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.

Reviewed and Revised: September 21, 2023