Austin Radiological Association
Interventional Fluoro Procedure

Radioembolization (Y90)

Overview

• Treat liver cancer

• 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

• Liver cancer

Examination Time

• 2 hours

Patient Preparation

• Labs completed within one month 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 300

• Various catheters and wires
• Power injector
• Yttrium-90 calculated dose
• Therasphere delivery apparatus

**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.