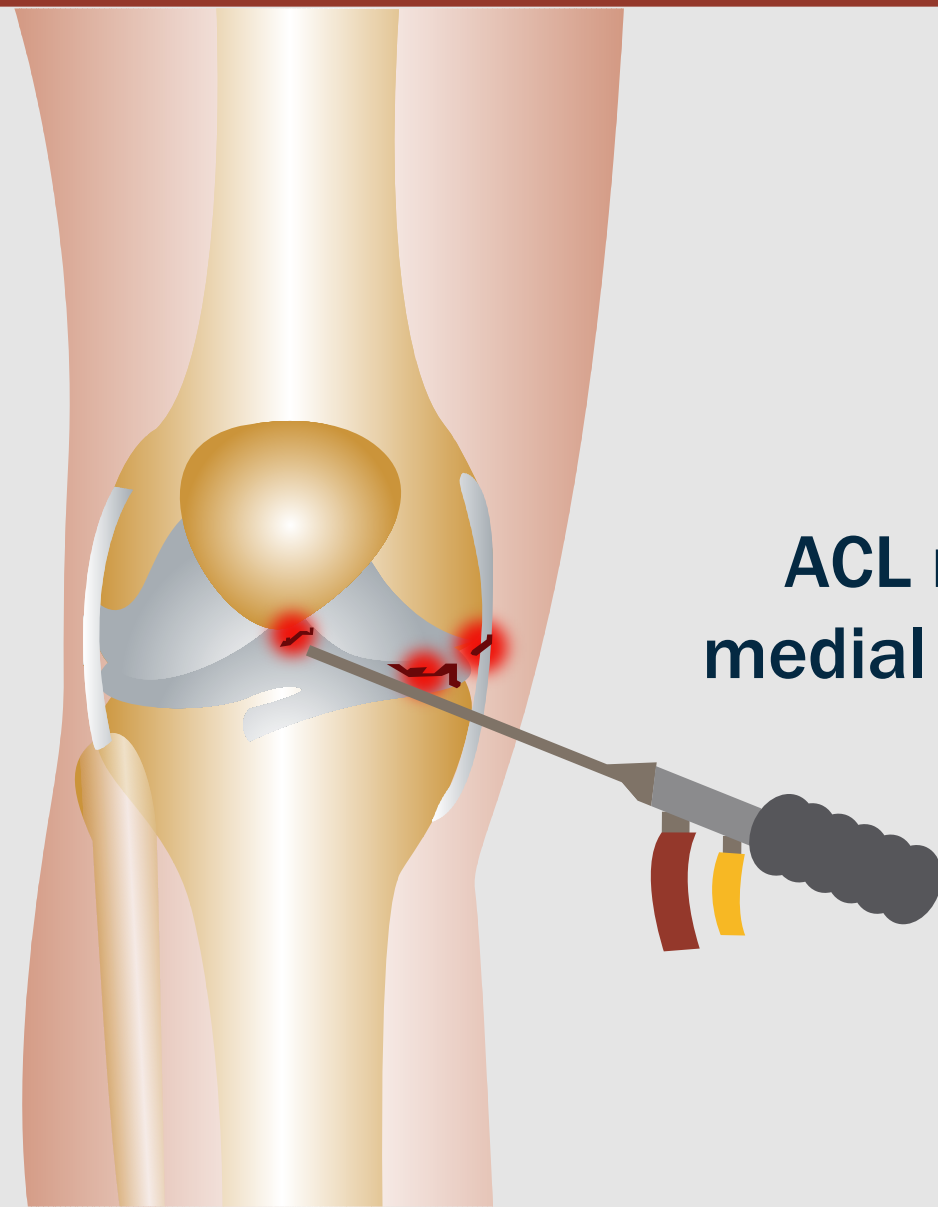


Gait Changes After ACL Reconstruction With Concomitant Meniscal Surgery

Knee osteoarthritis risk increases after anterior cruciate ligament reconstruction (ACLR) and arthroscopic meniscal surgery



ACL rupture with medial meniscus tear

Gait mechanics post-ACLR of 61 athletes with...

No medial meniscal tear (n=37) Partial medial meniscectomy (n=12) Medial meniscal repair (n=12)

...were compared using comprehensive motion analyses.

Gait changes: **Surgical** vs **Contralateral** limb...

No medial meniscal surgery

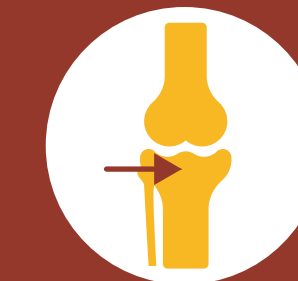
■ Symmetrical knee adduction moment



Normal joint loading

Partial medial meniscectomy

↑ Peak knee adduction moment



Shifted joint loading medially

Medial meniscal repair

↓ Peak knee adduction moment



Shifted joint loading laterally

For ACLR patients with a medial meniscus tear, gait and tibiofemoral joint loading differs based on the type of meniscal intervention.



These findings may explain conflicting evidence of peak knee adduction moment and elevated risk for osteoarthritis after ACLR in patients with concomitant medial meniscectomy or repair.

Gait Mechanics After ACL Reconstruction Differ According to Medial Meniscal Treatment

Capin et al. (2018)

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