

I. Equipment

- a. Myelogram tray (site dependent)
- b. Luer lock syringes (10ml, 20ml)
- c. 25g 1.5" needle
- d. 22g spinal needle, 3.5 or 5 inch depending on patient's size.
- e. Hemostat (non-sterile)
- f. Marking pen
- g. Sterile gloves
- h. Mask
- i. [Myelogram Handoff Instructions & Technologist Lumbar Puncture/ Myelogram Questionnaire](#)

II. Medications (contrast limits= *adults only*)

- a. Lidocaine 1%
- b. Isovue-M 200 (*max 15mL*), Isovue-M 300/ Omnipaque 300 (*max 10mL*), Omnipaque 240 (*max 12.5mL*)

III. Personnel

a. Radiologist, RA

- i. Place pre and post procedure orders (site specific)
- ii. Verify laboratory data is within the acceptable range (inpatients only)
 - 1. INR <1.5, Platelets >50,000
- iii. Obtain consent from the patient prior to positioning or changing for the procedure
- iv. Performs the procedure (RPA/RRA may perform the lumbar puncture portion of the exam, radiologist must administer contrast.)

b. Radiology RNs or Technologists (site specific)

- i. Performs pre-procedure call to check if the patient is on anticoagulation or has a contrast allergy.
 - 1. Follow RIA *Anticoagulation Guidelines & Myelogram Guidelines* re: seizure medications
 - 2. Myelograms are contraindicated for patients with an iodinated contrast allergy

c. Technologist

- i. Review order with radiologist/RA
- ii. Verify PLT & INR within normal limits (inpatients only)
- iii. Complete [Technologist Lumbar Puncture/ Myelogram Questionnaire](#)
- iv. Setup myelogram tray
- v. Assists the rad/RA during the procedure
- vi. Fills out [Myelogram Handoff Instructions](#) and delivers to CT technologist during patient handoff

IV. Procedure

- a. Patient prone on table
- b. Mark puncture site and perform exam under fluoroscopy guidance (mask)
- c. Lower back prepped and draped in sterile fashion
- d. Skin is anesthetized with subcutaneous injection of 1% lidocaine.
- e. Contrast injection (*radiologist only*)
- f. Needle is removed with stylet in place
- g. Patient rolled and taken to CT (follow [Handoff Instructions](#))

V. Required Images

- a. AP spot images are obtain to show contrast within the thecal sac

VI. Special Considerations

a. Cervical Myelogram

- i. Shoulder braces in place for Trendelenburg positioning (tech positioned at pt's head)

Name	Nancy Benedetti, MD
Title	Neuroradiologist
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