

✓ Harmonized

Medical Advisory Committee Approved: 220CT2019

Authorizing Prescriber(s)

Privileged Orthopedic Surgeons practicing at Lakeridge Health Ajax Pickering (LHAP)

Authorized to Whom

Orthopedic Physician Assistants (PA) who:

- Are certified Physician Assistants through the Canadian Association of Physician Assistants or National Commission on Certification of Physician Assistants
- Are currently employed within the surgical program at LHAP

Co-implementers:

- Medical Radiation Technologists- radiography (MRT) (R) employed at LHAP may coimplement this Medical Directive for those outlined in <u>Diagnostic Tests/Interventions</u> table below.
- Pharmacists at LHAP may co-implement this Medical Directive for those <u>Medications</u> outlined in the table below.

Patient Description/Population

Orthopedic patients receiving care at LHAP Shoulder Center.

Order and/or Procedure

- This medical directive includes delegation of the following controlled acts:
 - Performing a procedure on tissue below the dermis, below the surface of a mucous membrane, in or below the surface of the cornea or in or below the surfaces of the teeth.
 - Administering a substance by injection or inhalation.
- The PA will obtain a comprehensive health history and perform a shoulder focused physical assessment, select specific diagnostic investigations and/or request/perform treatment for patients outlined in this Medical Directive.
- The PA will communicate the patient's plan of care to the patient and/or substitute decision makers (SDM).
- Co-implementers: Pharmacists and MRT (R)s will co-implement this medical directive as per indications outlined in the attached tables. Co-implementers are responsible for determining if the directive/procedure is appropriate from their clinical perspective

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Lakeridge Health Page 1 of 9



Medical Advisory Committee Approved: 220CT2019

Indications to the Implementation of the Directive

- See attached <u>Medications</u>, <u>Diagnostic Tests/Interventions</u> and/or <u>Referral</u> tables for specific indications.
- Authorizing Prescriber must be available for assistance/clarification.

Contraindications to the Implementation of the Directive

- Patient that is less than 18 years of age.
- Patient and/or substitute decision maker has not provided consent for assessment, treatment and/or disclosure.
- The PA does not have the necessary knowledge, skill and judgment to perform the delegated act.
- Specific contraindications as listed in the Order Table Form.

Consent

- The PA shall not carry out any action listed within this medical directive when patient and/or substitute decision maker (SDM) refuses to consent.
- The PA will disclose to the patient the nature of the proposed treatment, its gravity, any
 material risks and any special risks relating to the specific treatment in question.
- The PA will obtain informed consent from the patient or SDM before implementing this
 medical directive for diagnostic imaging and/or medications that are prescribed. The PA
 must have the knowledge and ability to explain how and why the test will be obtained. The
 PA must be able to answer the patient and/or SDM questions or concerns pertaining to
 the implementation of this medical directive.

Documentation Requirements

The Physician Assistant will provide:

- Documentation of an implemented directive will be recorded in the order section of the patient's health record and must include:
 - Name of the Medical Directive
 - o Date
 - Name and signature of the implementer including credentials
- Documentation of the patient's history, present illness, physical assessment and plan of care within the health record.
- The PA will use their assigned dictation code to document the comprehensive health history, physical assessment, and plan of care, according to Lakeridge health dictation guidelines, for the patient's medical record.
- The PA will complete any necessary forms for the patient's occupation health assessments, functional abilities form, and return to work.

Lakeridge Health Page 2 of 9



Medical Advisory Committee Approved: 220CT2019

Review/Evaluation Process

Every 2 years by the Surgical Program

References

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Lakeridge Health Page 3 of 9



Medical Advisory Committee Approved: 220CT2019

This table must **not** be used independently apart from the Medical Directive

Order Table Form

Diagnostic Tests / Interventions

Order	Indication	Contraindication	Notes (Optional)
Shoulder X-Ray, 3 views	 Initial assessment: Shoulder pain or injury Post-operative: Shoulder pain or injury 	Pregnancy	
Shoulder Ultrasound	 Initial assessment: Assess rotator cuff tendons for tear Moderate muscle wasting Difficulty to raise arm Plain radiological findings (mild to moderate superior subluxation) indicates a rotator cuff tear MRI is contraindicated 	• None	Post-operative: The clinical value of ultrasound in diagnosing rotator cuff pathology is limited following surgery
Shoulder Computed Tomography (CT) Scan	 Initial assessment: Surgical planning for shoulder replacement candidates If plain radiographs indicate a potential malignant tumor, CT scan is recommended by the radiologist as a confirmatory test To rule out an abscess or infection 	Pregnancy	
Shoulder Magnetic Resonance Imaging (MRI)	Initial assessment: Inconclusive ultrasound Surgical planning of rotator cuff tear	PregnancyCardiac pacemakerMetallic orbital foreign body	In cases with severe muscle wasting inability to raise arm and significant superior subluxation on plain radiographs, MRI may not

Lakeridge Health Page 4 of 9



Medical Advisory Committee Approved: 220CT2019

Order	Indication	Contraindication	Notes (Optional)
	 Revision rotator cuff surgery Post-operative assessment: In case of recent trauma or significant residual symptoms 	 Metallic foreign body/shrapnel Tissue expander Implanted Cardioverter Defibrillator (ICD) Prosthetic heart valves Insulin/infusion pump Nerve stimulators Any metallic implants (i.e. orthopaedic hardware) Lead wires Surgical clips/cerebral aneurysm clip Medication patch Tattoos 	be indicated as the rotator cuff tear may not be reparable
		Intrauterine Device (IUD)	
MRI Arthrogram	Initial assessment	All of the above contraindications for MRI plus: • Allergy to contrast media • Pre-existing infection • Reflex sympathetic dystrophy • Bleeding disorders • Avascular necrosis • Kidney conditions • On dialysis	

Lakeridge Health Page 5 of 9



Medical Advisory Committee Approved: 220CT2019

Order	Indication	Contraindication	Notes (Optional)
Injection of MethylPREDNISolone Acetate (DEPO-Medrol ®) 80 mg per injection site.	Acromioclavicular Joint (AC): OA of the AC joint Capsulitis of the AC joint Subacromial (SA) space: Posterior, anterior and lateral approach: Impingement syndrome OA of the AC joint with inferior osteophytes Small rotator cuff tear (prefer attempt of conservative treatment vs surgery) Large/massive rotator cuff tears (tear not reparable) Glenohumeral Joint (GH): Adhesive Capsulitis OA of the glenohumeral joint Biceps proximal long head tendon: Biceps long head tendinitis	 Infection Septic arthritis Bacteremia (presence of viable bacteria in the circulating blood) Cellulitis (non-necrotizing inflammation related to acute infection) of overlying skin, Adjacent osteomyelitis Allergy to methylPREDNISolone, cortisone or other steroids (betamethasone (Celestone), Triamcinolone (Kenalog)) Uncontrolled coagulopathy 	DEPO-Medrol to be diluted with 1-8 mL of 1% lidocaine per injection site. See order for Lidocaine in Medications section below.
Suture/staple removal from incision	Staples removed from incision 14 days post-op	If concern for delayed closure (ie. immunocompromised)	If wound infection or dehiscence, notify MRP. This may require opening of wound, debridement and packing.

Lakeridge Health Page 6 of 9



Medical Advisory Committee Approved: 220CT2019

Referral

Order	Indication	Contraindication	Notes (Optional)
Outpatient Physical Therapy	 Shoulder pain Reduction to glenohumeral joint range of motion Forward shoulder posture Myofascial shoulder pain Long head of biceps rupture Shoulder weakness Rotator cuff tendon strain or tear 		
Orthopedic Surgical Consultation	 Post-operative Surgical candidate Diagnostic arthroscopy Decompression Debridement for osteoarthritis Total shoulder replacement / Hemiarthroplasty / Reverse arthroplasty Rotator cuff repair SLAP repair Stabilization/Bankart repair 		
Fluoroscopy or Ultrasound Guided Radiologist Injection of methylPREDNISolone Acetate (DEPO-Medrol ®) 80 mg	Glenohumeral injection of DEPO-Medrol with fluoroscopy guidance: Adhesive Capsulitis OA of the glenohumeral joint Subacromial injection of DEPO-Medrol with ultrasound guidance: Large amount of soft tissue surrounding shoulder Ineffective previous injection	 Infection Septic arthritis Bacteremia (presence of viable bacteria in the circulating blood) Cellulitis (non-necrotizing inflammation related to acute infection) of overlying skin, Adjacent osteomyelitis methylPREDNISolone, cortisone or other steroids (betamethasone 	

Lakeridge Health Page 7 of 9



Medical Advisory Committee Approved: 220CT2019

Order	Indication	Contraindication	Notes (Optional)
	Biceps long head injection with ultrasound guidance: Biceps tendinitis	(Celestone)), (Triamcinolone (Kenalog)) • Uncontrolled coagulopathy	
		Relative contraindications Diabetes mellitus	

Medications

Order	Indication	Contraindication	Notes (Optional)
Meloxicam 7.5 mg PO BID for 4 weeks	Shoulder painShoulder inflammation	 Allergy or sensitivity to non-steroidal anti-inflammatories History of hepatitis or other liver disease Renal failure History of gastrointestinal bleed or ulcers 	
Naproxen 500 mg PO BID for 4 weeks	Shoulder painShoulder inflammation	 Allergy or sensitivity to non-steroidal anti-inflammatories History of hepatitis or other liver disease Renal failure History of gastrointestinal bleed or ulcers 	
Celecoxib 100 mg PO BID for 4 weeks	Shoulder painShoulder inflammation	 Allergy or sensitivity to non-steroidal anti-inflammatories History of hepatitis or other liver disease Renal failure 	

Lakeridge Health Page 8 of 9



Medical Advisory Committee Approved: 220CT2019

Order	Indication	Contraindication	Notes (Optional)
MethylPREDNISolone Acetate (DEPO-Medrol ®) 80 mg per injection site.	Acromioclavicular Joint (AC): OA of the AC joint Capsulitis of the AC joint Subacromial (SA) space: Posterior, anterior and lateral approach: Impingement syndrome OA of the AC joint with inferior osteophytes Small rotator cuff tear (prefer attempt of conservative treatment vs surgery) Large/massive rotator cuff tears (tear not reparable) Glenohumeral Joint (GH): Adhesive Capsulitis OA of the glenohumeral joint	 History of gastrointestinal bleed or ulcers Infection Septic arthritis Bacteremia (presence of viable bacteria in the circulating blood) Cellulitis (non-necrotizing inflammation related to acute infection) of overlying skin, Adjacent osteomyelitis Allergy to methylprednisolone, cortisone or other steroids (betamethasone (Celestone), Triamcinolone (Kenalog)) Uncontrolled coagulopathy 	(Optional) DEPO-Medrol to be diluted with 1-8 mL of 1% lidocaine per injection site.
111 1 101 10	Biceps proximal long head tendon: • Biceps long head tendinitis		
Lidocaine 1% 1-8 mL	 Dilution of methylPREDNISolone (DEPO- Medrol) 	Allergy to lidocaine	

Lakeridge Health Page 9 of 9