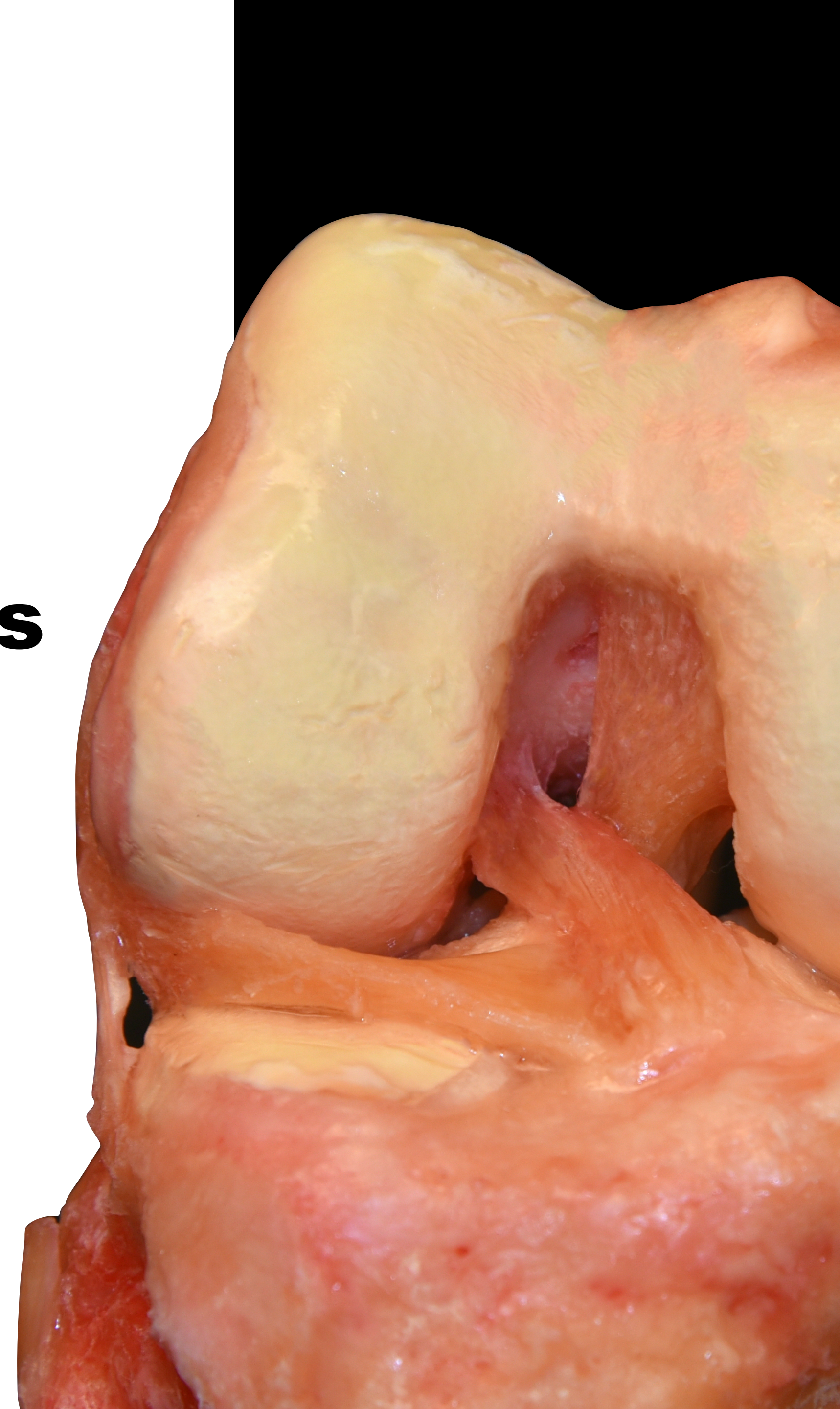




MIDWEST
ORTHOPAEDICS
AT RUSH

Adverse Events and Complications Reported in Prospective Versus Retrospective Investigations of ACLR with BTB Autograft: A Systematic Review

Garrett R. Jackson, MD | Harkirat Jawanda, BS | Enzo S. Mameri, MD, MSc |
Zeeshan A. Khan, BA | Johnathon R. McCormick, MD | Derrick M. Knapik, MD |
Nikhil N. Verma, MD | Jorge Chahla, MD, PhD



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 <http://www.aaos.org/disclosure>

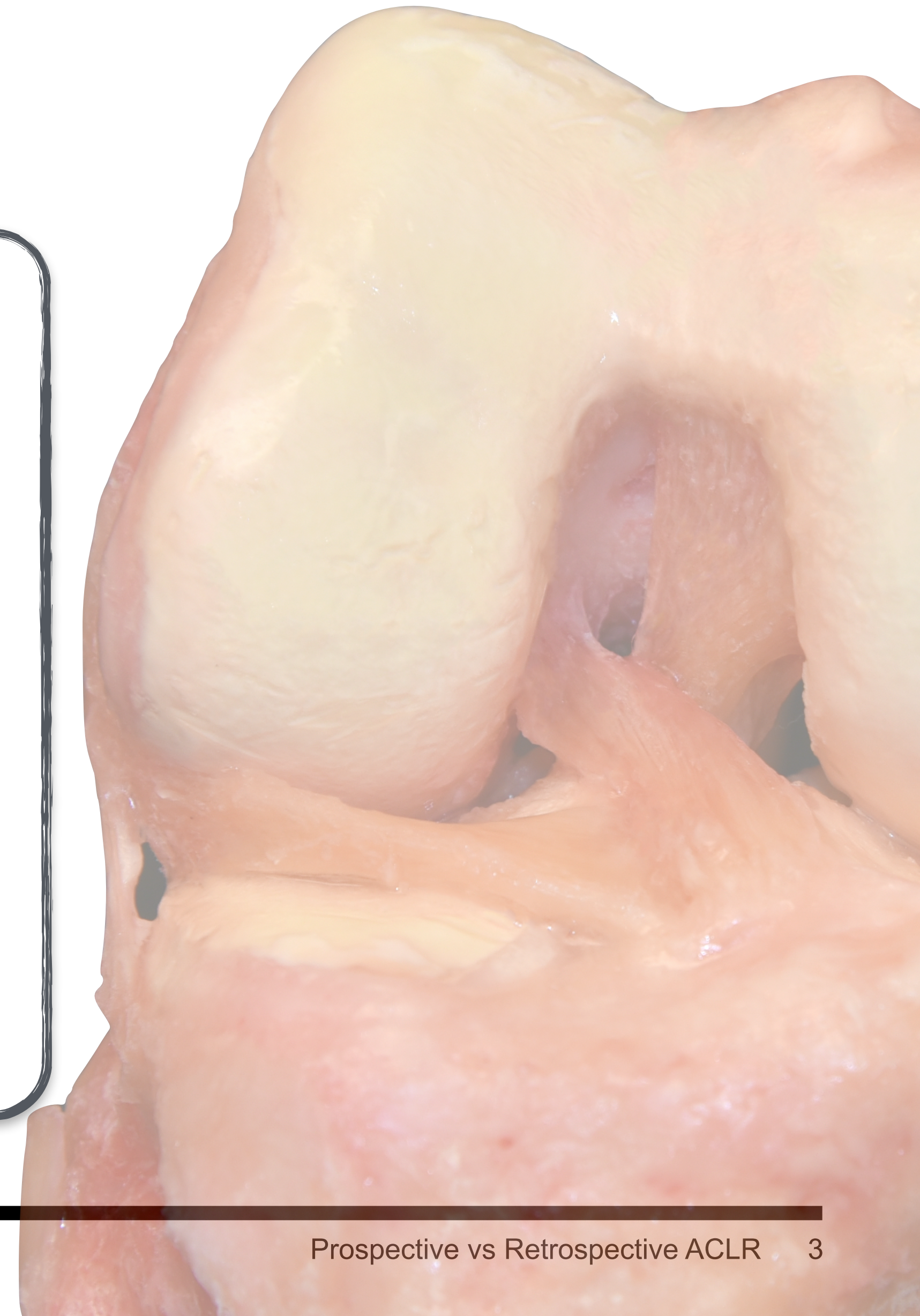


PURPOSE

TO...



Evaluate the differences in incidence of reported postoperative complications and adverse events following primary ACLR using ipsilateral BTB autograft reported in prospective vs retrospective investigations





LITERATURE SEARCH

PubMed, Embase, MEDLINE & Cochrane

56 Articles Included

38 Prospective / 18 Retrospective



RESULTS



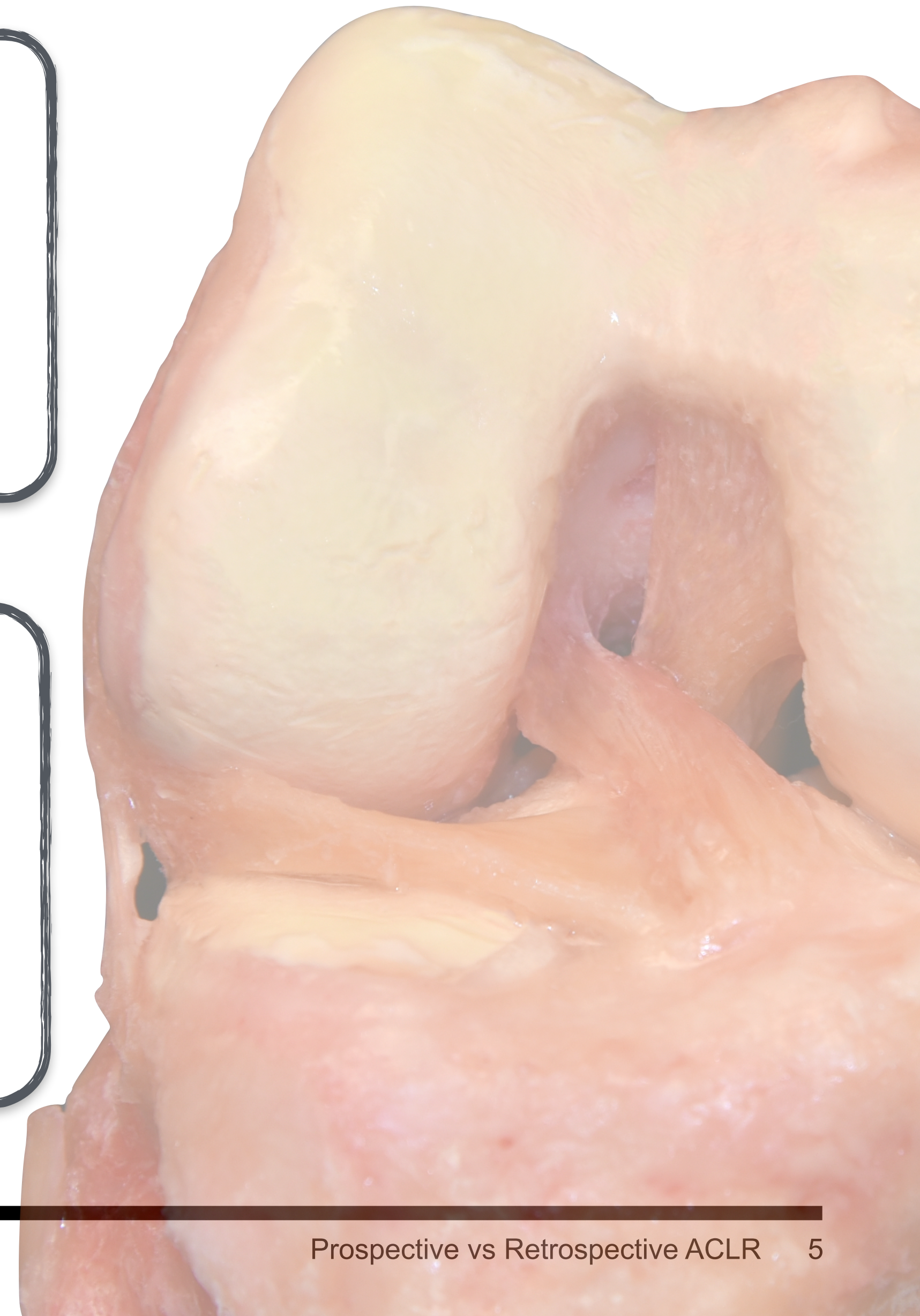
26,637 patients total

Retrospective studies = 19,734 patients

Prospective studies = 6,903 patients

Mean Age: 26.7 years

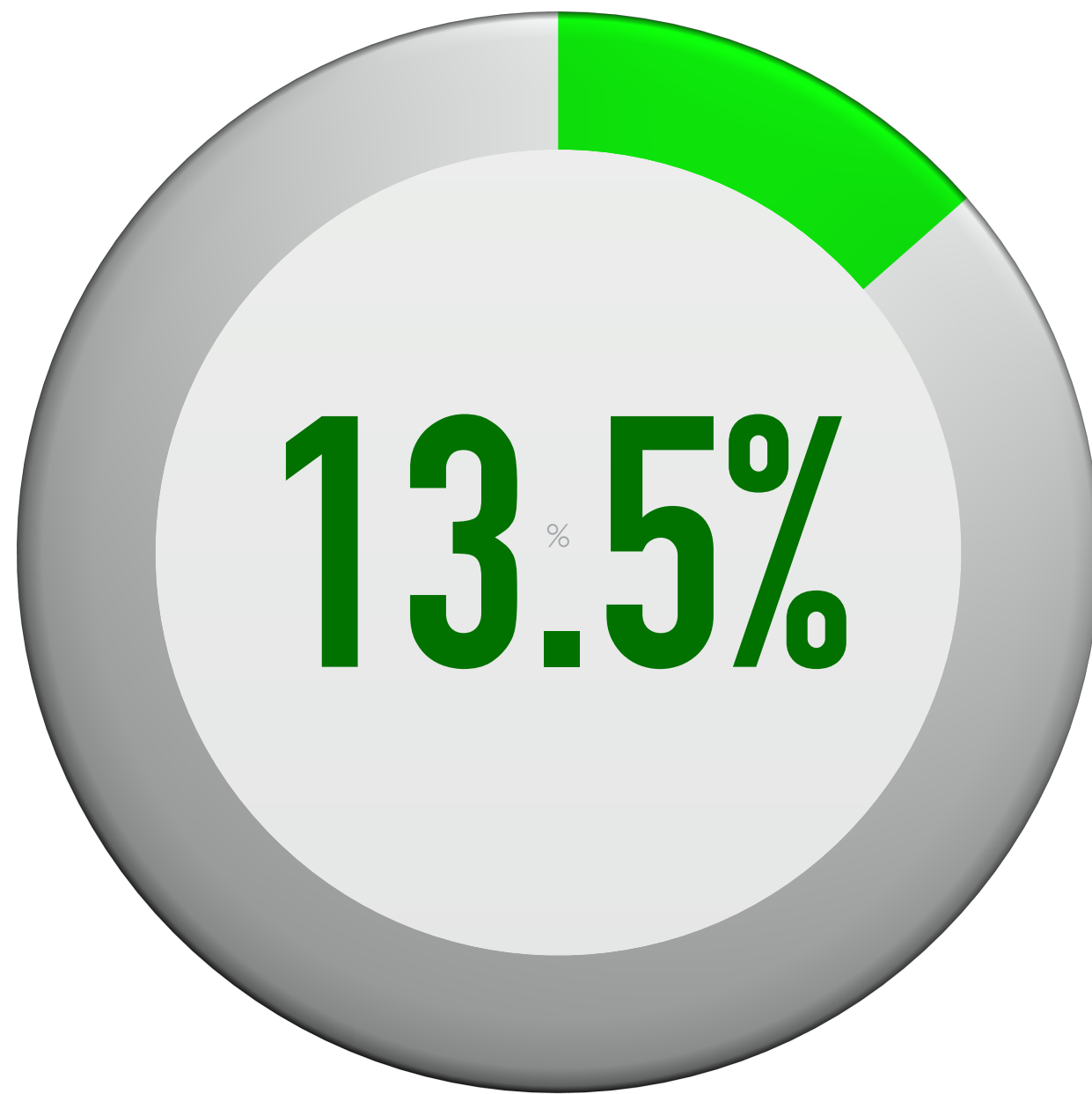
(range; 19 - 34.3 years)





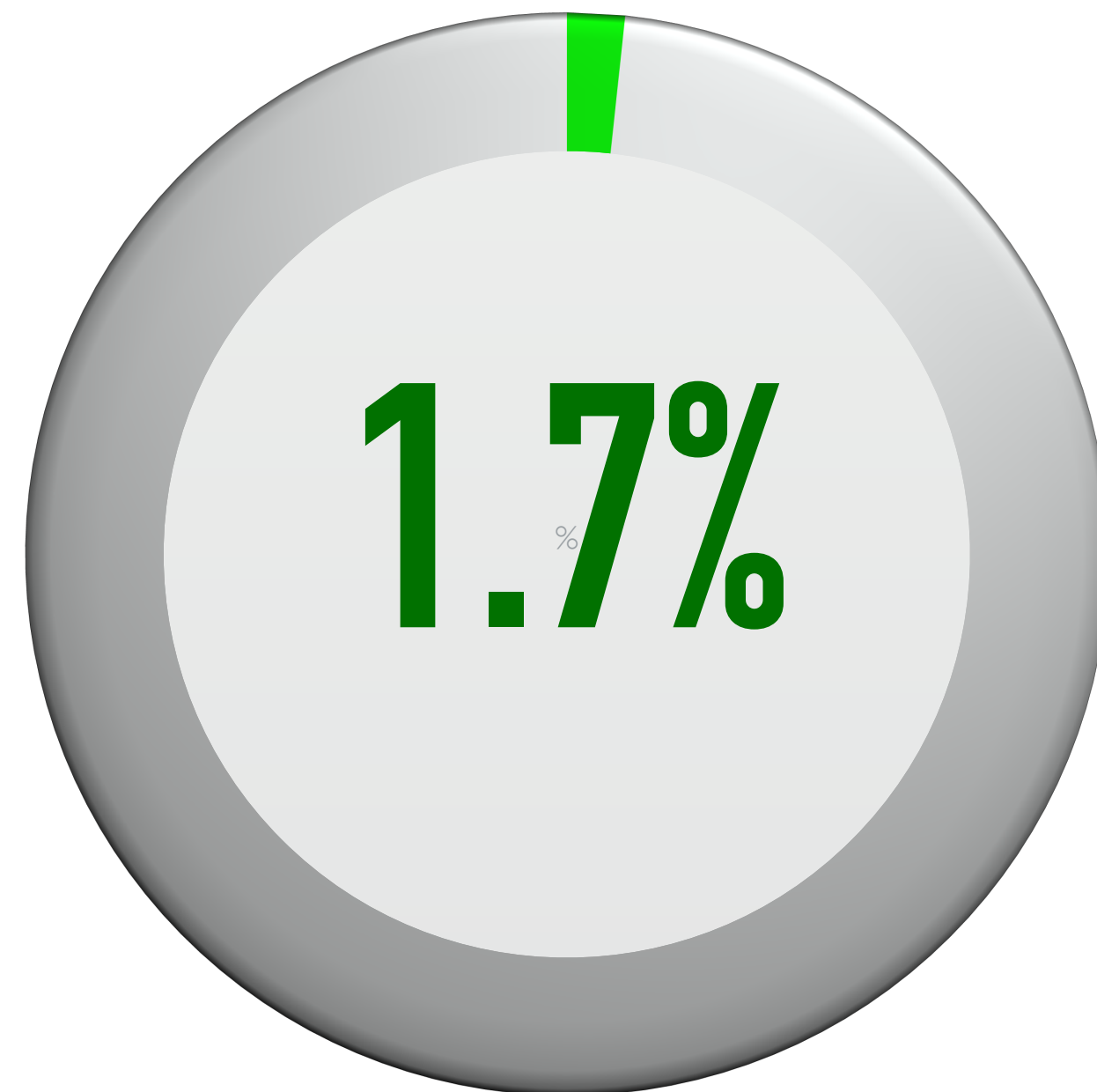
OVERALL INCIDENCE OF COMPLICATIONS

Prospective

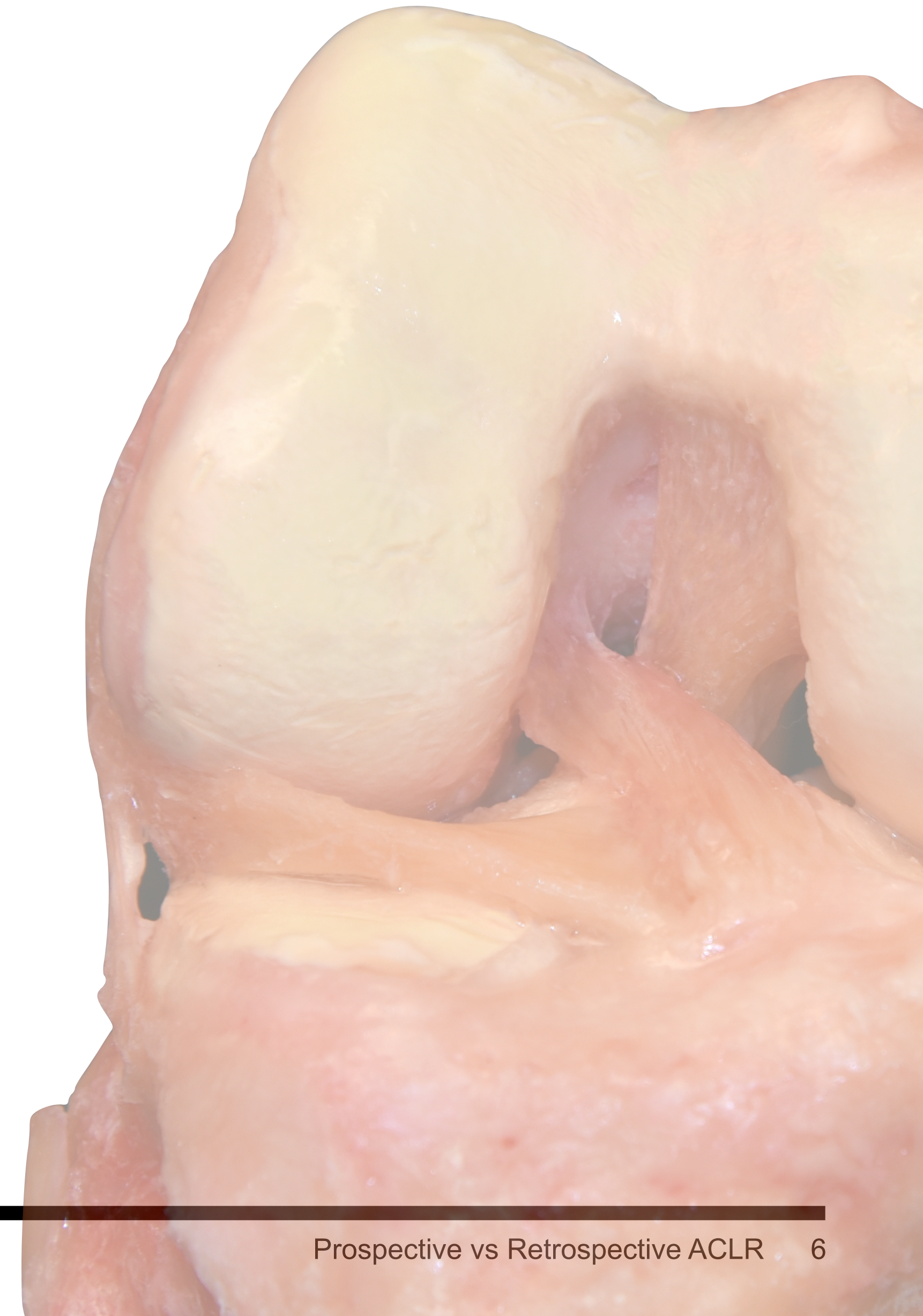


vs

Retrospective



$P < 0.001$

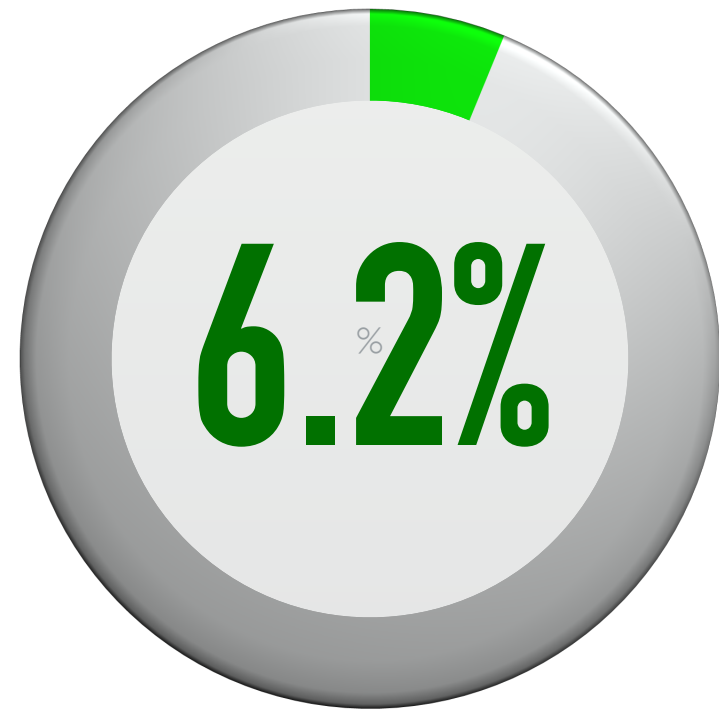


OUTCOMES



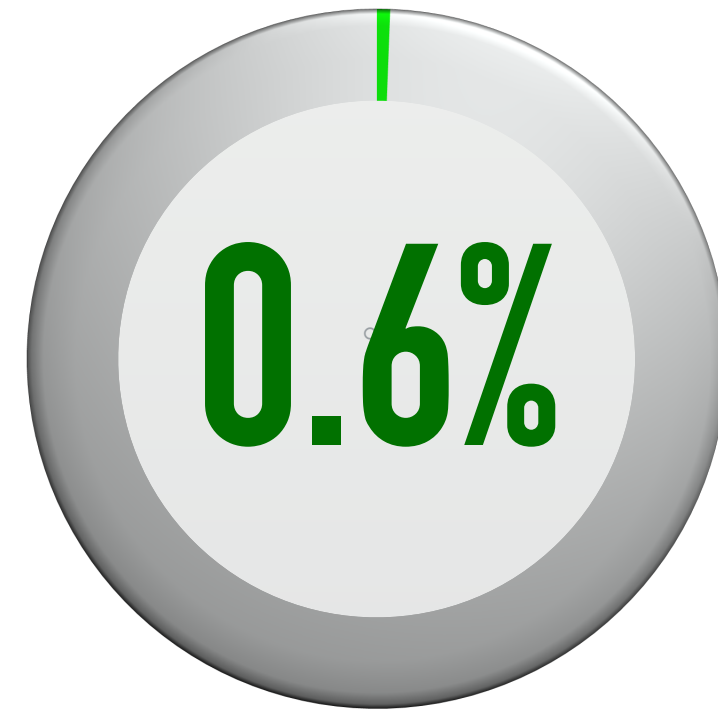
TOTAL GRAFT FAILURES

Prospective



VS

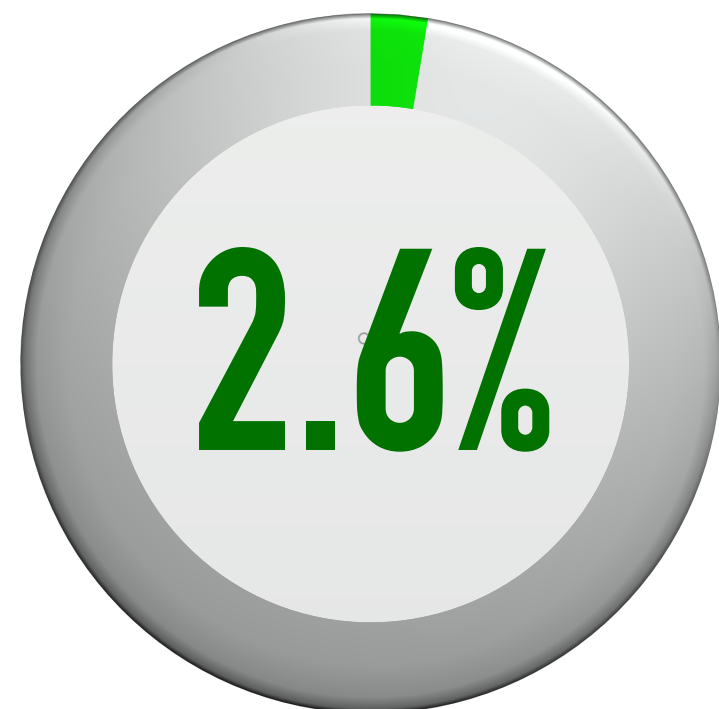
Retrospective



$P < 0.001$

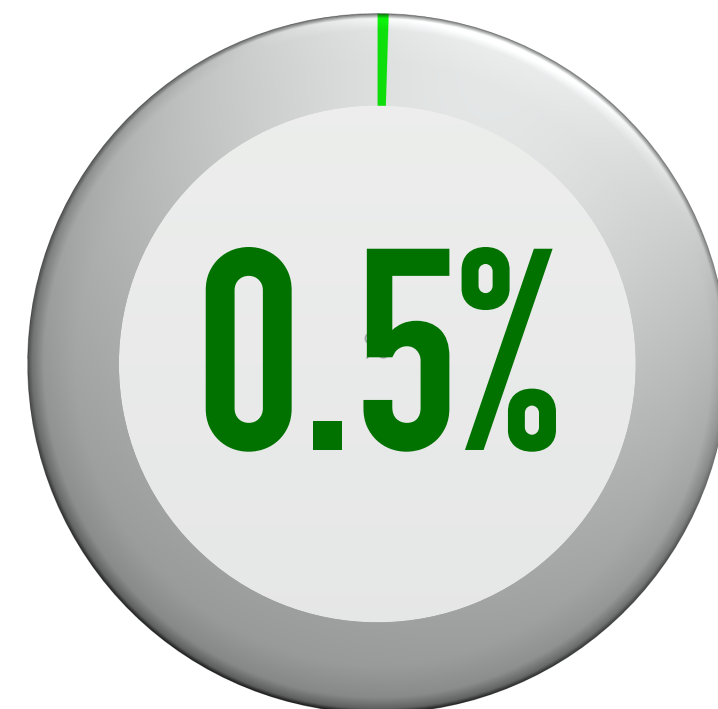
REOPERATIONS

Prospective



VS

Retrospective



$P < 0.001$

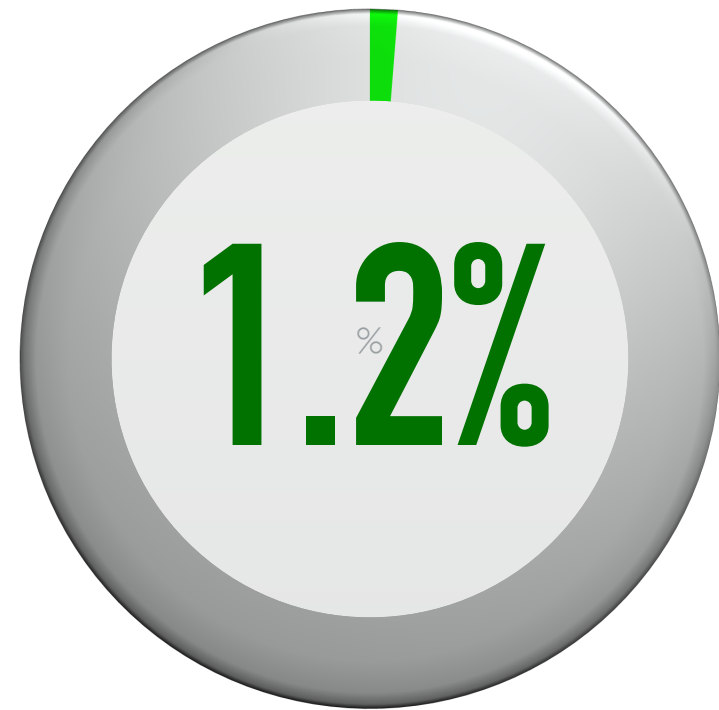


OUTCOMES



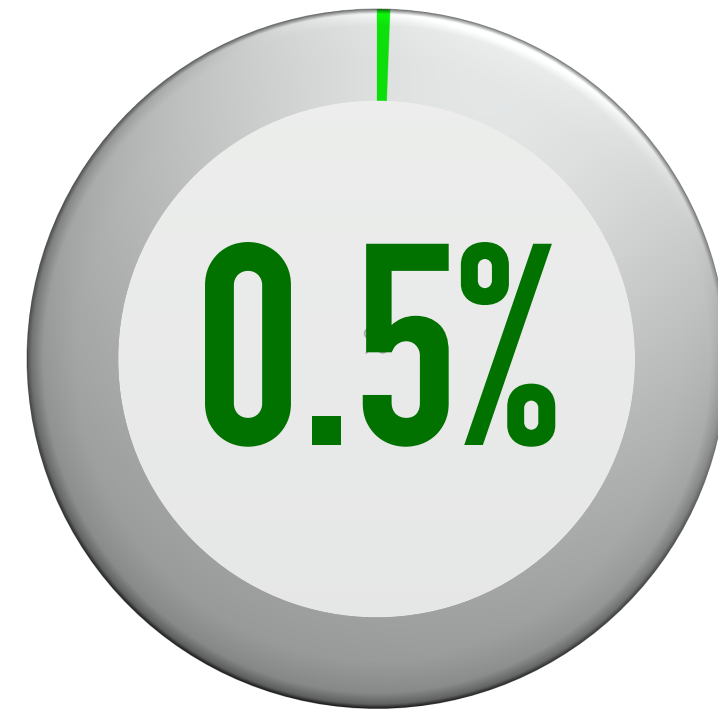
INFECTION

Prospective



VS

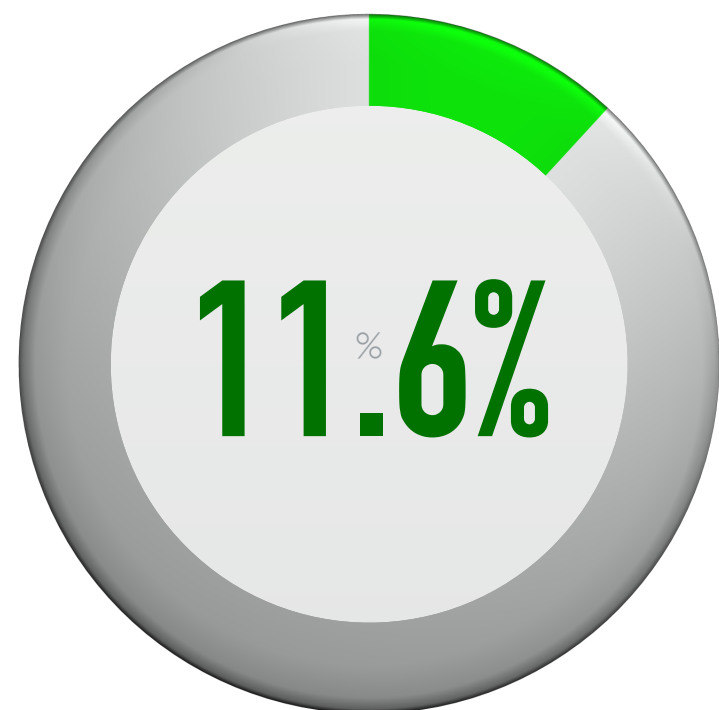
Retrospective



$P < 0.001$

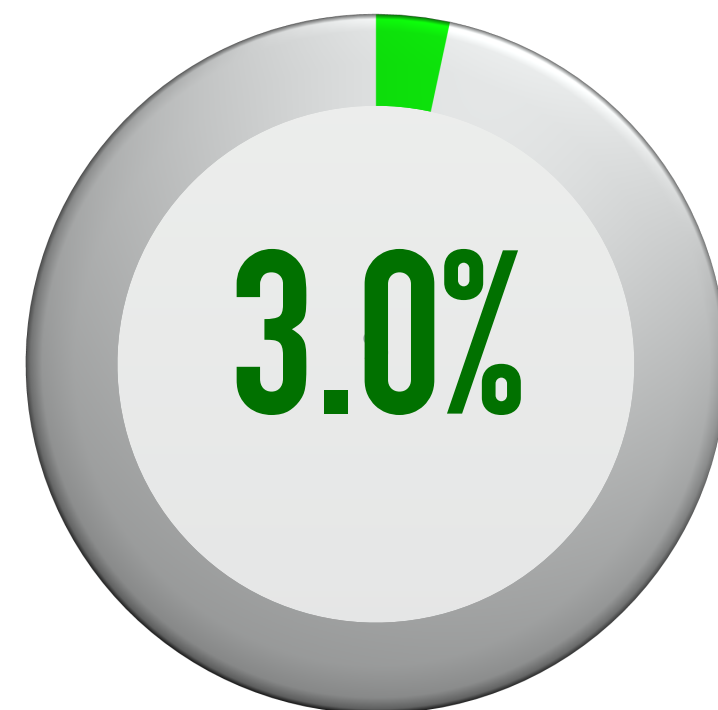
RESIDUAL LAXITY

Prospective



VS

Retrospective



$P < 0.001$

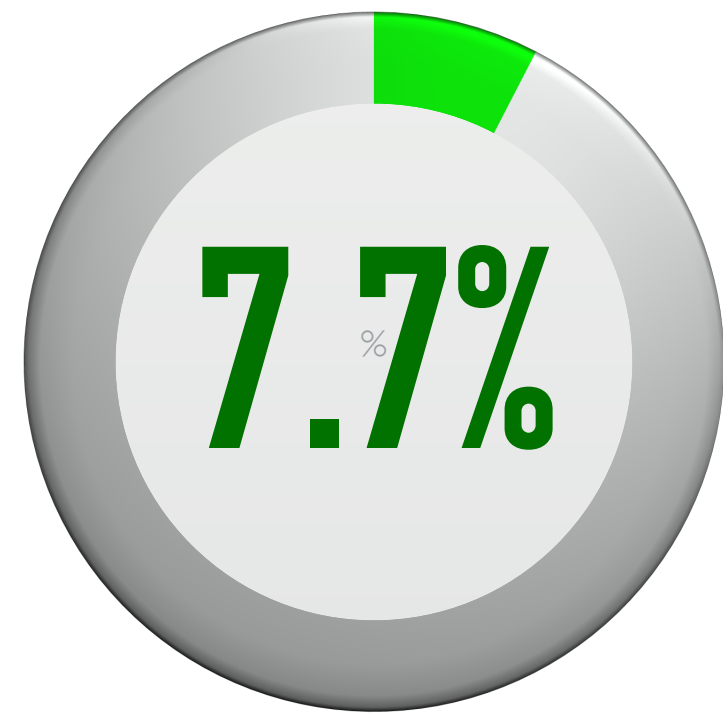


OUTCOMES

POST-OPERATIVE ARTHROFIBROSIS

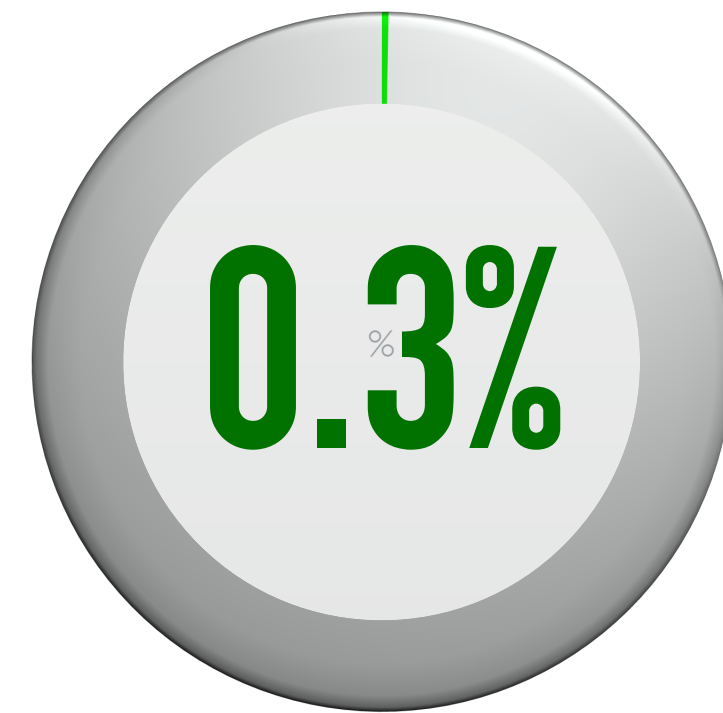


Prospective



VS

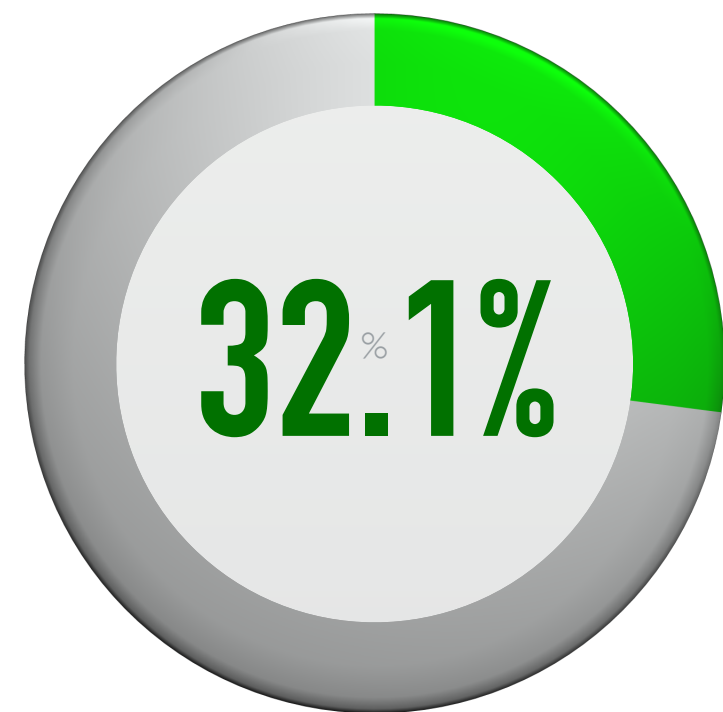
Retrospective



P < 0.001

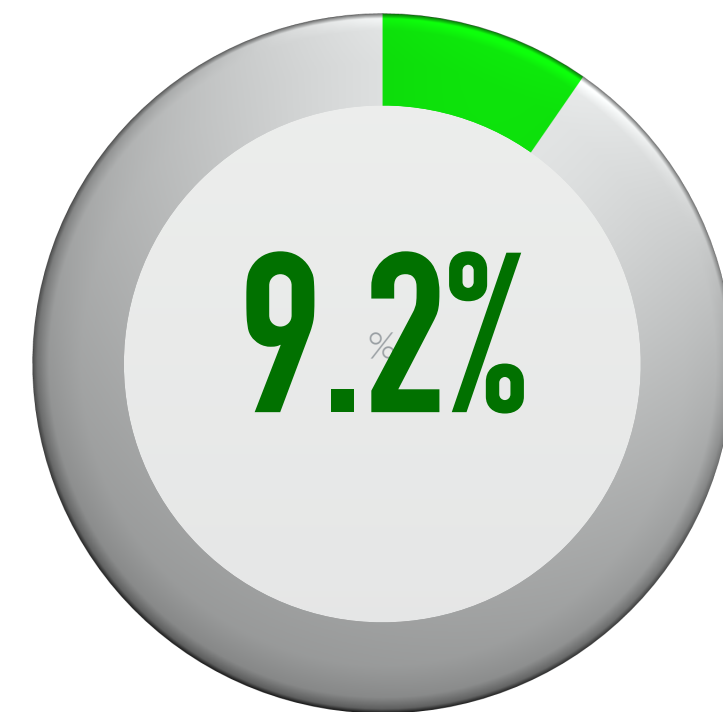
DEVELOPMENT OF DEGENERATIVE CHANGES

Prospective

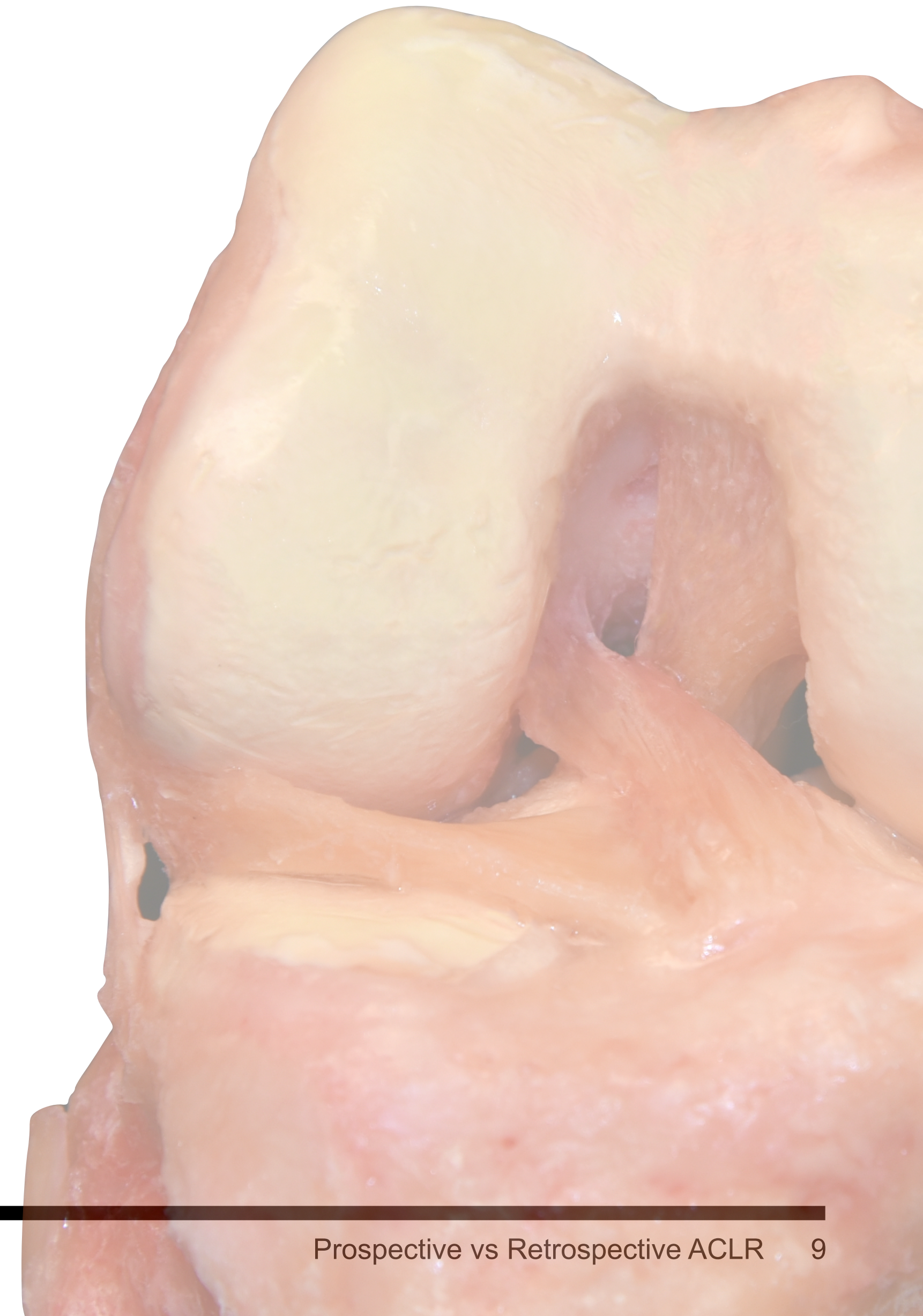


VS

Retrospective



P < 0.001



CONCLUSIONS



Retrospective studies underreport complications following ACLR with an ipsilateral BTB autograft. The incidence of postoperative complications is 7.9 times higher in prospective studies, which report an overall complication rate of 13.5%, with 6.2% rate of graft failure, 2.6% reoperation and 1.2% infection rates.



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