

PRECISION MR®

Knee meniscus suture using the all-inside technique with Precision MR®

Study

Study type: Post-market, multicentre, single-arm, retrospective observational study

Study Objective

To evaluate the clinical effectiveness of all-inside meniscus suturing using Precision MR in patients undergoing arthroscopic surgery.

Target Population

- Adult patients (≥18 years) undergoing all-inside meniscus repair using Precision MR
- **Inclusion:** unstable longitudinal meniscal lesions ≥10 mm in red-red or red-white zones
- **Exclusion:** advanced chondral injury, other repair techniques, loss to follow-up.

Methodology / Treatment Protocol

- Post-market, multicentre, retrospective observational study
- Arthroscopic all-inside meniscus repair using Precision MR
- Data collected from medical records (July 2020 – February 2025)

- Analysis based on patient-reported outcomes recorded pre-injury and/or postoperatively

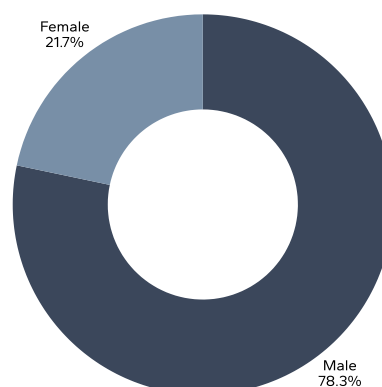
Endpoints / Outcome Measures

- IKDC (International Knee Documentation Committee): knee function
- Lysholm Knee Score: symptoms and functional performance
- Tegner Activity Scale: activity level

Study Population

- N = 83 patients
- Mean age: 36.7 ± 11.1 years (range 16–64)
- 56.6% of the cases had concomitant ACL ligament injury

Sex Distribution



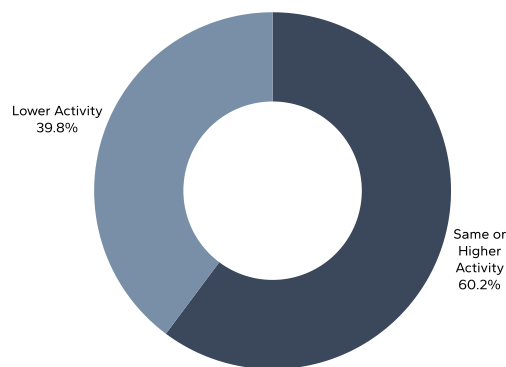
Follow-up

- Median follow-up: 15.6 months
- Range: 1.1 – 37.8 months

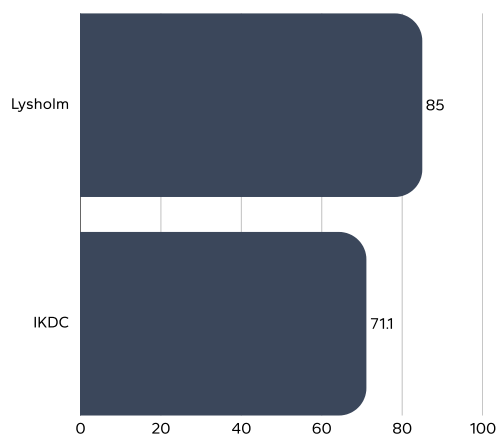
Results

- Significant difference in activity level (Tegner: median 6 → 4, however 60% of patients returned to same or higher activity level)
- Lysholm score: median 85 (good functional outcome)
- IKDC score: median 71.1 (satisfactory recovery)
- 0% reoperation rate during follow-up

Return to Activity



Functional Scores



Key Outcomes

- Clinically meaningful improvement in knee function and symptoms
- Most patients regained their pre-injury functional level (around 60% return to their same or higher activity)
- No reinterventions suggest sustained device performance over the follow-up period.

Conclusion

Precision MR demonstrated effective meniscal repair with good functional recovery and no reinterventions.

The technique supports meniscus preservation, with low complication rates and sustained clinical benefit.

Investigators / Study Authors



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Brazil – multicentre study