

**EFFICACY OF SUPPLEMENTARY FOOD ON DOGS IN
ADVANCED STAGE OF CHRONIC RENAL FAILURE**

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ABSTRACT

The scope of the work was to evaluate the effectiveness of a supplement feed containing calcium carbonate, calcium lactate gluconate, chitosan and sodium bicarbonate in order to correct the hyperphosphatemia and the metabolic acidosis in dogs affected by CRF in stage IRIS 3. 20 dogs (average weight 20.1 ± 10.3 kg; mean BCS 2.7 ± 0.7 ; average age 10.4 ± 2.3) were included in the study. The animals were examined and subjected to haematochemical, biochemical and urinary tests on days 0, 15, 30, 60, 90, 120, 150, 180. The serum phosphorus was significantly lower in group T compared to group C at days 30 ($P < 0.0001$), 60 ($P < 0.0001$), 90 ($P < 0.0001$), 120 ($P < 0.0001$), 150 ($P = 0.0002$) and 180 ($P < 0.0001$). The ionized calcium was, however, significantly higher in group T compared to group C at days 120 ($P < 0.01$), 150 ($P = 0.0002$) and 180 ($P = 0.0003$).

The tested supplement feed is effective in reducing phosphorus blood and increasing the serum bicarbonate, thus improve the clinical condition of the dogs without any adverse reaction.