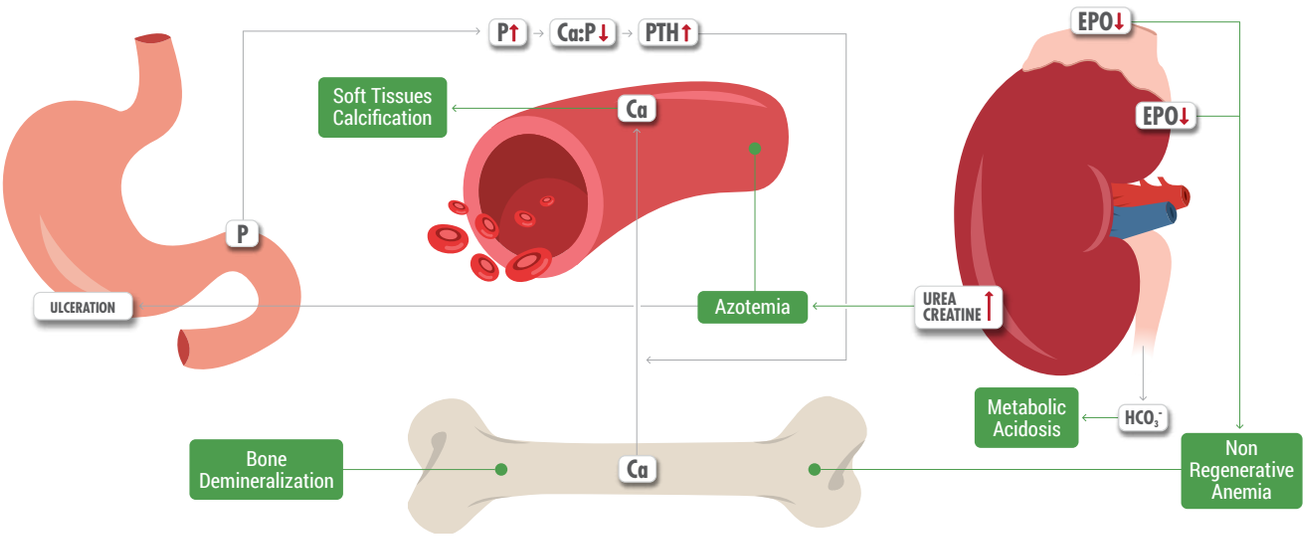
Signs of kidney failure are only revealed after a significant amount of kidney tissue is already impaired. By then your patient's body has already been compromised by several metabolic consequences. However there is still time to initiate Plan **B**.

Aventi Kidney Complete is an all-in-one & easy-to-give supplement consisting of a comprehensive formulation

- **Binders of phosphate**, safe & effective: calcium carbonate, calcium lactate gluconate, chitosan
- **Buffer** of metabolic acidosis recommended by IRIS*: sodium bicarbonate
- **Blood cleansers**—prebiotics & probiotics known to metabolize uremic toxins containing nitrogen: FOS, Lactobacillus acidophilus, Lactobacillus plantarum
- **Blood builders:** B & C vitamins known to contribute to red blood cell metabolism
- **Body antioxidant** support: chitosan, vitamin C, olive oil extract

* International Renal Interest Society

What are the major collateral effects of the impairment of the kidney function on the patient's body?



A failing kidney is not able to properly excrete phosphate (P) as it is absorbed by the intestine resulting in **hyperphosphatemia**. This causes a phosphate and calcium (Ca) imbalance with an increase in phosphate triggering a response aimed at increasing blood calcium levels. For that purpose, the parathyroid hormone (PTH) is produced by the parathyroid gland, triggering the break down of bone tissue. This results in **bone demineralization** and the accumulation of excess calcium in the blood eventually leads to **soft tissue calcification**[1] that causes further damage to the kidneys as well as the adrenal glands. This impedes the production of erythropoietin (EPO) leading to **non-regenerative anemia**[2]. As kidney function is failing, reabsorption of bicarbonate ions (HCO_3^-) from the urine is impaired resulting in **metabolic acidosis**[3]. In addition, the loss of the excretory capacity of the kidneys results in **azotemia**, ultimately causing nausea, vomiting and diarrhea.

8 studies conducted on a total of 160 patients with CKD stages 3 – 4 and up to 360 days of Aventi Kidney Complete administration showed a decrease in phosphatemia, metabolic acidosis, blood creatinine level & UPC ratio. No hypercalcemia was reported at the end of administration periods and improved Body Condition Score was shown. Pet owners described very good palatability and no adverse effects[4].

Presentations:

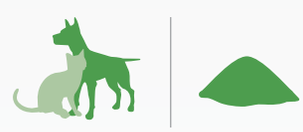
- Powder in jars of 3.2 oz. & 10.5 oz.
  0.6 g & 2.4 g scoops are both supplied with each jar

Daily administration:

- 1 small scoop (0.6 g) per 2.5 kg / 5.5 lbs.
- 1 large scoop (2.4 g) per 10 kg / 22 lbs.

Ingredients per 0.6 g scoop:

Calcium carbonate	156 mg
Calcium lactate gluconate	96 mg
Chitosan	48 mg
Sodium bicarbonate	36 mg
Fructo-oligosaccharides (FOS)	120 mg
Lactobacillus acidophilus	180 million CFU
Lactobacillus plantarum	60 million CFU
Vitamin B6	3 mg
Vitamin B9	1.20 g
Vitamin B12	0.06 mg
Vitamin C	30 mg
Olive oil extract	12 mg



1 Chew DJ et al. Prolonging life and kidney function. 2007 WSAVA Congress Proceedings, **2** Polzin DJ et al. Chronic kidney disease in small animals. Vet Clin Small Anim 2011;41:15-30, **3** Chen W et al. Metabolic acidosis and the progression of chronic kidney disease. BMC Nephrology 2014;15:55, **4** Data on file

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