Austin Radiological Association

Interventional Fluoro Procedure

Transjugular Liver Biopsy with Portal Pressures

Overview

- Obtain liver tissue specimens and evaluate for portal hypertension

- 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

- Suspected portal hypertension

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 December 20, 2024