The clinical and laboratorial evolution of renal failure in a 3 years old, male Persian feline, submitted to homeopathic treatment is related. The animal had shown sporadic emesis for the previous 3 months with progressive evolution to daily episodes, with anorexia, polydipsia, polyuria, thinning and apathy. On the physical exam it was observed dehydration, hypothermia and epigastric pain. Laboratorial exams showed increase of creatinine, urea and packed erythrocytes. Ultrasonographic examination indicated thick, hyperechoic renal cortex, poorly defined cortico-medular transition, and gastric wall thickened. The cat was treated with individualized homeopathic medicine (Phosphorus 12CH) and biotherapic of Kidney 12CH and presented remission of clinical signs and laboratorial abnormalities. Renal failure is a common disease on small animal veterinary practice and the homeopathic treatment is a plausible therapy to be used.