

Day Surgery Hip and Knee Arthroplasty Exclusion Criteria		
Service Area: Provincial Surgery - Orthopedics	Guideline Number: XX-XXX-XXX V#	
Approved By: Provincial Clinical Leadership Team (PCLT)	Approved Date: Nov/21/2023	

1.0

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CLINICAL GUIDELINE STATEMENT:

- **1.1** The purpose of this guideline is to provide high-quality, efficient and safe orthopedic surgical care for hip and knee arthroplasty patients. It provides evidence-informed criteria for the exclusion of patients from <u>day surgery</u> hip and knee arthroplasty.
- **1.2** The guideline applies to orthopedic surgeons, anesthesiologists, and other clinical team members.

GUIDELINE:

2.1 Inclusion/Exclusion Criteria

2.1.1 Important Note

• At any point in the perioperative journey, a change in a patient's medical status may require a transition from a day surgery case to an Inpatient case, at the discretion of the care team.

2.1.2 Inclusion

- If applicable, the guideline identifies exceptions to day surgery hip and knee arthroplasty <u>exclusion criteria</u>.
- The process by which an <u>exception</u> is permitted is often, but not always, determined by clinical team consensus upon evaluating the patient's overall condition.

2.2 Guideline

2.2.1	No.	Category	Criteria for Exclusion	Exception
	1.	Surgical Complexity	Procedures that are expected to have significantly higher than usual operative time, blood loss, require corrective osteotomy or revision implants	
	2.	Age	> 80	Exceptions may be made with consensus of the clinical team based on overall patient clinical condition

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3.	Body Mass Index	> 40	Exceptions may be made with consensus of the clinical team based on overall patient clinical condition	
4.	ASA Score	 >3 Refer to <u>ASA</u> <u>Physical Status</u> <u>Classification</u> <u>System</u> for more detailed information 	Exceptions may be made with consensus of the clinical team based on overall patient condition	
5.	Psychiatric	Poorly controlled Psychiatric disorders, e.g. • Anxiety • Panic disorder • Depression	Stable, well-controlled psychiatric disorders may be considered	
6.	Renal	 Creatinine clearance <30 mL/min Acute kidney injury in the past with residual damage or at risk for having recurrent, intra-op renal dysfunction 	Exceptions may be made with consensus of the clinical team based on overall patient condition	
7.	Urinary	Previous need for long- term urinary Foley catheter post-op	Exceptions may be made with consensus of the clinical team based on overall patient condition	
8.	Diabetes	Poorly controlled diabetes (e.g. HbA1C > 8%)		
9.	Hematology	 Significant coagulation disorder Anemia: HgB <120 g/L 	Exceptions may be made with consensus of the clinical team based on overall patient condition	
10.	Cardiovascular	Cardiac disease, which limits daily activity This includes cardiac conditions that would result in an ASA score > 3. e.g. Congestive Heart Failure, Significant Aortic Stenosis	 Previous cardiac stent or valve replacement without cardiac symptoms are acceptable Exceptions <i>may be</i> made with consensus of the clinical team based on overall patient condition 	

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11.	Pulmonary - Obstructive Sleep Apnea Refer to <u>Appendix A -</u> <u>Hip and Knee</u> <u>Arthroplasty Day</u> <u>Surgery</u> <u>Qualifications for</u> <u>Obstructive</u> <u>Sleep Apnea</u> <u>Patients</u>	 Moderate to Severe OSA patients who have demonstrated non-compliance with <u>CPAP</u> OSA with significant secondary organ involvement, such as Right Heart Dysfunction Pulmonary Hypertension and associated Coronary Artery Disease 	 OSA patients without complications and CPAP compliant are acceptable High <u>STOP-Bang</u> does not necessarily preclude day surgery but may require 90 min monitoring in the recovery room
12.	Pulmonary - Other	 Moderate to severe Chronic Obstructive Pulmonary Disease Pulmonary embolism or <u>DVT</u> in the past year 	Exceptions may be made with consensus of the clinical team based on overall patient condition
13.	Medications	 Chronic opioid dependence Complex peri-op anti-coagulation requirements Chronic, significant Benzodiazepine dosages Inability to tolerate post-op oral antibiotic Chronic Steroid usage 	 Simple anti-coagulation management e.g. Rivaroxaban Inhaled steroids
14.	Mobility	Significant mobility problem, other than the joint to be replaced, imposing functional limitations that would prevent meeting discharge criteria	
15.	Social – Living Situation	 Transportation barriers to and from the hospital Unavailability of caregiver support (physical or mental) during the first postoperative days during home recovery, especially 	

		 the first night after discharge Unavailability of ambulance transport to an urgent care facility within 60 mins for first 24 hours post-op 	
16.	Social - Alcohol	Patients unwilling to abstain from alcohol for at least 14 days before surgery	
17.	Social – Recreational Drugs	Patients unwilling to abstain from non- medicinal <u>THC</u> , Cannabis and/or other recreational drugs for at least 14 days before surgery	<u>CBD</u> oil is acceptable
18.	Social - Tobacco	Patients unwilling to abstain from smoking for at least 8 weeks before surgery	
19.	Other	Inability to participate in the planning and implementation of their outpatient surgery care pathway	

3.0 <u>APPLICATION</u>:

3.1 For Patients

• Assist patients and or their families in understanding the modifiable and non-modifiable exclusion criteria for day surgery hip and knee arthroplasty.

3.2 For Clinicians

- Utilize the exception criteria when assessing appropriateness for day surgery hip and knee arthroplasty.
- Engage in collaborative clinical team discussions to obtain a consensus based on the overall patient condition when determining whether an exception to exclusion criteria is warranted.

3.3 For Health Service Organizations

- Hyperlink directly to the provincial *Hip and Knee Arthroplasty Day Surgery Exclusion Criteria* clinical guidelines on the <u>Shared Health: Health Providers Clinical Projects</u>, <u>Standards</u>, <u>and Guidelines</u> webpage to replace conflicting local governance documents e.g. local policies and guidelines related to this subject matter.
- Ensure clinicians have accessible information, education and training.
- Monitor clinical guideline compliance.

4.0 **DEFINITIONS**:

4.1 Day Surgery: The patient is admitted and discharged on the same calendar day.

Exception: An individualized patient criterion that may still qualify the patient for Day Surgery even if the main criteria disqualifies the patient.

Exclusion Criteria: List of screening questions, utilized by the clinical team, that may disqualify patients from being a candidate for a day surgery hip and knee arthroplasty.

4.2 Abbreviations

ASA: American Society of Anesthesiologists

CBD: Cannabidiol

CPAP: Continuous Positive Airway Pressure

DVT: Deep Vein Thrombosis

MOSE: Manitoba Orthopedic Surgery Executive

OSA: Obstructive Sleep Apnea

DVT: Deep Vein Thrombosis

STOP Bang: Snoring, Tiredness, Observed Apneas, Pressure, BMI, Age, Neck Circumference, Gender (sex) - OSA risk Questionnaire

THC: Tetrahydrocannabinol; psychoactive constituent if cannabis

5.0 <u>CONTACT</u>:

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Key Supporting Documents/Resources:

<u>Appendix A</u> - Hip and Knee Arthroplasty Day Surgery Qualifications for Obstructive Sleep Apnea Patients

ERAS - Clinical Pathway for Inpatient and Outpatient Hip and Knee Arthroplasty

ASA - Physical Status Classification System

References:

- Yang, L., Sun,Y., Li, G. and Liu, J. 2017. "<u>Is Hemoglobin A1c and Perioperative Hyperglycemia Predictive</u> <u>of Periprosthetic Joint Infection Following Total Joint Arthroplasty?</u>". *Medicine*. 96(51):p e8805. doi: 10.1097/MD.0000000008805.
- Tarabichi, M. et al. 2017. "<u>Determining the Threshold for HbA1c as a Predictor for Adverse Outcomes</u> <u>After Total Joint Arthroplasty: A Multicenter, Retrospective Study</u>". *The Journal of Arthroplasty.* 32(9S):S263-S267. doi: 10.1016/j.arth.2017.04.065.

Document Review History

Version #	<u>Date</u>	Reviewer	<u>Action</u>
1.0	8-Aug-2023	Dr. Eric Bohm and Dr. Sudarshana Rao	Primary Authors
1.0	14-Aug-2023	Orthopedic Surgeon and Anesthesiologist Leads – SDO Representatives	Approved
1.0	14-Sep-2023	Provincial Clinical Team, Surgery and Anesthesia	Approved (Dr. Buchel)
1.0	5-Oct-2023	Provincial Clinical Team, Primary Care	Approved
1.0	TBD	Manitoba Orthoepedic Surgery Executive	FYI Pending 2024 next meeting
1.0	21-Nov-23	Provincial Clinical Leadership Team	Approved (via email from Tara Bergner)



Appendix A - Hip and Knee Arthroplasty Day Surgery Qualifications for Obstructive Sleep Apnea Patients

