Geistlich

Bakowski et al. 2023. https://doi.org/10.1007/s00264-023-05711-2

Meniscus Repair via Collagen Membrane Wrapping and Bone Marrow Injection Results in Long-Term, Stable Meniscus Preservation.

Objectives

- To investigate the long-term success of arthroscopic matrix-based meniscus repair (AMMR®) using Chondro-Gide[®] combined with bone marrow aspirate injection in complex and severe meniscal tears.
- To examine the biomolecular mechanisms governing the healing process supported by the membrane.

Study Design



Clinical Outcomes

• IKDC and Lysholm subjective scores were

compared to pre-operative scores.

significantly improved at 2, 5, and 10 years

• Improvements were maintained throughout

Key Results

into the avascular zone of the meniscus underwent AMMR® treatment







10-year follow-up (FU)

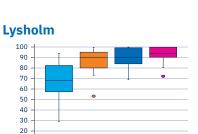
53 patients with complex tears reaching





10

pre-op 2-year FU 5-year FU 10-year FU



10 years of follow-up.

Biomolecular Analysis In vitro tests showed good survival and viability of bone marrow-derived cells seeded on the Chondro-Gide® membranes used in AMMR®.

• A positive modulation of tissue regeneration was confirmed by the presence of anti-inflammatory cytokines on Chondro-Gide® membranes seeded with isolated human monocytes.

IKDC 2000

100

90

80

70

50

40

30

20

10

Points 60

Conclusions

- AMMR[®] combined with bone marrow injection results in long-term, stable meniscus preservation in patients with severely damaged meniscus and offers a valuable alternative to meniscectomy.
- The study highlights the role of Chondro-Gide[®] and suggests a beneficial effect of the membrane on the healing process of the meniscus.

Link to publication



leading regeneration

Geistlich

Save the meniscus with AMMR®!

Chondro-Gide® Literature Highlight

This literature highlight addresses important aspects of the evidence for the use of Chondro-Gide®.

XPERIENCE THE EVIDENCE 100+ peer-reviewed publications

Chondro-Gide®

- The clinically proven collagen membrane for over 20 years¹
- Biocompatible and naturally resorbed²
- Easy to handle, supple and tear-resistant²
- Protects the biological factors from displacement^{3,4}



More details about our distribution partners:



Geistlich Pharma AG Bahnhofstrasse 40 6110 Wolhusen Switzerland ortho@geistlich.com www.geistlich-ortho.com

- 2 Geistlich Pharma AG, data on file (Bench tests and pre-clinical studies)
- 3 D'Ambrosi R, et al., Foot Ankle Int. 2017;38(5):485–95 (Clinical study)
- 4 Pascarella A, et al., Knee Surg Sports Traumatol Arthrosc. 2010;18(4):509–13 (Clinical study)