Dear Colleagues,

The Radiology Ultrasound Team at UTHSCSA, MARC & RB Green Center is pleased to offer pertinent Doppler & ultrasound services. These diagnostic studies will add valuable information when managing your patients’ care:

1. Renal Doppler
2. Liver Doppler

RENAL DOPPLER INDICATIONS

1. **Hypertension**, particularly when there is a moderate to high suspicion of renovascular hypertension
   - Uncontrolled hypertension despite optimal therapy
   - Hypertension with progressive decline in renal function
   - Progressive decline in renal function associated with ACE inhibition therapy
   - Abrupt onset of hypertension
2. Follow-up of patients with known **renovascular disease** who have undergone:
   - Renal artery stents placement
   - Renal artery intervention
   - Or known **unilateral stenosis** concerning for stenosis in contralateral kidney
3. Suspected **vascular abnormality**
   - Aneurysm
   - Pseudoaneurysm
   - Arteriovenous malformation
   - Arteriovenous fistula
4. **Renal insufficiency** in patients at risk for renovascular disease
5. Evaluation of **renal artery blood flow** in patients with
   - Known **aortic dissection**
   - **Trauma**
   - Other **abnormalities** that may compromise blood flow to the kidneys
6. Evaluation of **discrepant renal size**
7. Concern for **thrombus at aortic or renal artery orifice** in infants who have or have had an aortic catheter, e.g., umbilical artery catheter
8. **Abdominal or flank bruit**

LIVER DOPPLER INDICATIONS

- Cirrhosis
- Portal hypertension
- Portal vein thrombosis
- Hepatic arterial aneurysms
- Hepatic artery stenosis
- AV fistulas in liver
- Hepatic veins thrombosis or IVC thrombosis (Budd-Chiari syndrome)
- Esophageal varices & Portosystemic collaterals
- Abnormal liver function tests from suspected underlying vascular abnormalities
- Vascular abnormalities causing liver disease
- Splenomegaly

**Contraindications**: No absolute contraindications