KNEE INJECTION – PROCEDURE CHECKLIST

	4 1/4	
Confirm	1. Knee osteoarthritis with insufficient response to PT and NSAIDs	
Indication	2. Aseptic inflammatory arthritis	
	** For viscosupplements: only indicated for OA and only after failed response to CSI	
Consider	1. Hardware in the joint	
	2. Infection in overlying skin, joint or peri-articular structures	
Contraindications	3. Potential knee surgery in <3 months	
	4. Prior inadequate response (<1mo benefit) to CSI	
Obtain Consent	Explain in simple terms & confirm patient's understanding:	
	1. Procedural process	
	2. Risks & techniques to mitigate them	
	3. Potential benefits	
	4. Risks of not performing & alternatives.	
Organize Supplies	See reverse side for details	
Draw-up solutions	1. Clean each vial alcohol swab (if sterile cap was previously removed)	
	2. Using the larger needle aspirate ~2cc of lidocaine, then 1cc of triamcinolone or	
	methylprednisolone	
Positioning	Superior-lateral approach	
	Supine with knee fully extended or slightly hyper-extended	
	Quadricep relaxed, patella mobile	
	Anterior (medial or lateral) approach	
	 Sitting upright with foreleg dangling from chair/bed with knee ~90 degrees 	
Identify Entry Site	Superior-lateral approach	
	Draw straight lines along the superior and lateral margins of the patella and	
	mark the point where the lines bisect as the insertion point.	
	Anterior (medial or lateral) approach	
	Identify and mark the inferior-medial/lateral border of the patella and patella	
	tendon, then superior margin of tibial plateau.	
	 Identify insertion point ~1cm superior to tibial plateau and ~1cm medial/lateral 	
	to patella tendon.	
Timeout	Confirm name, DOB, procedure, location, allergies	
	1. Apply chlorhexidine using scrub/friction >30sec or providone-iodine and allow to	
Sterile Prep	dry.	
	2. Maintain sterile site with 'no-touch' technique	
Local anesthetic	Apply ethyl chloride spray for 5-10 seconds or until skin turns white. (optional)	
Local allestifetic	1. Insert quickly through the skin at the marked insertion point to a depth of 2-4cm	
Needle Insertion	Superior-lateral direction	
	Advance needle under the patella, parallel to the floor, perpendicular to femur. Antonian (modified an letteral) direction.	
	Anterior (medial or lateral) direction	
	Advance needle parallel to the floor and directed towards the center of the Advance needle parallel to the floor and directed towards the center of the Advance needle parallel to the floor and directed towards the center of the Advance needle parallel to the floor and directed towards the center of the	
	joint, ~45deg medial/lateral.	
	2. Attempt aspiration prior to injection of needle.	
Extraction	Obtain hemostasis and apply band-aid	





KNEE INJECTION – PROCEDURE CHECKLIST

Supplies			
Marker Alcohol swab Lidocaine 1% (5cc) Triamcinolone or Methylprednisilone 40mg/ml (1cc) 5-10cc syringe 18-21g needle (for drawing up)	21-25g 1.5" needle (for injecting) Chlorhexidine (or providone-iodine swab) 2x2 gauze Band-aid Ethyl chloride spray (optional)		

References

McNabb, J. W. (2014). A Practical Guide to Joint & Soft Tissue Injections. United States: Wolters Kluwer Health.

AAOS. (2018). Essentials of Musculoskeletal Care. United States: Jones & Bartlett Learning, LLC.