

I. **Equipment** (May vary between sites) (mL's based on hip arthrogram - adjust appropriately according to anatomy)

- a. Contrast - Isovue 300/ Omnipaque 240
- b. 1% lidocaine (10ml's)
- c. **Preservative free** sterile saline (10ml's)
- d. Sterile tray
 - i. Sterile Mayo Stand Cover
 - ii. Syringes - (20mL), (10mL), (2(5mL)),
 - iii. Needles – (25G and 18G)1.5", (22G 3.5")
 - iv. Chlor Prep
 - v. Drapes- Tower drape x 2, Patient drape with hole
 - vi. 4x4 gauze
 - vii. Extension tubing
- e. Sharpie and hemostat
- f. 2" tape to move any excess tissue/ Panniculus
- g. Band-Aid
- h. Mask

II. **Personnel**

- a. Radiologist/RA
 - i. Verifies order
 - ii. Obtains patient consent (ask about dental visits, infection, antibiotics)
 - iii. Performs exam and evaluates patient's pain level following injection
- b. Hospital Technologist
 - i. Prints order and relevant notes for radiologist/RA review
 - ii. Documents patient history and pregnancy status prior to exam
 - iii. Performs time out
 - iv. Assists the radiologist or fluoroscopy technologist during procedure
 - v. Patient care during injection
 - vi. Provides patient with aftercare instructions and escorts patient to CT

III. **Procedure**

- a. Physician extenders must review all **INPATIENT** arthrogram requests with an MSK radiologist
 - i. Please review any pertinent prior imaging
 - ii. Use the call center to connect with an available MSK rad (720-493-3777)
- b. Consent
- c. Time out
- d. Identify and mark the injection site using fluoroscopy (**Mask**)
- e. Prepare the injection site using aseptic technique
- f. Local anesthetic
- g. Needle placement (do not aspirate)
 - i. If purulent fluid spontaneously flows back from the needle hub, aspirate, and consult an MSK radiologist
- h. Inject 1-2mL's Isovue/Omnipaque to confirm intraarticular needle placement (SAVE IMAGE)
- i. Inject contrast/saline (50:50) (1-2mL's of saline may be substituted with 1% lidocaine)
- j. If anesthetic is administered with contrast, obtain pre and post-injection pain scores.
- k. Reserve drafted dictation for the consulted MSK radiologist

IV. **Required Images**

- a. Save image with contrast

V. **Special Considerations**

- a. Follow contrast allergy protocol
- b. Contraindications- Dental visit 3 days prior to injection, feeling ill or having a known infection, currently antibiotics (see Joint Injection/ Arthrogram Technologist Pre-Call Questions)

Approved by:	Gregory Czuczman, M.D.
Role:	Musculoskeletal Radiologist