Short Title	Mechanism of Renal Phosphate Transport
Study Number	092010-178
Study Title	Molecular Mechanism of Renal Phosphate Transport in Human Health and Disease
Disease/Condition Under Study	Kidney Stones
Brief Description of Study	The objective of this study is to examine how phosphate is transported by the kidney. This study requires 8 brief outpatient visits and 2 extended outpatient visits.
Participant Eligibility	Normal Volunteers
	Age: 21-60 years
	BMI > 18.5 kg/m^2 BMI < 29.5 kg/m^2
	Excluded: kidney disease, serum creatinine > 1.4 mg/dl, proteinuria, recurrent kidney stones, hypo/hypercalcemia, hypo/hyperphosphatemia; Endocrine disorders including diabetes, hyper/hypoparathyroidism, thyroid hormone imbalances, acromegaly, Addison's and Cushing's diseases, bone disease or history of non-traumatic fractures, Gastrointestinal diseases, including acute and chronic diarrhea, disorders or conditions associated with malabsorption, liver disease; Use of laxatives, diuretics, or drugs that may affect phosphate homeostasis, dietary supplements containing phosphate, calcium, vitamin D, or any supplements of unknown composition, pregnancy, lactation and menopause; Recreational drug use, ethanol consumption more than one drink per day, and smoking.
Study Drug	• Sevelamer Carbonate • K-Phos Phosphorus Supplement
Study Doctor	Ion Alexandru Bobulescu, MD
Location	Mineral Metabolism Sprague Research Center Clinical and Translational Research Center
Contact Name	Carolyn Griffith, MD
Contact Phone	214-648-6494
Contact E-mail	Carolyn.Griffith@UTSouthwestern.edu