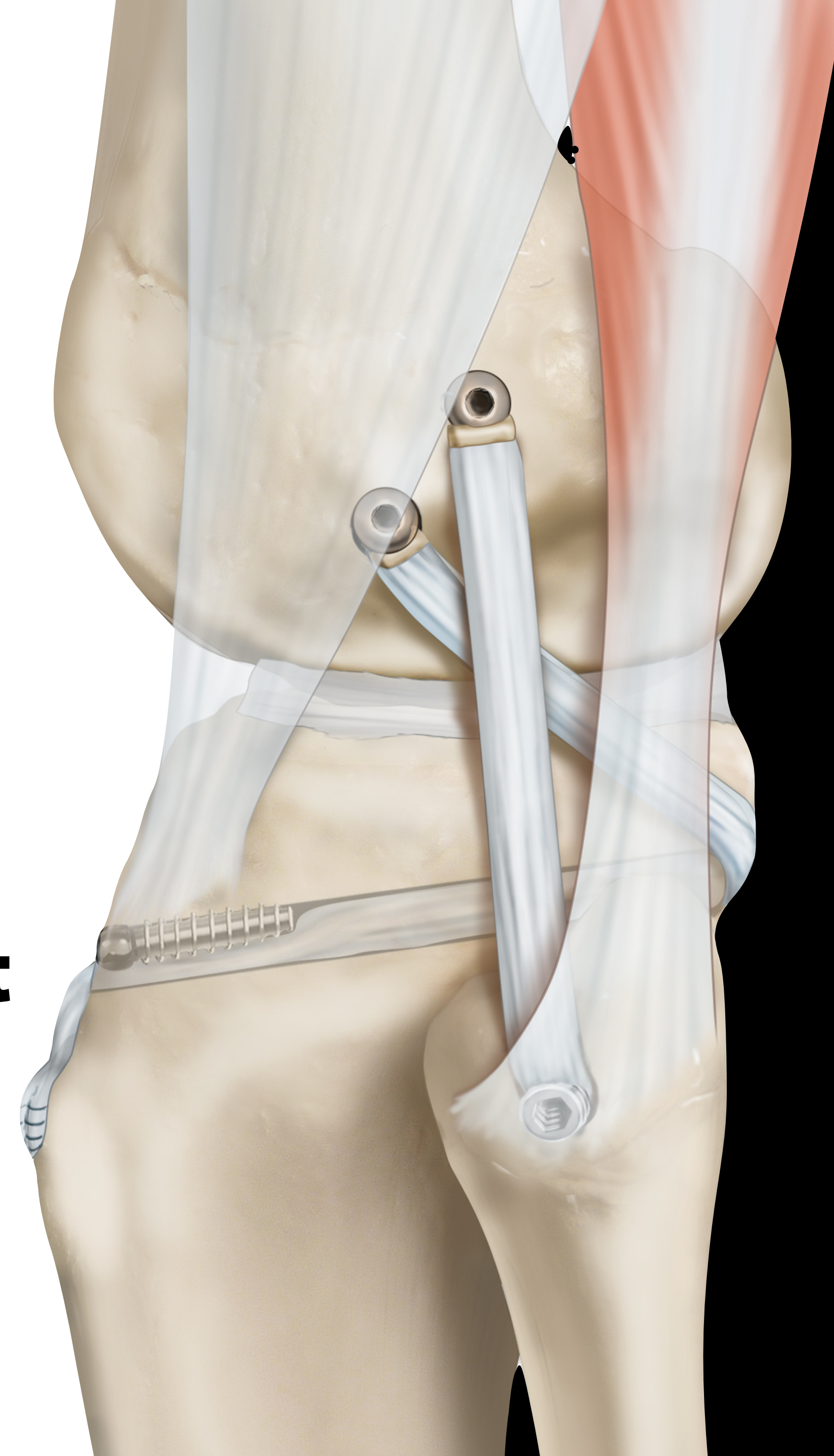




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Techniques and Objective Outcomes in the Surgical Treatment of Chronic Posterolateral Corner Knee Injuries: An Updated Systematic Review Reflecting the 2019 Expert Consensus Statement

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DISCLOSURES

Disclosure

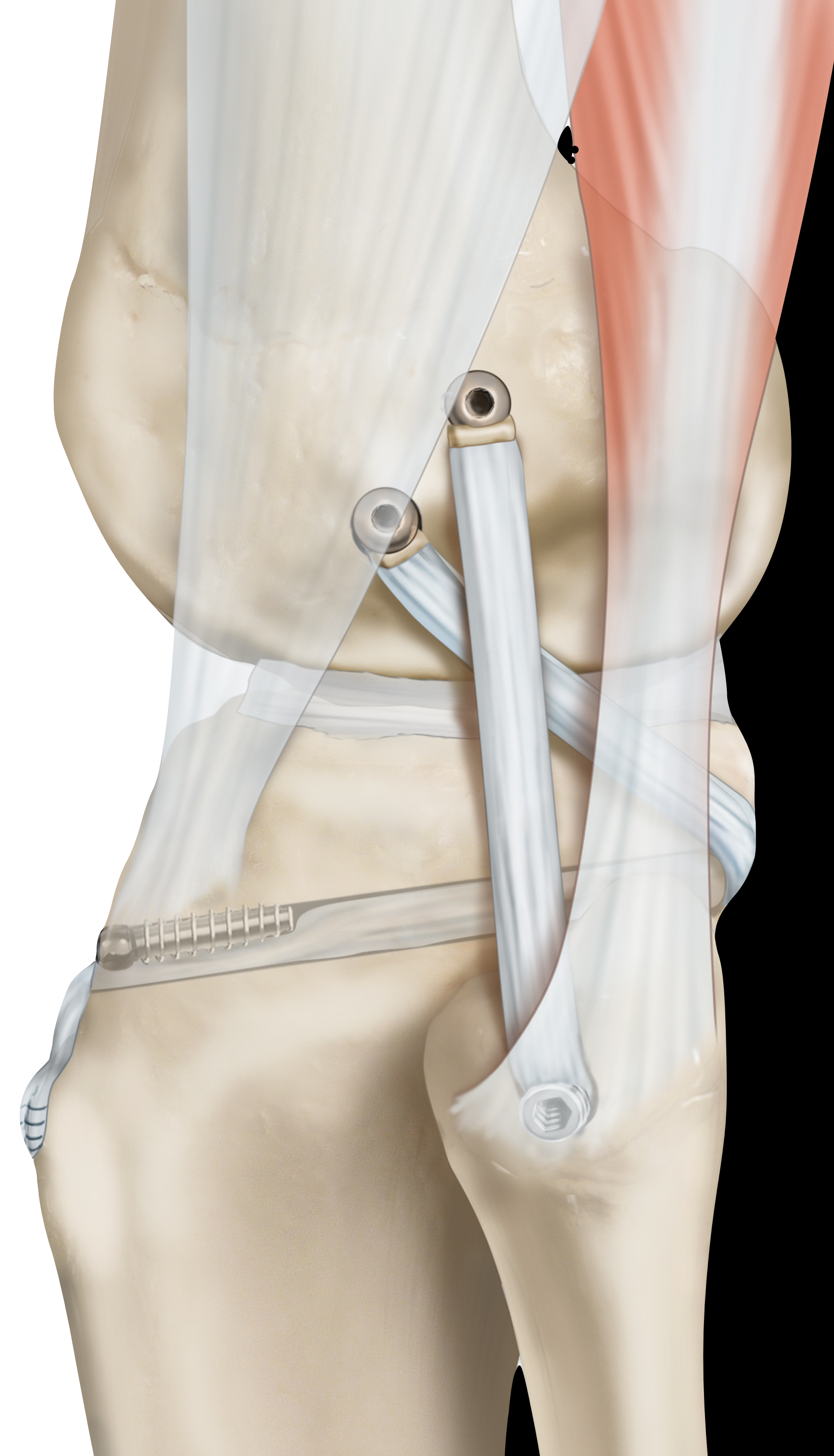
I (and/or my co-authors) have
something to disclose.

Detailed disclosure information is available via:

The course syllabus, or

AAOS Disclosure Program on the AAOS website at
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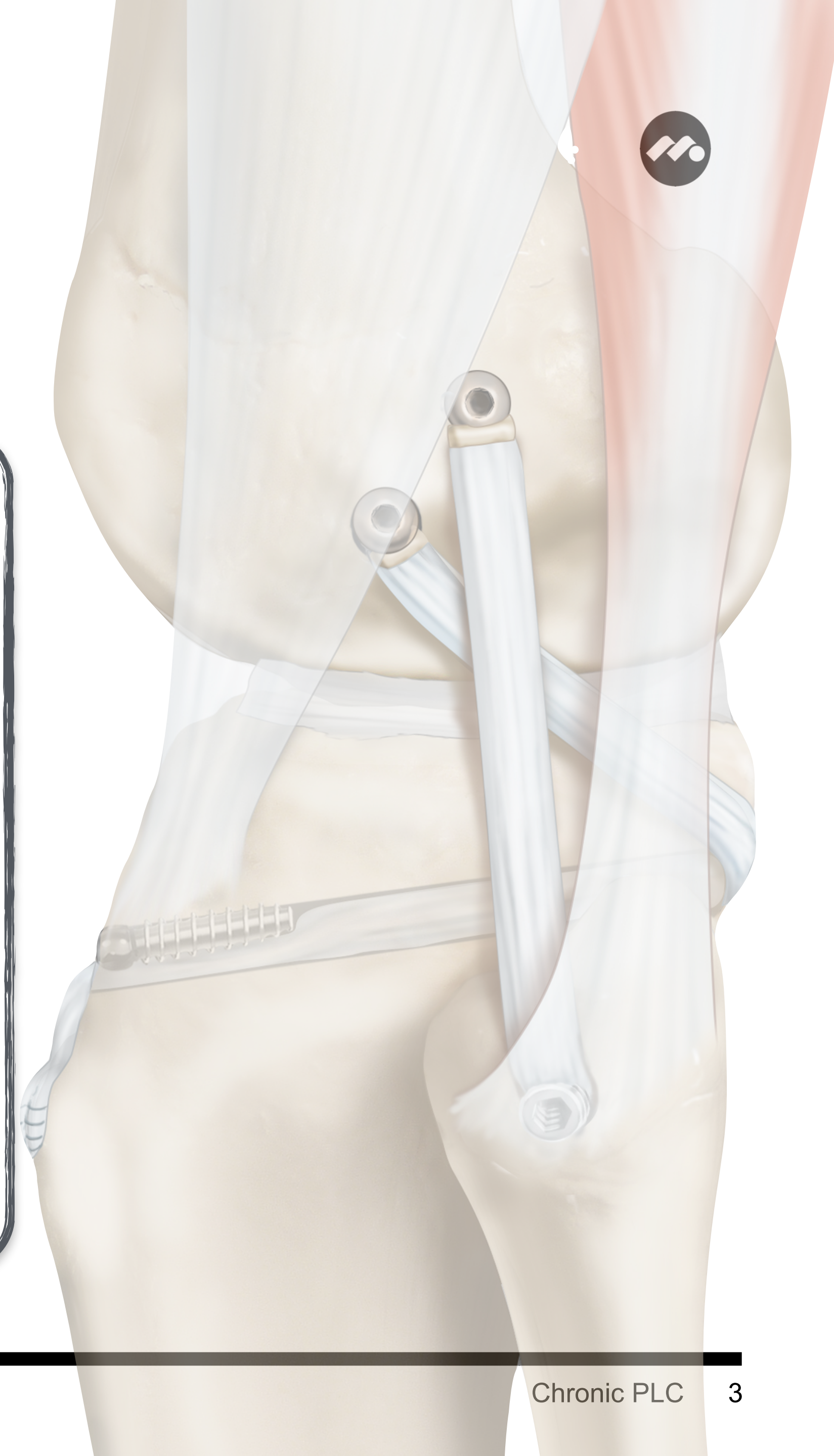
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PURPOSE

TO...

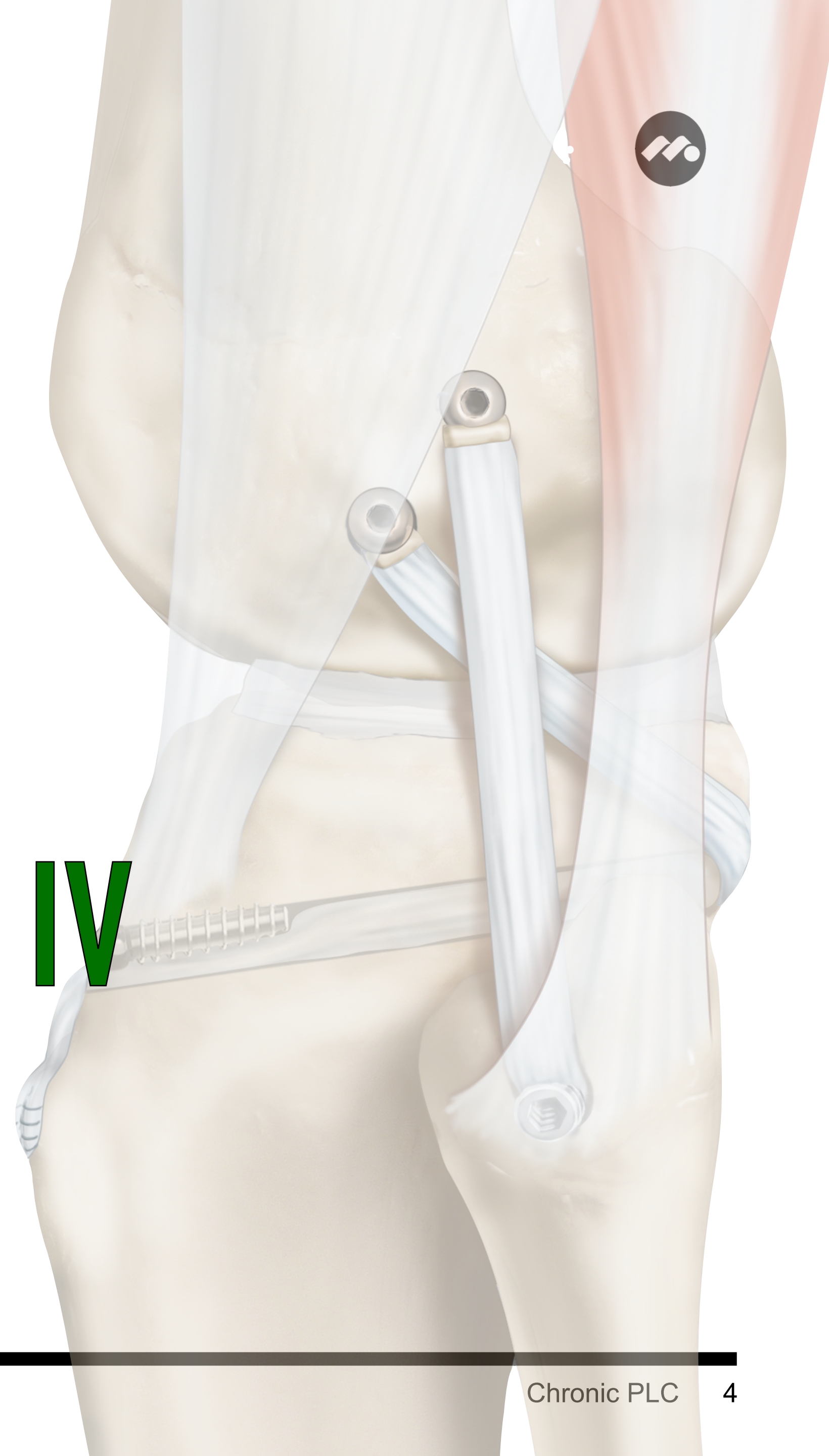
- Describe outcomes following surgical management of chronic, grade III PLC injuries
- Compare the failure rates of anatomic versus nonanatomic reconstruction techniques



LITERATURE SEARCH

PubMed, EMBASE,
MEDLINE & Cochrane

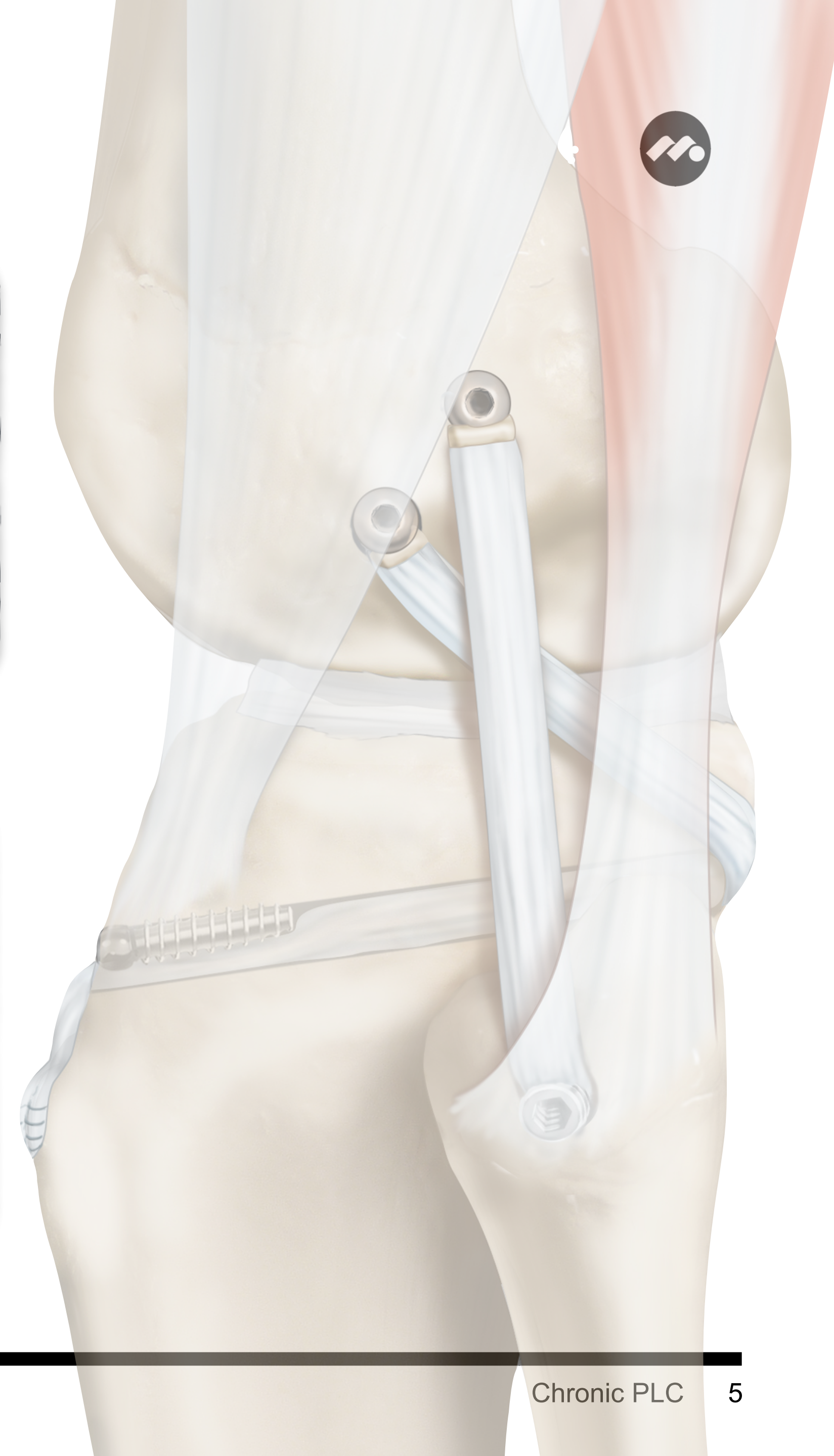
**6 Articles – 3 level III + 3 level IV
(10 separate cohorts)**



RESULTS

230 patients with PLC reconstruction performed

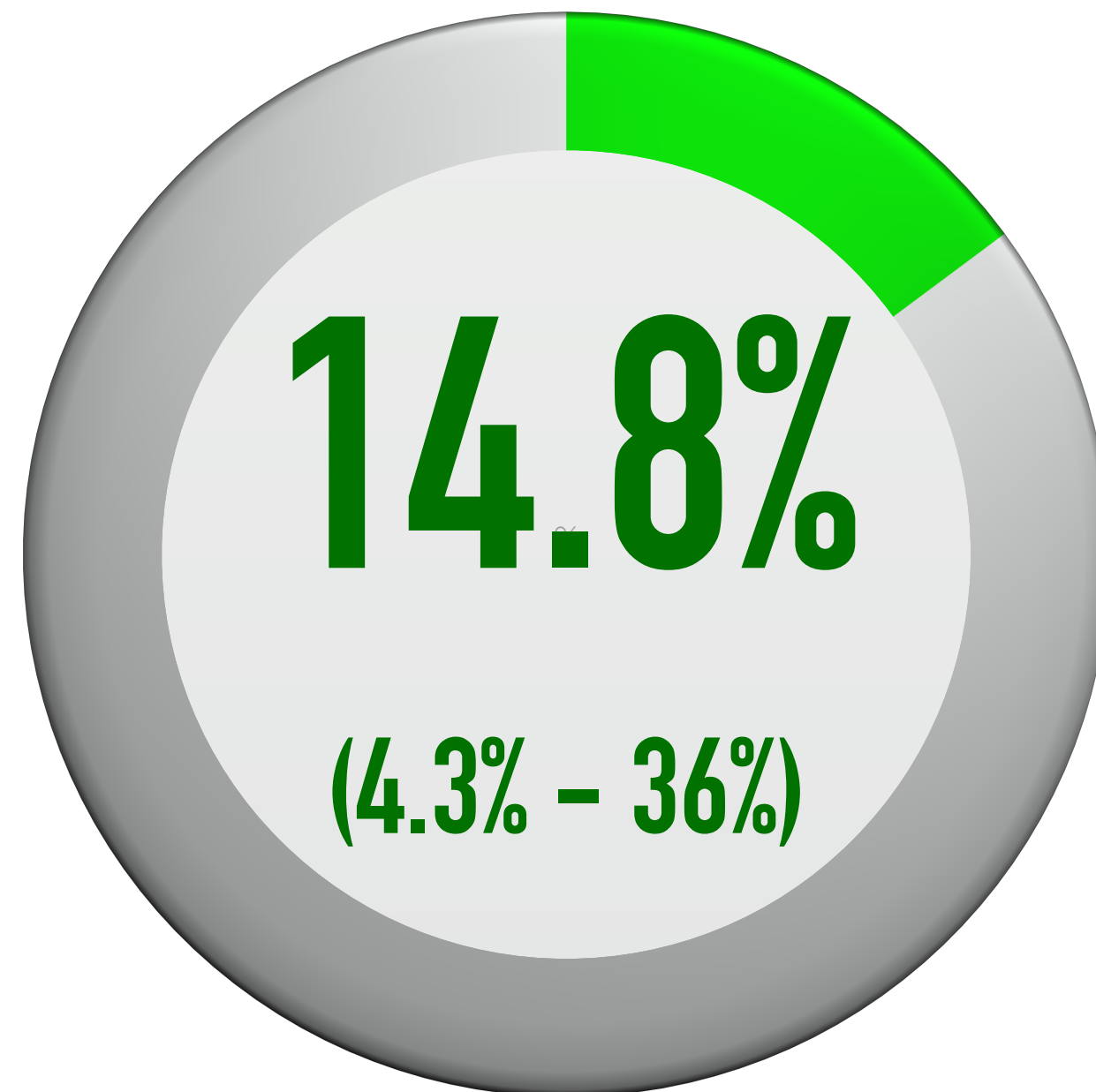
80% (8/10) of the cohorts utilized an anatomic reconstruction technique vs non-anatomic



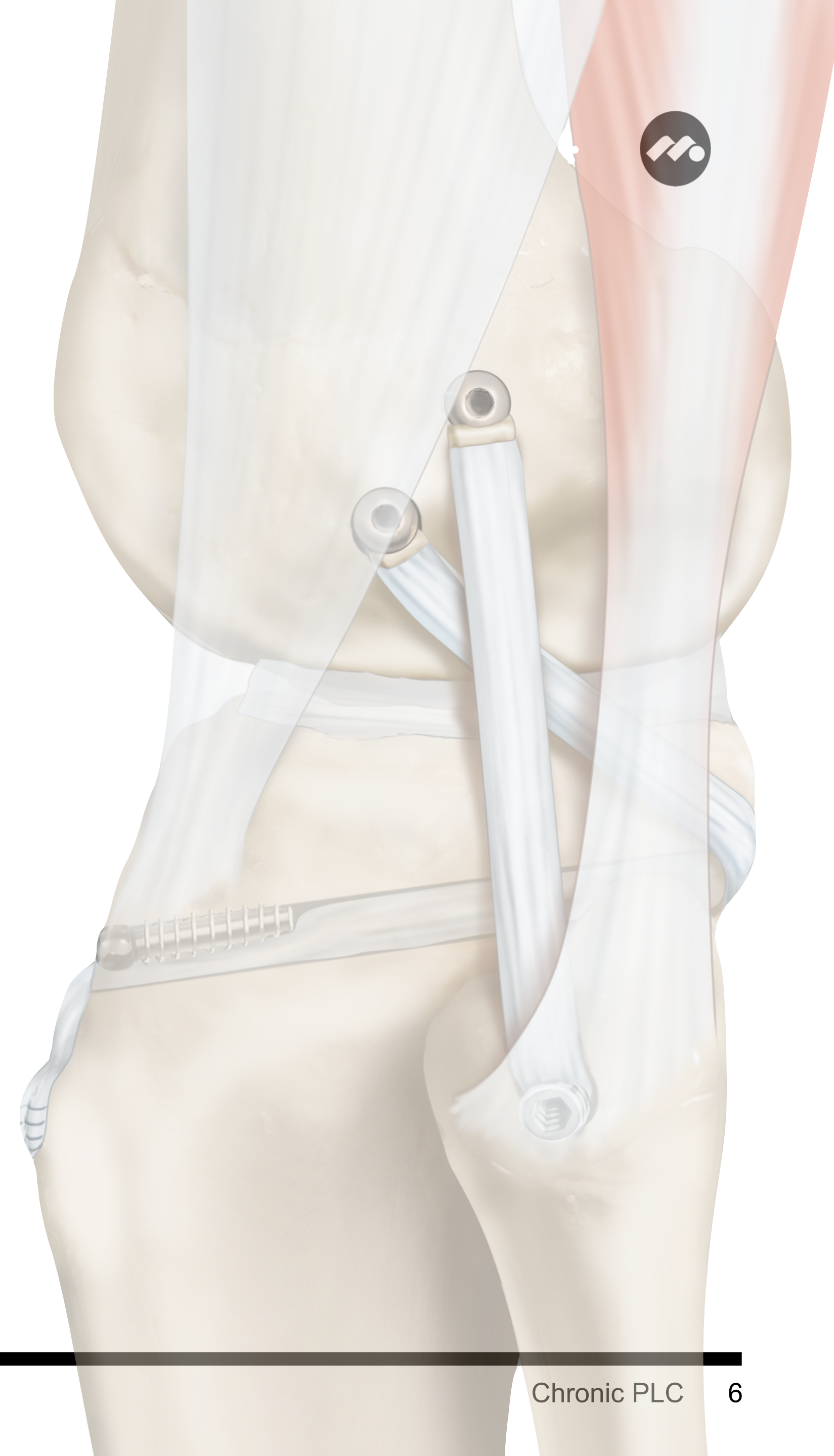
OUTCOMES

USING OBJECTIVE VARUS LAXITY...

OVERALL FAILURE RATE



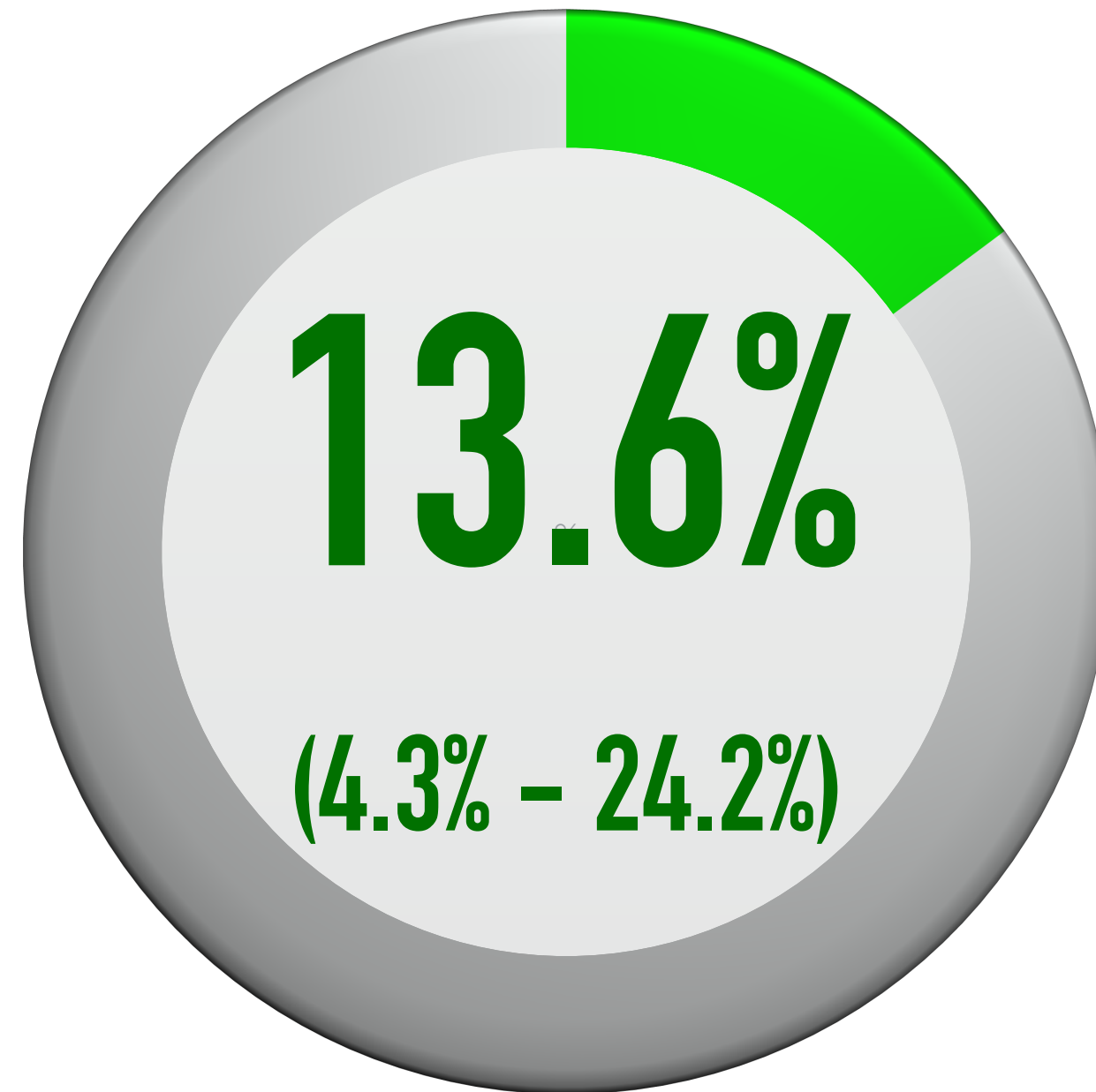
N = 34/230



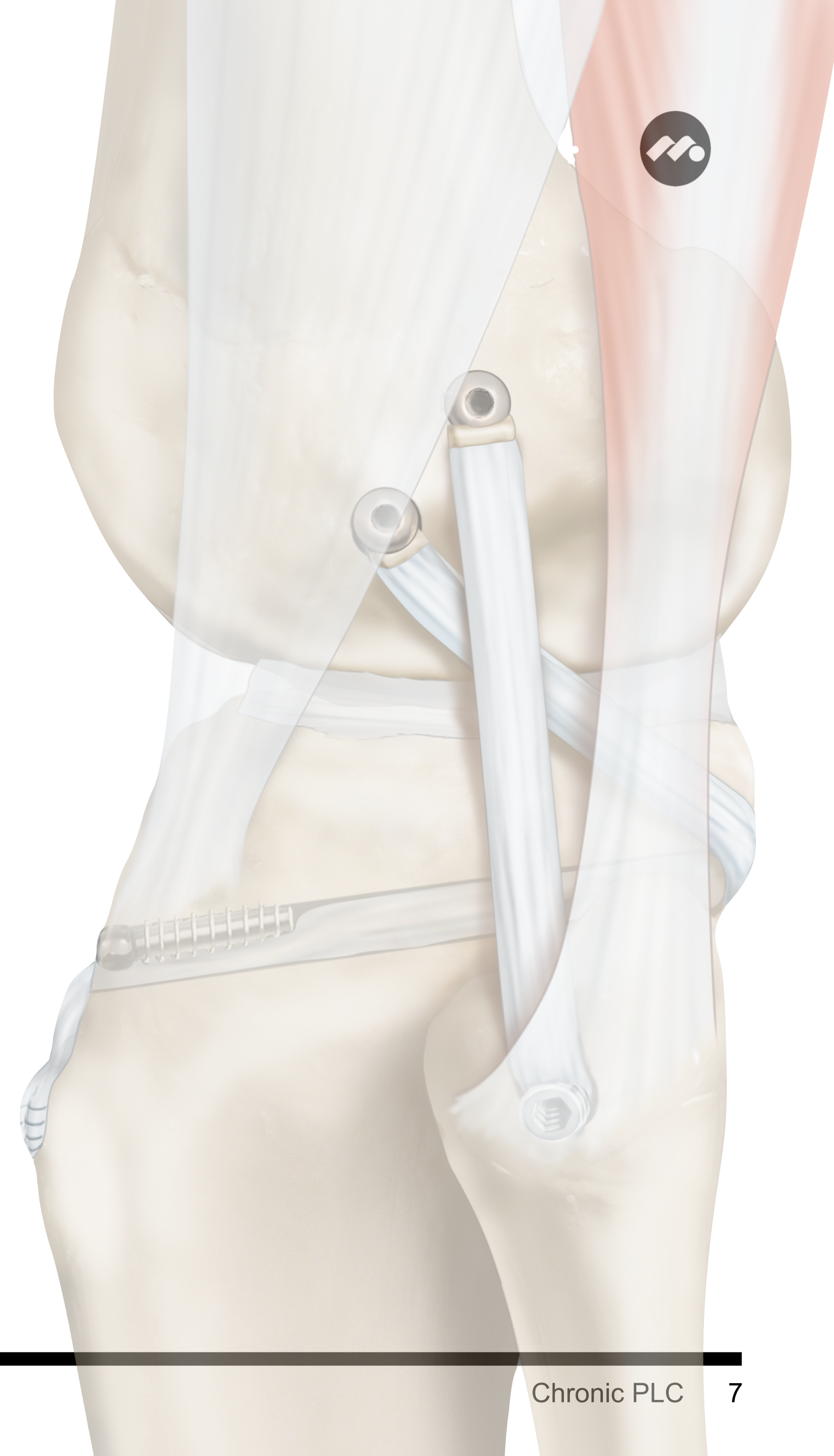
OUTCOMES

USING OBJECTIVE VARUS LAXITY...

ANATOMIC FAILURE RATE



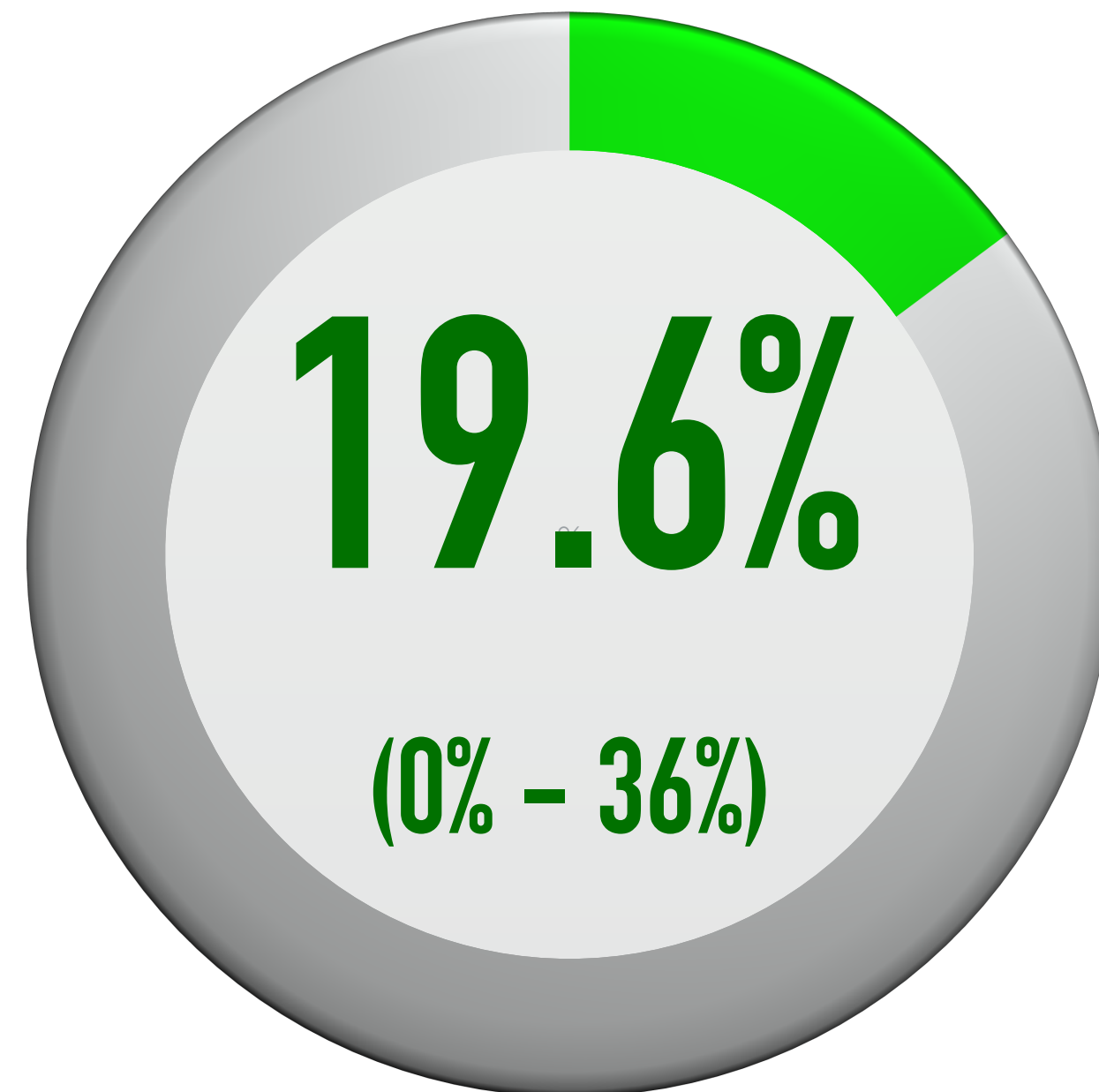
N = 25/184



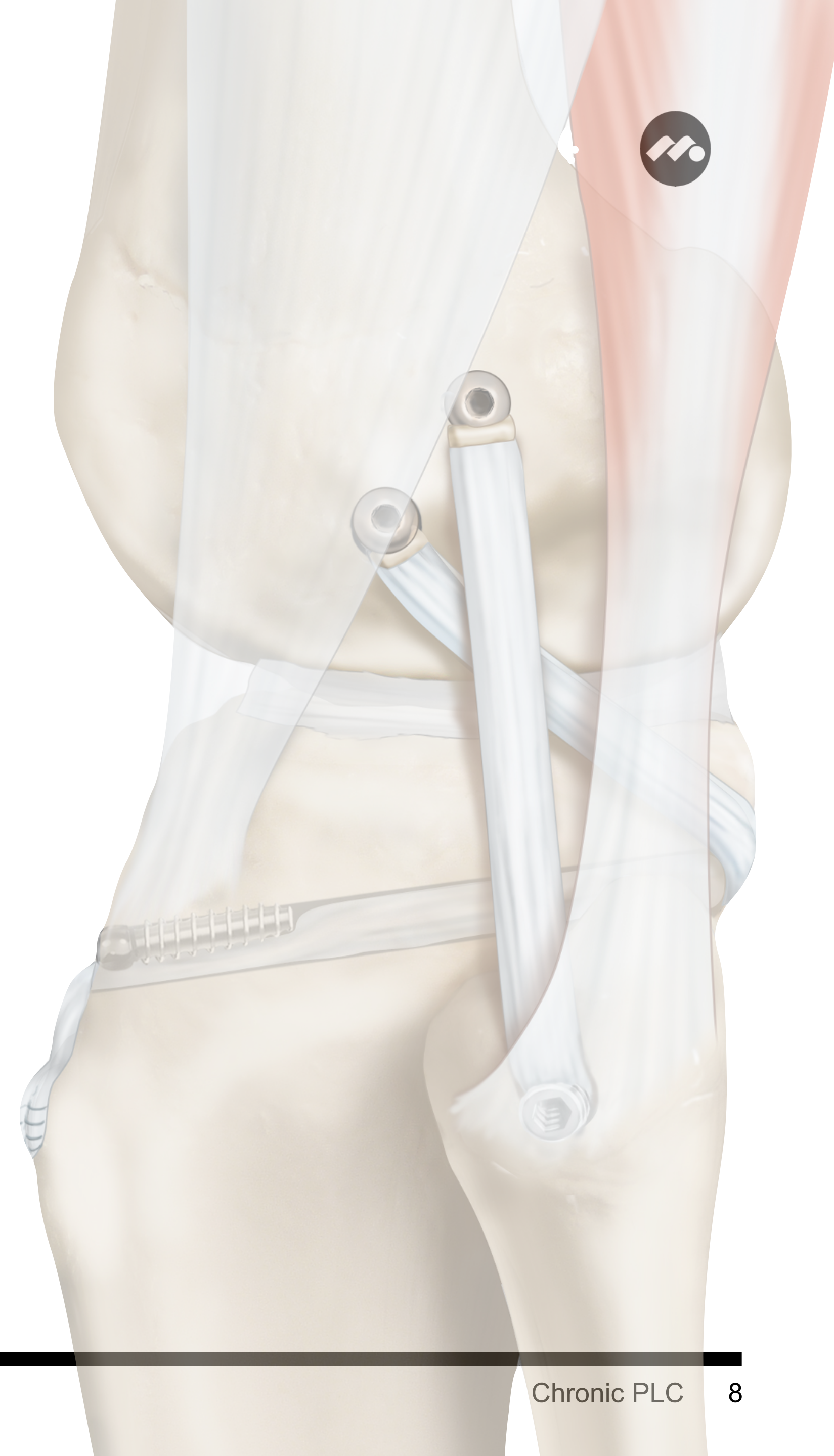
OUTCOMES

USING OBJECTIVE VARUS LAXITY...

NON-ANATOMOMIC FAILURE RATE



N = 9/46



COMPLICATIONS

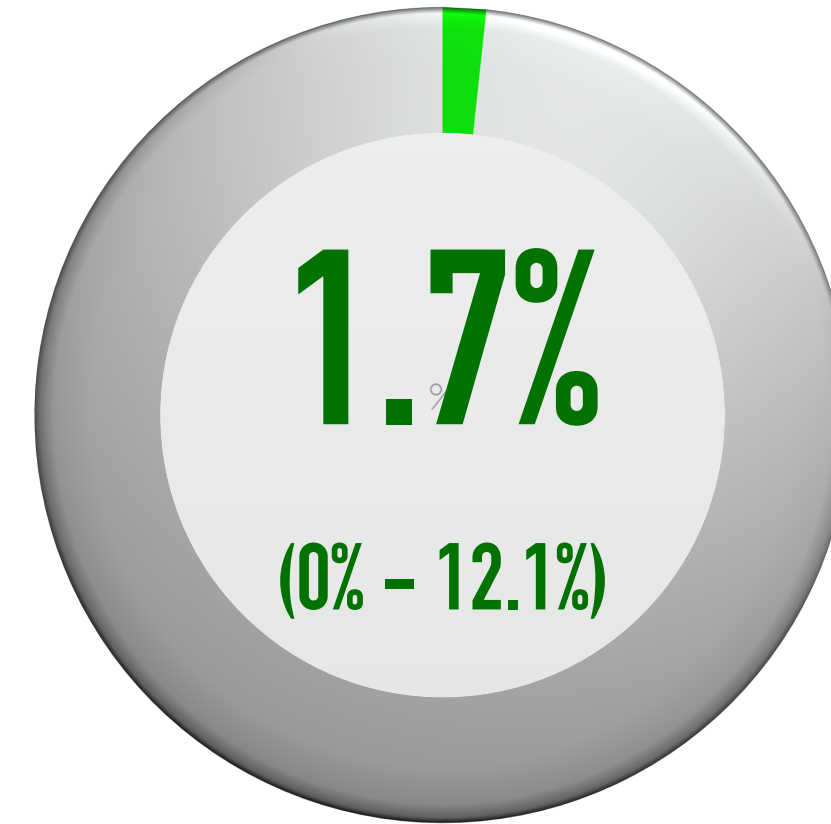
Appendix Table 3. Complications and adverse events

Author (Year)	Complications/Adverse Events
Kim (<40 degrees*, 2009)	Cortical break at fibular head requiring 6 more weeks of immobilization (n=1)
Kim (40-50 degrees*, 2009)	None.
Kim (>50 degrees*, 2009)	None.
Kim (2012)	Reoperation (n=1); ROM Deficit (n=3); osteoarthritis progression (n=1)
Kim (single bundle, 2011)	Cortical break at fibular head requiring 6 more weeks of immobilization (n=1)
Kim (double bundle, 2011)	None.
Kim (anatomic reconstruction, 2011)	Cortical break at fibular head requiring 6 more weeks of immobilization (n=1)
Kim (rerouting biceps tendon, 2011)	Nerve damage (n=1); Reoperation (n=2)
Franciozi (2019)	Infection (n=1); Reoperation (n=1); Arthrofibrosis requiring MUA (n=4); Patellar fracture (n=1)
Lee (2015)	None.

***, represents the degree of tibial external rotation at 90 degrees of knee flexion**

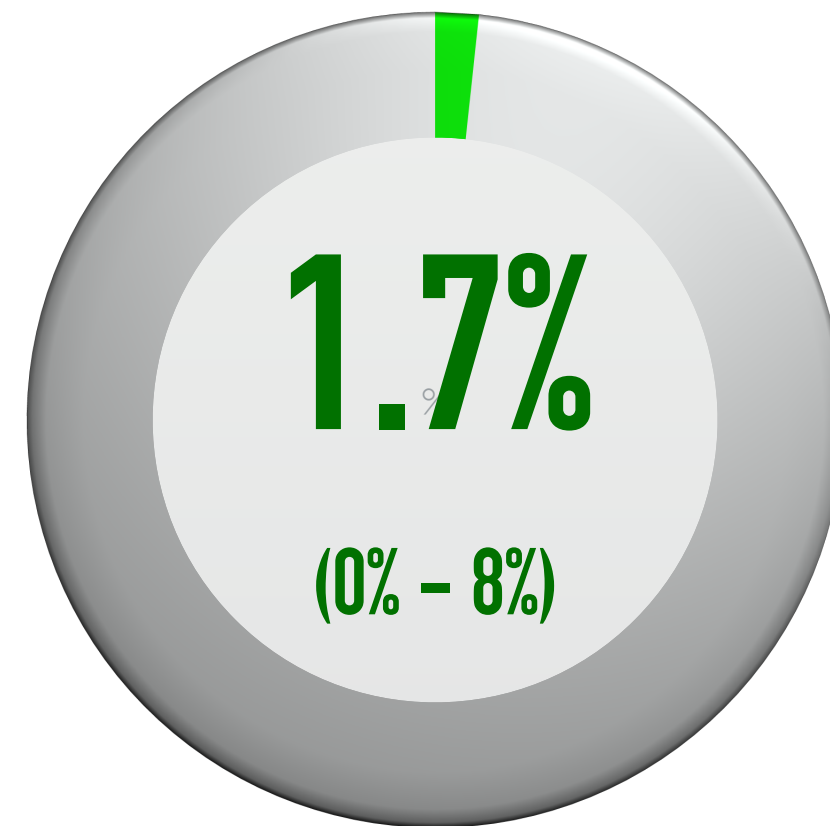
COMPLICATIONS

ARTHROFIBROSIS! MOST COMMON COMPLICATION...

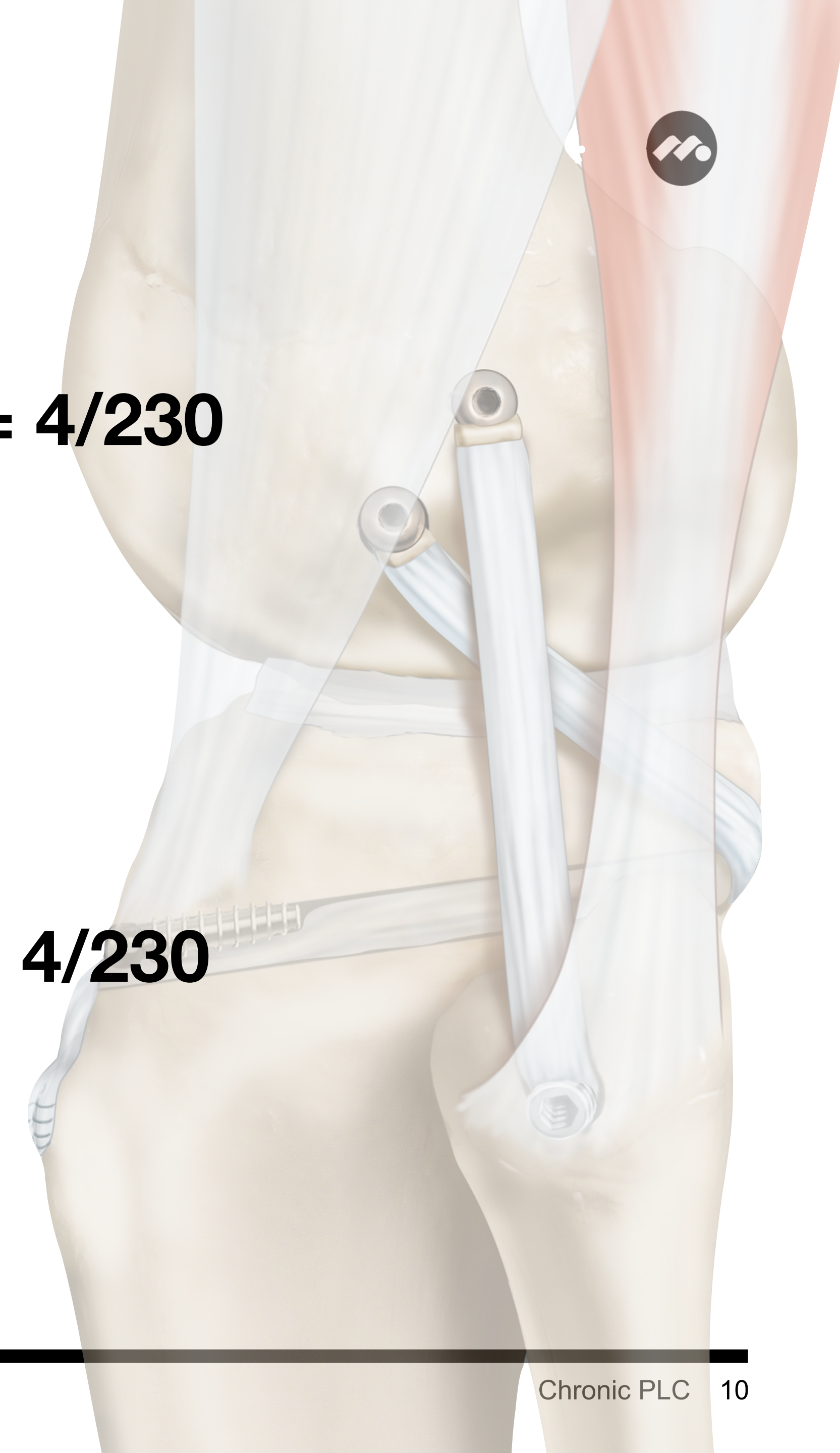


N = 4/230

REVISIONS...



N = 4/230



CONCLUSIONS



Wide variability in failure rates according to side-to-side difference of 3 mm or more of lateral gapping on post-operative varus stress radiographs, with low revision rates following anatomic and nonanatomic reconstruction



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