



## **Austin Radiological Association**

### **Interventional Fluoro Procedure**

#### **Transjugular Liver Biopsy With Portal Pressures**

##### **Overview**

- Obtain liver tissue specimens
- The use of fluoroscopic systems for interventional purposes is restricted to radiologists and individuals to whom a physician has delegated authority pursuant to the Occupations Code, Chapter 601, and the applicable rules of the Texas Medical Board.

##### **Indications**

- Coagulopathies
- Massive ascites
- Chronic liver disease

##### **Examination Time**

- 180 minutes

##### **Patient Preparation**

- Labs completed in house the day of procedure
- Nothing to eat or drink 4 hours before procedure
- Stop blood thinners 5 days before procedure
- Obtain informed consent
- Question for allergies

##### **Equipment**

- Siemens C-arm
- Sterile pack

- Omnipaque 350
- Various catheters and wires
- Power injector
- SonoSite
- Transjugular liver biopsy kit

### **Patient Position & Imaging Field**

- Supine

### **Acquisition Protocol - Routine Study**

- Radiologist performs fluoroscopy and acquires images

### **Data Processing**

- Technologist will send images taken to PACS (Picture Archiving and Communication System).
- Technologist will enter exposure time in the appropriate field of RIS (Radiology Information System).
- Technologist will enter DAP (Dose Area Product) and SEE (Skin Entrance Exposure) into the technologist notes field of the RIS.

### **Radiation Exposure levels**

- Recommended operator guidance reference level for this fluoroscopically-guided interventional procedure is 90 minutes beam-on time. Threshold reference level is a SEE of 5 Gy (Gray).
- Radiation Exposure levels are monitored through the Austin Radiological Association's monthly technologist QA process.
- If the reference level is exceeded, further analysis will be performed by the Protocol Committee and appropriate action taken to include possible patient follow-up.

### **Protocol Review**

- Not to exceed 14 months.