

# HEALTH SCIENCE CENTER SAN ANTONIO

## **Department of Radiology**

## Dear Colleagues,

The Radiology Ultrasound Team at UTHSCSA, MARC & RB Green Center is pleased 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 malformationArteriovenous 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