



**Austin Radiological Association**  
**Interventional Fluoro Procedure**  
**Lumbar Puncture**

**Overview**

- To collect a sample of Cerebral Spinal Fluid (CSF), administer medications, or relieve increased intracranial pressure.
- 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**

- To collect CSF for analysis or to administer certain medications for treatments

**Examination Time**

- 60 minutes

**Patient Preparation**

- Stop blood thinners 5 days before procedure
- Obtain informed consent
- Question for allergies

**Equipment**

- Siemens C-arm
- Omnipaque 240

**Patient Position & Imaging Field**

- Prone

### **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 60 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 January 26, 2024