

Supplemental Data

Supplemental Table 1: Recommended activity and volume of radiopharmaceuticals per joint

Joint	[⁹⁰ Y]Y-citrate (MBq)	[¹⁸⁶ Re]Re-sulfide (MBq)	Volume (mL)
Knee	148-278	N/A	3.0
Hip	185	111-185	3.0
Shoulder	93	74-111	3.0
Elbow	93	56-93	1.0-2.0
Wrist	N/A	37-74	1.0-1.5
Ankle	74	74	1.0-1.5

Abbreviations: N/A: not applicable.

Supplemental Table 2: Volume of methylprednisolone acetate 40 mg/mL injected per joint during the radiosynoviorthesis

Joint	Volume of methylprednisolone acetate (mL)
Knee	0.5-1.0
Hip	0.5-1.0
Shoulder	0.5-1.0
Elbow	0.5
Wrist	0.5
Ankle	0.5

Supplemental Table 3: Detailed AEs (*n* = 55)

AE (joint)	Onset	Grade	Related to radiosynoviorthesis	Treatment	Resolution
Joint reaction					
Inflamed (knee)	Immediate	Mild	Not related	N/M	Resolved
Pain (knee)	4 days	Moderate	Possibly related	N/M	Resolved
Pain (knee)	4 days	Moderate	Possibly related	N/M	Resolved
Pain (knee)	4 days	Unknown	Unknown	N/M	Unknown
Pain (knee)	4 days	Mild	Not related	N/M	Unknown
Pain (knee)	4 days	Moderate	Related	No treatment	Unknown
Pain (knee)	4 days	Mild	Related	Ice	Resolved
Pain (knee)	4 days	Mild	Related	No treatment	Resolved
Inflamed (knee)	4 days	Mild	Not related	N/M	Unknown
Inflamed (knee)	4 days	Severe	Related	N/M	Unknown
Inflamed (knee)	4 days	Severe	Related	N/M	Unknown
Inflamed (knee)	4 days	Mild	Related	No treatment	Resolved
Inflamed (knee)	4 days	Mild	Related	No treatment	Resolved
Swelling (knee)	4 days	Moderate	Related	No treatment	Resolved
Effusion (knee)	4 days	Moderate	Related	Aspiration	Unknown
Effusion (knee)	1 week	Moderate	Not related	N/M	Resolved
Swelling (knee)	2 weeks	Moderate	Related	Aspiration, intra-articular GC, codeine PRN	Unknown
Pain (knee)	2.5 weeks	Moderate	Related	Aspiration, intra-articular GC	Resolved
Swelling (knee)	2.5 weeks	Moderate	Related	Aspiration, intra-articular GC	Unknown
Swelling (elbow)	1 month	Mild	Not related	N/M	Unknown
Inflamed (knee)	3 months	Severe	Possibly related	Aspiration, prednisone	Resolved with sequelae (decreased joint amplitude)
Swelling (knee)	3 months	Moderate	Possibly related	N/M	Unknown
Swelling (knee)	3 months	Unknown	Unknown	Intra-articular GC, voltaren and emphagel PRN	Unknown
Effusion (knee)	3 months	Unknown	Unknown	Intra-articular GC, prednisone	Resolved
Pain (knee)	6 months	Moderate	Not related	N/M	Resolved
Effusion (knee)	6 months	Severe	Not related	Aspiration, intra-articular GC	Unknown
Stiffness (ankle)	6 months	Moderate	Not related	N/M	Unknown
Septic arthritis (knee)	12 months	Severe	Not related	Irrigation and debridement	Resolved

followed by antibiotics PO/IV					
Skin reaction					
Skin hematoma (wrist)	4 days	Mild	Related	N/M	Resolved
Cutaneous necrosis (wrist)	3 months	Mild	Possibly related	N/M	Resolved
Cutaneous necrosis (wrist)	7 months	Severe	Possibly related	Irrigation, debridement, and Limberg skin flap for closure	Resolved
Skin hematoma (elbow)	12 months	Mild	Not related	N/M	Resolved
Systemic reaction					
Nausea (knee)	1 hour	Mild	Possibly related	No treatment	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (ankle)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	No treatment	Resolved
Flushing (knee)	4 days	Mild	Possibly related	No treatment	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (knee)	4 days	Unknown	Unknown	N/M	Unknown
Flushing (shoulder)	4 days	Mild	Possibly related	N/M	Resolved
Flushing (elbow)	4 days	Mild	Possibly related	No treatment	Resolved
Flushing (elbow)	4 days	Unknown	Unknown	Ibuprofen	Resolved
Flushing (elbow)	4 days	Mild	Possibly related	No treatment	Resolved
Fever and chills (knee)	4 days	Mild	Not related	N/M	Resolved
Fever and chills (knee)	4 days	Mild	Not related	N/M	Resolved
Lymphadenopathy (knee)	4 days	Unknown	Unknown	Acetaminophen	Resolved
Palpitations (knee)	4 days	Moderate	Not related	No treatment	Resolved
Lymphadenopathy (ankle)	12 months	Severe	Not related	N/M	Unknown
Medication errors (knee)	3 months	Severe	Not related	Dextrose IV	Resolved

Abbreviations: AE: adverse event, GC: glucocorticoid, IV: intravenous, N/M: non-mentioned, PO: per os, PRN: if necessary.