

- I. **Equipment** (May vary between sites) (mL's based on hip arthrogram - adjust appropriately according to anatomy)
- a. Contrast
 - i. Isovue 300/ Omnipaque 240
 - ii. Gadolinium (MRI to provide)
 - b. 1% lidocaine (10ml's)
 - c. **Preservative free** sterile saline (10ml's)
 - d. Sterile tray
 - i. Sterile Mayo Stand Cover
 - ii. Syringes - (20mL), (10mL), (5mL), (1mL)
 - iii. Needles - (25G and 18G)1.5", (22G 3.5")
 - iv. Chloro 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. Reviews order
 - ii. Responsible for obtaining consent (ask about dental visits, infection, & antibiotics)
 - iii. Performs exam and evaluates patient's pain level following injection
 - b. Hospital Technologist
 - i. Prints order for radiologist/RA review
 - ii. Documents patient history and pregnancy status prior to exam
 - iii. Assists the radiologist or physician extender during procedure
 - iv. Provides patient with aftercare instructions and transports patient to MRI

- III. **Procedure**
- a. Physician extenders must review all **INPATIENT** arthrogram requests with an MSK radiologist
 - i. Please review any pertinent prior imaging
 - ii. Please 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 dilute Gad/Saline mix (1:200) (0.1mL gad in 20mL saline) (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. Record pain score after MRI
 - l. 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 on antibiotics, recent Covid vac. (see *Joint Injection/ Arthrogram Technologist Pre-Call Questions*)

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