

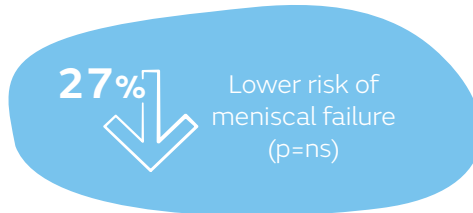
Systematic literature review with meta-analysis concluded that age should not be a sole or primary factor when determining meniscal repair suitability in older patients (≥40 years)

Sedgwick MJ, Saunders C, Getgood AMJ. Systematic review and meta-analysis of clinical outcomes following meniscus repair in patients 40 years and older. *Orthop J Sports Med.* 2024;12(8):23259671241258974.

Available at: [Orthopaedic Journal of Sports Medicine](#)  

Key points

Meniscal repair in older patients achieved:



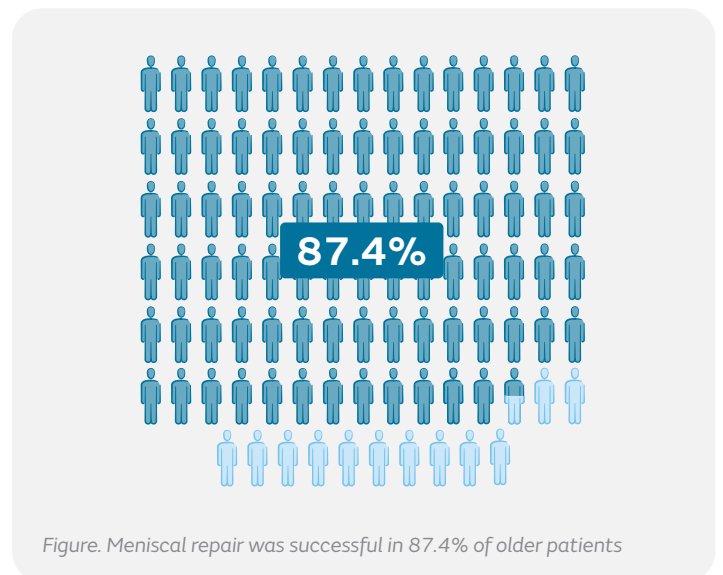
Overview

- Systematic literature review with meta-analysis to establish the clinical performance of meniscal repair in older patients (≥40 years) compared to younger patients (<40 years)
- Studies came from two previously published systematic literature reviews and an updated search on Embase and PubMed from 1 January 2017 – 29 September 2021 using search terms (“meniscus repair” OR “meniscal repair”) AND (“age” OR “old” OR “older”)
- In total, 14 articles were included and comprised 6 retrospective cohort studies, 5 retrospective case series studies and 3 prospective case series studies
- Outcomes of interest included success or failure rate (as defined by the study), rate of revision meniscectomy or meniscus repair rate and patient-reported outcome measures (PROMs)

Results

In the systematic literature review with meta-analysis:

- Across the published studies, 466 older patients (maximum age range: 50–70 years) and 4,423 younger patients underwent meniscal repair
- Meniscal repair was successful in 87.4% of older patients (401/459; Figure)
 - Meniscal failure occurred in 12.6% of older patients (58/459; 95% confidence interval [CI]: 7.3–19.4)
 - 9.8% of older patients had to undergo meniscal revision procedures (45/459; 95% CI: 6.2–15.0%)
- Risk of a meniscal failure was lower for older patients than younger patients (relative risk [RR] = 0.73; CI: 0.44–1.21; p=ns)
- Post-operative PROM, Lysholm score, in older patients was rated ‘good’ (86.7; 4 studies; 95% CI: 81.7–91.7) which was similar to younger patients (p=ns)



Conclusions

Meniscal repair in older patients can be performed successfully with a low failure rate and good patient-reported outcome measures. Therefore, age should not be the primary or sole factor when deciding whether to perform a meniscal repair.

Considerations

Risk of bias due to selection of patients, the decision to perform meniscus repair may be based on different criteria for younger and older patients affecting outcomes.