

6. Literaturverzeichnis

1. **Albrecht-Olsen P, Kristensen G, Burgaard P, Joergensen U, Toerholm C** (1999). The Arrow vs. Horizontal Suture in Arthroscopy Meniscus Repair. *Knee Surg Sports Traumatol Arthrosc* 7: 268-273
2. **Allen CR, Wong EK, Livesay GA, Sakane M, Fu FH, Woo SL-Y** (2000). Importance of the medial meniscus in the anterior cruciate ligament-deficient knee. *J Orthop Res* 18: 109-115
3. **Altenburger R, Heller G** (1998). Langzeitergebnisse nach arthroskopischer und offener Operation einer isolierten traumatischen Meniskusläsion junger Erwachsener. Vergleich mit der normalen Population. *Arthroskopie* 11: 86-93
4. **Arnoczky SP, Lavagnino M** (2001). Tensile fixation strengths of absorbable meniscal repair devices as a function of hydrolysis time. *Am J Sports Med* 29: 118-123
5. **Asik M, Şener N, Akpinar S, Durmaz H, Göksan A** (1997). Strength of different meniscus suturing techniques. *Knee Surg Sports Traumatol Arthrosc* 5: 80-83.
6. **Asik M, Şener N** (2002). Failure Strength of repair devices versus meniscus suturing techniques. *Knee Surg Sports Traumatol Arthrosc* 10: 25-29
7. **Aspden RM, Yarker YE, Hukins DW** (1985). Collagen orientations in the meniscus of the knee joint. *J Anat* 140: 371-380
8. **Barber FA, Gurwitz SG** (1988). Inflammatory synovial fluid and absorbable suture strength. *Arthroscopy* 4: 272-277
9. **Barber FA** (1994). Accelerated rehabilitation for meniscus repairs. *Arthroscopy* 10: 206-210
10. **Barber FA, Click SD** (1997). Meniscus repair rehabilitation with concurrent anterior cruciate reconstruction. *Arthroscopy* 13: 433-437
11. **Barber FA, Herbert MA** (2000). Meniscal Repair Devices. *Arthroscopy* 16: 613-618
12. **Barber FA, Herbert MA, Richards DP** (2004). Load to Failure Testing of New Meniscal Repair Devices. *Arthroscopy* 20: 45-50
13. **Becker R, Schröder M, Stärke C, Urbach D, Nebelung W** (2001). Biomechanical investigations of different meniscal repair implants in comparison with horizontal sutures on human meniscus. *Arthroscopy* 17: 439-444
14. **Becker R, Stärke C, Heymann M, Nebelung W** (2002). Biomechanical properties under cyclic loading of seven meniscus repair techniques. *Clin Orthop Rel Res* 400: 236-245

15. **Bellemans J, Vandenneucker H, Labey L, VanAudekercke R** (2002). Fixation strength of meniscal repair devices. *Knee* 9: 11-14
16. **Boenisch UW, Faber KJ, Ciarelli M, Steadman JR, Arnoczky SP** (1999). Pull-Out Strength and Stiffness of Meniscal Repair Using Absorbable Arrows or Ti-Cron Vertical and Horizontal Loop Sutures. *Am J Sports Med* 27: 626-631
17. **Borden P, Nyland J, Caborn DN, Pienkowski D** (2003). Biomechanical comparison for the FasT-Fix Meniscal Repair Suture System with vertical mattress sutures and Meniscus Arrows. *Am J Sports Med* 31: 374-378
18. **Buseck MS, Noyes FR** (1991). Arthroscopic evaluation of meniscal repairs after anterior cruciate ligament reconstruction and immediate motion. *Am J Sports Med* 19: 489-494
19. **Cannon WD Jr.** (1996). Arthroscopic meniscal repair. Inside-out technique and results. *Am J Knee Surg* 9: 137-143
20. **Chang HC, Nyland J, Caborn DN, Burden R** (2005). Biomechanical Evaluation of Meniscal Repair Systems. A Comparison of the Meniscal Viper Repair System, the Vertical Mattress FasT-Fix Device and Vertical Mattress Ethibond Sutures. *Am J Sports Med* 33: 1-7
21. **DeHaven KE, Lohrer WA, Lovelock JE** (1995). Long-term results of open meniscal repair. *Am J Sports Med* 23: 524-530
22. **Dervin GF, Downing KJW, Keene GCR, McBride DG** (1997). Failure Strengths of Suture versus Biodegradable Arrow for Meniscal Repair: An In Vitro Study. *Arthroscopy* 13: 296-300
23. **Dürselen L, Schneider J, Galler M, Claes LE, Bauer G** (2002). Cyclic joint loading can affect the initial stability of meniscal fixation implants. *Clin Biomech* 18: 44-49
24. **Dürselen L, Hebisch A, Claes LE, Bauer G** (2003). Gapping phenomenon of longitudinal meniscal tears. *Clin Biomech* 18: 505-510
25. **Dürselen L, Hebisch A, Wagner D, Claes LE, Bauer G** (2004). Meniscal fixation implants sufficiently reduce gapping of longitudinal meniscal tears. *Arthroscopy* 20, Suppl. 1: e11 (SS 24). Dieser Artikel lag nur als Abstract vor.
26. **Fairbank TJ** (1948). Knee joint changes after meniscectomy. *J Bone Jont Surg Br* 30-B:664-670
27. **Field JR, Stanley RM** (2004). Suture characteristics following incubation in synovial fluid or phosphate buffered saline. *Injury* 35: 243-248
28. **Fithian DC, Kelly MA, Mow VC** (1990). Material properties and structure-function relationships in the menisci. *Clin Orthop Rel Res* 252: 19-31

29. **Fukuda Y, Takai S, Yoshino N, Murase K, Tsutsumi S, Ikeuchi K, Hirasawa Y** (2000). Impact load transmission of the knee joint-influence of leg alignment and the role of meniscus and articular cartilage. *Clin Biomech* 15: 516-521
30. **Greenwald D, Shumway S, Albear P, Gottlieb L** (1994). Mechanical comparison of 10 suture materials before and after *in vivo* incubation. *J Surg Res* 56: 372-377
31. **Ikada Y, Tsuji H** (2000). Biodegradable Polyesters for medical and ecological applications. *Macromol Rapid Commun* 21: 117-132
32. **Jaspers P, Lange A, Huiskers R, Van Rens T** (1980). The mechanical function of the meniscus: experiments on cadaveric pig knee joints. *Acta Orthop Belgica* 46: 663-668
33. **Johnson MJ, Lucas GL, Duseck JK, Henning CE** (1999). Isolated arthroscopic meniscal repair: a long-term outcome study (more than 10 Years). *Am J Sports Med* 27: 44-49
34. **Johnson RJ, Kettellkamp DB, Clark W, Leaverton P** (1974). Factors affecting late results after meniscectomy. *J Bone Joint Surg Am* 56:719-729
35. **Joshi MD, Suh K-J, Marui T, Woo SL-Y** (1995). Interspecies variation of compressive biomechanical properties of the meniscus. *J Biomech Mater Res* 29: 823-828
36. **Kirsch L, Kohn D, Glowik A** (1999). Forces in Medial and Lateral Meniscus Sutures During Knee Extension - An In Vitro Study. *J Biomech* 31 (Suppl 1): 104
37. **Kocabey Y, Taser O, Nyland J, Doral MN, Demirhan M, Caborn DN, Sarban S** (2006). Pullout strength of meniscal repair after cyclic loading: comparison of vertical, horizontal and oblique suture techniques. *Knee Surg Sports Traumatol Arthrosc* 14: 998-1003
38. **Kohn D, Siebert W** (1989). Meniscus suture techniques: a comparative biomechanical cadaver study. *Arthroscopy* 5: 324-327
39. **Laprell H, Stein V, Petersen W** (2002): Arthroscopic All-Inside Meniscus Repair Using a New Refixation Device : A Prospective Study. *Arthroscopy* 18: 387-393
40. **Levy IM, Torzilli PA, Warren RF** (1982). The effect of medial meniscectomy on anterior-posterior motion of the knee. *J Bone Joint Surg Am* 64: 883-888
41. **Lin HL, Chu CC, Grubb D** (1993). Hydrolytic degradation and morphologic study of poly-*p*-dioxanone. *J Biomed Mater Res* 27: 153-166
42. **Lynch MA, Henning CE, Glick KR Jr** (1983). Knee joint surface changes. *Clin Orthop* 172: 148-153
43. **MacConnail MA** (1950). The movements of bones and joints. *J Bone Joint Surg Br* 32: 244-252

44. **Markolf KL, Mensch JS, Amstutz HC** (1976). Stiffness and laxity of the knee: the contributions of the supporting structures. *J Bone Joint Surg Am* 58-A: 583-594
45. **Mariani PP, Sanori N, Adriani E, Mastantuono M** (1996). Accelerated Rehabilitation After Arthroscopic Meniscal Repair: A Clinical and Magnetic Resonance Imaging Investigation. *Arthroscopy* 12: 680-686
46. **McDermott ID, Richards SW, Hallam P, Tavares S, Lavelle JR, Amis AA** (2003). A biomechanical study of four different meniscal repair systems, comparing pull-out strengths and gapping under cyclic loading. *Knee Surg Sports Traumatol, Arthosc* 11: 23-29
47. **McDermott ID, Amis AA** (2006). The consequences of meniscectomy. *J Bone Joint Surg Br* 88-B:1549-1556
48. **Miller MD, Kline AJ, Jepsen KG** (2004). „All-inside“ meniscal repair devices. An experimental study in the goat model. *Am J Sports Med* 32: 858-862
49. **Morgan CD, Casscells SW** (1986). Arthroscopic meniscus repair: a safe approach to the posterior horns. *Arthroscopy* 2: 3-12.
50. **Morgan CD, Wojtys EM, Casscells CD, Casscells SW** (1991). Arthroscopic meniscal repair evaluated by second-look arthroscopy. *Am J Sports Med* 19: 632-637
51. **Morgan CD** (1991). The „all inside“ meniscus repair. *Arthroscopy* 7: 120-125.
52. **Nakano T, Aherne FX** (1992). Morphology and Water and Lipid Contents of Stifle Menisci of Growing Swine. *Can J Vet Res* 56: 165-167
53. **Ooi CP, Cameron RE** (2002). The hydrolytic degradation of polydioxanone (PDS II) sutures. Part I: Morphological aspects. *J Biomed Mater Res (Appl Biomater)* 63: 280-290
54. **Ooi CP, Cameron RE** (2002). The hydrolytic degradation of Polydioxanone (PDS II) sutures. Part II: Micromechanisms of deformation. *J Biomed Mater Res (Appl Biomater)* 63: 291-298
55. **Post WR, Akers SR, Kish V** (1997). Load to failure of common meniscal repair techniques: effect of suture technique and suture material. *Arthroscopy* 13: 731-736
56. **Radin E, Lamotte F, Maquet P** (1984). Role of the Menisci in the distribution of stress in the knee. *Clin Orthop* 185: 290-294
57. **Rankin CC, Lintner DM, Noble PC, Paravic V, Greer E** (2002). A Biomechanical Analysis of Meniscal Repair Techniques. *AM J Sports Med* 30: 492-497
58. **Raunest J, Derra E** (1990). Experimentelle Ergebnisse zur biomechanischen Belastbarkeit der Meniskusnaht im Bereich der Zone II. *Unfallchirurg* 93: 197-201

59. **Ray JA, Doddi N, Regula D, Williams JA, Melveger A** (1981). Polydioxanone (PDS), a novel monofilament synthetic absorbable suture. *Surg Gynecol Obstet* 153: 497-507
60. **Reigel CA, Mulholland JS, Morgan CD** (1996). Arthroscopic all-inside meniscus repair. *Clinics Sports Med* 15: 483-498
61. **Renström P, Johnson RJ** (1990). Anatomy and biomechanics of the menisci. *Clin Sports Med* 9: 523-538
62. **Rimmer MG, Nawana NS, Keene GC, Pearcey MJ** (1995). Failure strengths of different meniscal suturing techniques. *Arthroscopy* 11: 146-150
63. **Rodeo SA, Warren RF** (1996). Meniscal repair using the outside-to-inside Technique. *Clinics Sports Med.* 15: 469-481
64. **Schulte KR, Fu FH** (1996). Meniscal repair using the inside-to-outside technique. *Clin Sports Med* 15: 455-467.
65. **Scott GA, Jolly BL, Henning CE** (1986). Combined posterior incision and intra-articular repair of the meniscus. *J Bone Joint Surg* 68-A: 847-861
66. **Seil R, Rupp S, Kohn D** (2000). Cyclic testing of meniscal sutures. *Arthroscopy* 16: 505-510
67. **Seil R, Rupp S, Jurecka C, Rein R, Kohn D** (2001). Der Einfluss verschiedener Nahtstärken auf das Verhalten von Meniskusnähten unter zyklischer Zugbelastung. *Unfallchirurg* 104: 392-398
68. **Seil R, Rupp S, Jurecka C, Georg T, Kohn D** (2003). Biodegradable meniscus fixations: a comparative biomechanical study. *Rev Chir Orthop Reparatrice Appar Mot* 89: 35-43
69. **Shelbourne KD, Patel DV, Adsit WS, Porter DA** (1996). Rehabilitation after meniscal repair. *Clin Sports Med* 15: 595-612
70. **Shoemaker SC, Markolf KL** (1986). The Role of the meniscus in the anterior-posterior stability of the loaded anterior cruciate-deficient knee. *J Bone Joint Surg Am* 68: 71-79.
71. **Song EK, Lee KB** (1999). Biomechanical test comparing the load to failure of the biodegradable meniscus Arrow versus meniscal suture. *Arthroscopy* 15: 726-732
72. **Staerke C, Bochwitz C, Groebel K-H, Unterhauser F, Becker R** (2004). The effect of meniscus compression on the biomechanical properties of repaired meniscal lesions. Winner of the AGA-DonJoy Award 2003. *Arch Orthop Trauma Surg* 124: 221-225
73. **Voloshin AS, Wosk J** (1983). Shock absorbtion of meniscectomized and painful knees: a comparative in vivo study. *J Biomed Eng* 5: 157-161
74. **Walsh SP, Evans SL, O'Doherty DM, Barlow IW** (2001). Failure strengths of suture vs. Biodegradable arrow and staple for meniscal repair: an in vitro study. *Knee* 8: 151-156

## 6. Literaturverzeichnis

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75. **Walton M** (1989). Strength retention of chromic gut and monofilament synthetic absorbable suture materials in joint tissues. *Clin Orthop Rel Res* 242: 303-310
76. **Warren R** (1985). Arthroscopic meniscal repair. *Arthroscopy* 1: 170-172
77. **Zantop T, Eggers AK, Weimann A, Hassenpflug J, Petersen W** (2004). Initial fixation strength of flexible all-inside meniscus suture anchors in comparison to conventional suture technique and rigid anchors. *Am J Sports Med* 32: 863-869
78. **Zantop T, Eggers AK, Musahl V, Weimann A, Petersen W** (2005). Cyclic testing of flexible all-inside meniscus Suture anchors. *Am J Sports Med* 33: 388-394
79. **Zantop T, Temming K, Weimann A, Eggers AK, Raschke MJ, Petersen W** (2006). Elongation and structural properties of meniscal repair using suture techniques in distraction and shear force scenarios. Biomechanical evaluation using a cyclic loading protocol. *Am J Sports Med* 34: 799-805
80. **Zimmy ML, Albright DJ, Dabezies E** (1988). Mechanoreceptors in the human medial meniscus. *Acta Anat (Basel)* 133: 35-40