VITAMIN D DEFICIENCY

Effect of Vitamin D deficiency and replacement on endothelial dysfunction And endothelial miRNA expression profile

- **Vit D** deficiency is common worldwide and found to have a role in diabetes, heart disease, hypertension, cancer and autoimmune diseases.
- **Vit D** also has an important role in bone health as well as the health and function of blood vessel linings.

You are invited to participate in a research study that will examine the effect of Vit D supplementation on cardiovascular disease and cells that line blood vessels.

- To enroll in the study you must have low **Vitamin D** levels in your body.
- Once you are enrolled the physician will test the ability of your blood vessels to dilate (expand) by placing a small sensor over two fingers. With the sensors in place, a cuff will be inflated and then deflated on the upper arm. The sensor will measure blood vessel function during this time.
- After the sensor test, the staff will obtain a sample of cells lining the blood vessels.
- This test will be repeated in 3-6 months after you have taken a **Vit D** supplement.

For information about this Vitamin D Deficiency study, please contact Dr. Tariq Rehman/nephrology at (304) 526-2532, Dr. Abid Yaqub/endocrinology at (304)691-1095, or the principal investigator Eric Blough, PhD at (304) 696-2708