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Appendix 1. Inclusion and Exclusion Criteria

Inclusion Criteria	Exclusion Criteria
All primary total knee arthroplasties performed by surgeons included in this study	<p>Age &lt; 18 or &gt;80</p> <p>Revision surgery</p> <p>BMI &gt; 40</p> <p>Vascular calcifications or a diagnosis of Peripheral vascular disease*</p> <p>Baseline lower extremity strength less than 5/5</p> <p>History of preoperative narcotic use, defined as 7.5 MME** Q4hrs for one month preoperatively</p> <p>Functionally limiting spine disease</p> <p>Other functionally limiting lower extremity disease</p> <p>Patients who cannot perform baseline functional assessments</p> <p>Any allergy or contraindication to study protocol medications</p> <p>Post-traumatic arthritis</p> <p>Inflammatory arthritis</p> <p>Pregnancy</p> <p>Prisoners</p> <p>Patients receiving care as part of a worker's compensable injury</p>

\*Vascular disease screening: documented history in electronic medical record, use of cilostazol, absence of vascular disease was confirmed during recruitment phone calls, visible calcifications on preoperative x-rays, patients with diminished pulses sent to vascular surgeon for further evaluation and were excluded from the study

\*\*MME – morphine milligram equivalents

**Appendix 2.** Grading scale for difficulty of intraoperative visualization due to blood

0	No Difficulty
1	Some difficulty, but did not affect the case
2	Moderate difficulty
3	Severe difficulty