NUSURFACE BIBLIOGRAPHY - 2024

Clinical and Health Economic:

1. Javanbakht M, Mashayekhi A, Carlson A, et al. Cost-Effectiveness Analysis of a Medial Meniscus Replacement Prosthesis for the Treatment of Patients with Medial Compartment Pain in the United Kingdom [published online ahead of print,May 2022]. Pharmacoecon Open. 2022;10.1007/s41669-022-00336-4. doi:10.1007/s41669-022-00336-4 (https://doi.org/10.1007/s41669-022-00336-4)

2. Hershman E, McKeon B, Kaeding C, Edelson R, Greenleaf J, Gersoff W. Superior Improvements in Knee Pain and Function with a Novel Synthetic Medial Meniscus Replacement Implant Compared to Non-surgical Care in Subjects with Knee Pain Following Partial Meniscectomy: Two-year Results from Two Prospective US Clinical Trials. Orthopaedic Journal of Sports Medicine. July 2021. doi:10.1177/2325967121S00206

   (https://journals.sagepub.com/doi/10.1177/2325967121S00206)

3. Zaslav K, Farr J, Alfred R, Alley M, Dyle M, Gomoll A, Lattermann C, McKeon BP, Kaeding CC, Giel T, Hershman, EB. Treatment of post-meniscectomy knee symptoms with medial meniscus replacement results in greater pain reduction and functional improvement than non-surgical care. Knee Surgery, Sports Traumatology, Arthroscopy, April 2021. DOI: 10.1007/s00167-021-06573-0 (https://link.springer.com/article/10.1007/s00167-021-06573-0?)

4. McKeon BP, Zaslav K, Alfred R, Alley M, Edelson RH, Gersoff W, Greenleaf J, Kaeding C. Preliminary Results from a U.S. Clinical Trial of a Novel Synthetic Polymer Meniscus Implant. Orthopaedic Journal of Sports Medicine, September 2020. DOI: 10.1177/2325967120952414 (https://doi.org/10.1177/2325967120952414)

5. Alley R, Alfred R, Edelson R, Greenleaf J, Gersoff W, Gomoll A, Kaeding C, McKeon B, Zaslav K. Clinical Results of the NUsurface® Meniscus Implant versus Non-Surgical Controls at 24 months: Data from a Pooled cohort of a randomized controlled study and single arm study. Orthopaedic Journal of Sports Medicine. July 2020. doi:10.1177/2325967120S00367 (https://journals.sagepub.com/doi/10.1177/2325967120S00367)

6. Hershman EB, Jarvis JJ, Mick T, Dushaj K, Elsner JJ. Direct treatment cost outcomes among patients with medial meniscus deficiency: results from a 24-month surveillance study. Current Medical Research and Opinion, 2020 Jan 8; Vol. 36, Issue 3. DOI: 10.1080/03007995.2020.1713073 (https://doi.org/10.1080/03007995.2020.1713073)

7. De Coninck T, Elsner JJ, Linder-Ganz E, Cromheecke M, Shemesh M, Huysse W, Verdonk R, Verstraete K, Verdonk P. In-vivo evaluation of the kinematic behavior of an artificial medial meniscus implant: A pilot study using open-MRI. Clin Biomech (Bristol, Avon). 2014 Sep;29(8):898-905. (https://doi.org/10.1016/j.clinbiomech.2014.07.001)

8. Condello V, Ronga M, Linder-Ganz E, Zorzi C. Alternatives to Meniscus Transplantation Outside the United States. Cartilage Restoration, Practical Clinical Applications. Eds. Farr J and Gomoll AH. Springer New York, 2014, pp 223-249. (https://link.springer.com/chapter/10.1007/978-1-4614-0427-9_19)

Podium & Poster Presentations:

9. Zaslav K Clinical Results of the NUsurface® Meniscus Implant versus Non-Surgical Controls at 24 months: Data from a Pooled cohort of a randomized controlled study and single arm study (First 100 MERCURY at 2 Years) Podium Presentation ICRS Focus Meeting, November 19, 2022; Miami, Florida. (https://cartilage.org/icrs-summit-miami/programm/#day2022-11-19)

10. Verdonk P, Zaslav k, Condello V, Arbel R, Kaeding C, Alfred R, Alley R, McKeon B.; Superior Improvements in Knee Pain and Function of a Novel Synthetic Medial Meniscus Prosthesis to Non-Surgical Care: 3 Year Results Podium Presentation # RE05-209; 39th AGA Congress; September 17, 2022; Vienna, Austria. (https://sepla.intercongress.de/0kW3tJkhguQDZCpxv1zMzW/)

11. Gersoff W, Gomoll A, Hacker S, Hershman E, Verdonk P.; Synthetic Medial Meniscus Replacement Superior to Non-Surgical Control: 3-Year RCT Results; ICRS 2022 Annual Meeting, April 15, 2022; Berlin, Germany (https://cslide.ctimeetingtech.com/icrs2021/attendee/confcal/presentation/list?q=Hershman#presentation-abstract-647433327644)

12. Shabshin N, Zaslav K, Lattermam C, Kaeding C.; Two-Year MRI Follow-Up on Medial Compartment Cartilage: Superiority of Implanted Synthetic Medial Meniscus Over Non-Surgical Care; ICRS 2022 Annual Meeting, April 15, 2022; Berlin, Germany (https://cslide.ctimeetingtech.com/icrs2021/attendee/confcal/presentation/list?q=kaeding#presentation-abstract-643170046066)

13. Cooper AD, Greenleaf J, Edelson R.; Superior Improvements in Knee Pain and Function with a Novel Synthetic Medial Meniscus Replacement Prosthesis Compared to Nonsurgical Care in Subjects with Knee Pain following Partial Meniscectomy: Three-Year Results from Two Prospective US Clinical Trials; AAOS 2022 Annual Meeting; March 24, 2022; Chicago, Illinois. (https://submissions.mirasmart.com/AAOS2022/Itinerary/PresentationDetail.aspx?evdid=1018)

14. Gersoff W, McKeon B, Kaeding C, Edelson R, Greenleaf J, Easton R, Bankston L, Cooper A, Latterman C, Alfred R, Alley R, Farr J, Zaslav K, Giel T, Inzana J, Montgomery W, McCarty E, Kurzweil P, Berman J, Carter T, Hacker S, Jones D, Gomoll A, Hershman E; Superior Improvements in Knee Pain and Function with a Novel Synthetic Medial Meniscus Replacement Implant Compared to Non-surgical Care in Subjects with Knee Pain Following Partial Meniscectomy: Two-year Results from Two Prospective US Clinical Trials; AANA-AOSSM Combined 2021 Annual Meeting; July 8, 2021; Nashville, Tennessee. (https://aossm-aana.sportsmed.org/program/instructional-courses)

15. Kurzweil P, Farr J, Geil T, Gomoll A, McCarty E, Zaslav K; Clinical Results of the NUsurface® Medial Meniscus Implant versus Non-Surgical Controls: All 242 Patients of a pooled Randomized Control Trial and Single-Arm Observational Study at 12 Months; Podium Presentation, Award-Winning Research Papers and Feature Lectures Session; AANA 2020 Annual Meeting; May 8, 2020; Grapevine, Texas. (https://www.aana.org/aanaimis/sitedownloads/education/annualmeeting/2020/preliminary.pdf)

16. McKeon B, Lattermann C, Gomoll A, Greenleaf J, Edelson R, Zaslav K, Giel T, Kaeding C, Gersoff W, Alfred R, Alley M, Farr J, Carter T, Bankston L, Easton R, Cooper A, Montgomery W; Early Clinical Results of a Synthetic Medial Meniscus Replacement Implant Versus Non-Surgical Controls: First 74 Patients of an FDA Investigational Device Exemption Randomized Controlled Trial at 2 Years Follow-Up; Podium

Presentation, Sports Medicine VI Session; AAOS 2020 Annual Meeting; March 27, 2020; Orlando, Florida. (https://aaos.apprisor.org/epsSearchAAOS.cfm)

17. Agar G, Arbel R, Verdonk P, Condello V, McKeon BP, Zaslav KR, Kaeding C; Early Clinical Results of the NUsurface® Interpositional Knee Endoprosthesis versus Non-Surgical Controls: First 75 Patients of a Randomized Control Trial at 2 Years Follow-up; Podium Presentation, Sports Medicine Session; 39th IOA Annual Meeting; December 12, 2019; Tel Aviv, Israel. (https://ws.eventact.com/ioa2019/Program)

18. Gersoff W, McKeon B, Alfred R, Alley M, Edelson R, Greenleaf J; Clinical results of the NUsurface® Interpositional Endoprosthesis versus Non-Surgical Controls: First 100 Patients of a Pooled Randomized Control Trial and Single-Arm Observational Study; Podium Presentation #IN18-1227; DKOU 2019; October 22, 2019; Berlin, Germany. (https://dkou.org/en/programme/)

19. Zaslav K, McKeon B, Gersoff W, Alfred R, Alley M, Edelson R, Greenleaf J, Kaeding C; Clinical Results of the NUsurface® Implant vs Non-Surgical Controls: First 100 Patients from RCT and Single-Arm Observational Study at 12 Months; Podium Presentation #12.3.1; ICRS 15th World Congress; October 6, 2019; Vancouver, Canada. (https://cartilage.org/icrs2019-world-congress-vancouver/final-programme/)

20. Arbel R, Verdonk P, Condello V, McKeon BP, Zaslav KR, Kaeding C; Early Clinical Results of a Non-Anchored Interpositional Knee Endoprosthesis vs. Non-Surgical Controls: First 75 Patients of a Randomized Control Trial at 2 Years Follow-up; Podium Presentation # RE05-209; 36th AGA Congress; September 13, 2019; Manheim, Germany. (https://kongressarchiv.aga-kongress.info/wp-content/uploads/2019/10/AGA19_Abstractband.pdf)

21. Kaeding C; Early Results of a Polycarbonate-Urethane Medial Meniscus Implant; Symposium: Beyond Meniscus Repair: A Case-Based Approach; Podium Presentation; 2019 ISAKOS 12th Biennial Congress; May 13, 2019; Cancun, Mexico. (https://www.isakos.com/meetings/2019Congress/InteractiveAgenda2019?ExpandSection=1338#Session2359)

22. Hershman EB, Jarvis JL, Mick T, Dushaj K, Elsner JJ; Real-World Treatment Cost Outcomes among Patients with Medial Meniscus Deficiency: Results from a 24-Month Surveillance Study; Podium Presentation; Paper #243; AAOS 2019 Annual Meeting; March 12, 2019; Las Vegas, Nevada, USA. (https://www.aaos.org/uploadedFiles/2019_FinalProgram.pdf)

23. Condello V; NUsurface: Where Are We?; Podium Presentation, Meniscus Reconstruction Session B12; The Meniscus 4th International Meeting; February 1, 2019; Bologna, Italy.

24. (https://www.the- meniscus.org/sites/default/files/meniscus2019.pdf)

25. Verdonk P; Menisci Novel Approach; Podium Presentation Session 5.2; 5th ICRS Summit: Bio-Orthopaedics in Sports Medicine; January 17, 2019; San Diego, California, USA. (https://drignaciodallo.com.ar/wp-content/uploads/ICRS_FinalProgrammeSanDiego_final.pdf)

26. Hershman EB, Jarvis JL, Mick T, Dushaj K, Elsner JJ; Direct Treatment Cost Outcomes among Patients with Medial Meniscus Deficiency: Results from a 24-Month Surveillance Study; Poster Presentation PMS26; ISPOR Europe 2018; November 10 – 14, 2018; Barcelona, Spain. (https://www.ispor.org/heor-resources/presentations-database/presentation/ispor-europe-2018/comparative- treatment-costs-of-surgical-vs-non-surgical-patients-with-medial-meniscus-deficiency-results-from-a-24- month-surveillance-study)

Pre-Clinical Abstract, Posters and Podium Presentations:

27. Sukopp M, Shemesh M, Pruech E, Linder-Ganz E, Hacker S, Condello V, Schwer J, Ingatius A, Dürselen L, Seitz A M; Biomechanical Evaluation of the In-Situ Stability of a Novel Artificial Medial Meniscus Implant; ORS 2021 Annual Meeting; February 12-16, 2021; Virtual Annual Meeting. (https://www.ors.org/2021annualmeeting/)

28. Shemesh M, Shefy-Peleg A, Levy A, Shabshin N, Condello V, Arbel R, Gefen A. Effects of a Novel Medial Meniscus Implant on the Knee Compartments: Imaging and Biomechanical Aspects. Biomechanics and Modeling in Mechanobiology, 2020 March 31. DOI: 10.1007/s10237-020-01323-6 (https://pubmed.ncbi.nlm.nih.gov/32236747/)

29. Elsner JJ, Shemesh M, Shefy-Peleg A, Gabet Y, Zylberberg E, Linder-Ganz E. Quantification of in vitro wear of a synthetic meniscus implant using gravimetric and micro-CT measurements. J Mech Behav Biomed Mater. 2015; 49:310-20. (https://doi.org/10.1016/j.jmbbm.2015.05.017)

30. Shemesh M, Asher R, Zylberberg E, Guilak F, Linder-Ganz E, Elsner JJ. Viscoelastic properties of a synthetic meniscus implant. J Mech Behav Biomed Mater. 2014 Jan;29:42-55. (https://doi.org/10.1016/j.jmbbm.2013.08.021)

31. Elsner JJ, Eliaz N, and Linder-Ganz E. The use of polyurethanes in joint replacement. Materials for Joint Arthroplasty - Biotribology of Potential Bearings. Eds. Sonntag R and Kretzer JP. Imperial College Press, London, 2014. (https://doi.org/10.1142/9781783267170_0009)

32. Zur G, Linder-Ganz E, Elsner JJ, Shani J, Brenner O, Agar G, Hershman EB, Arnoczky SP, Guilak F, Shterling A. Chondroprotective effects of a polycarbonate-urethane meniscal implant: histopathological results in a sheep model. Knee Surg Sports Traumatol Arthrosc. 2011 Feb;19(2):255-63. (https://link.springer.com/article/10.1007%2Fs00167-010-1210-5)

33. Linder-Ganz E, Elsner JJ, Zur G, Shterling A, Arbel R, Condello V, Zorzi C, Guilak F, Hershman E. A novel Polycarbonate-urethane meniscal implant: from bench to clinical use. Cartilage 2010; 1: 2S. DOI: 10.1177/1947603510386038 (https://online.boneandjoint.org.uk/doi/abs/10.1302/1358-992X.94BSUPP_XL.ISTA2011-125)

34. Elsner JJ, Portnoy S, Guilak F, Shterling A, Linder-Ganz E. MRI-based characterization of bone anatomy in the human knee for size matching of a medial meniscal implant. J Biomech Eng. 2010 Oct;132(10):101008. (https://doi.org/10.1115/1.4002490)

35. Elsner JJ, Portnoy S, Zur G, Guilak F, Shterling A, Linder-Ganz E. Design of a free-floating polycarbonate-urethane meniscal implant using finite element modeling and experimental validation. J Biomech Eng. 2010 Sep;132(9):095001. (https://doi.org/10.1115/1.4001892)

36. Linder-Ganz E, Elsner JJ, Danino A, Guilak F, Shterling A. A novel quantitative approach for evaluating contact mechanics of meniscal replacements. J Biomech Eng. 2010 Feb;132(2):024501. (https://doi.org/10.1115/1.4000407)