

7 Literatur

1. Sozialgesetzbuch Fünftes Buch Gesetzliche Krankenversicherung (SGB V) §12 (Wirtschaftlichkeitsgebot). 2004.
2. Adam F, Hammer DS, Pfautsch S, Westermann K: Early failure of a press-fit carbon fiber hip prosthesis with a smooth surface. *J Arthroplasty* 17:217-223, 2002
3. Arabmotlagh M, Hennigs T, Warzecha J, Rittmeister M: Bone strength influences periprosthetic bone loss after hip arthroplasty. *Clin Orthop Relat Res* 440:178-183, 2005
4. Bal BS, Greenberg DD, Buhrmester L, Aleto TJ: Primary TKA with a zirconia ceramic femoral component. *J Knee Surg* 19:89-93, 2006
5. Barbour LA, Kick SD, Steiner JF, LoVerde ME, Heddleston LN, Lear JL, Baron AE, Barton PL: A prospective study of heparin-induced osteoporosis in pregnancy using bone densitometry. *Am J Obstet Gynecol* 170:862-869, 1994
6. Barrack RL: Dislocation after total hip arthroplasty: implant design and orientation. *J Am Acad Orthop Surg* 11:89-99, 2003
7. Bathis H, Perlick L, Tingart M, Luring C, Zurakowski D, Grifka J: Alignment in total knee arthroplasty. A comparison of computer-assisted surgery with the conventional technique. *J Bone Joint Surg Br* 86:682-687, 2004
8. Boubaker eA, Daussin PA, Micallef JP, Roux C, Nougues J, Chammas M, Reyne Y, Bacou F: Changes in mass and performance in rabbit muscles after muscle damage with or without transplantation of primary satellite cells. *Cell Transplant* 11:169-180, 2002
9. Bozic KJ, Zurakowski D, Thornhill TS: Survivorship analysis of hips treated with core decompression for nontraumatic osteonecrosis of the femoral head. *J Bone Joint Surg Am* 81:200-209, 1999
10. BQS Bundesgeschäftsstelle für Qualitätssicherung. Qualitätsreport 2003 und 2004.
11. Bremen-Kuhne R, Stock D, Franke C: [Indomethacin--short-term therapy vs. single low dosage radiation for prevention of periarticular ossifications after total hip endoprosthesis]. *Z Orthop Ihre Grenzgeb* 135:422-429, 1997
12. Camp JF, Colwell CW, Jr.: Core decompression of the femoral head for osteonecrosis. *J Bone Joint Surg Am* 68:1313-1319, 1986
13. Celiker R, Gokce-Kutsal Y, Cindas A, Ariyurek M, Renda N, Koray Z, Basgoze O: Osteoporosis in rheumatoid arthritis: effect of disease activity. *Clin Rheumatol* 14:429-433, 1995
14. Chan PS, Vijan S, Morady F, Oral H: Cost-effectiveness of radiofrequency catheter ablation for atrial fibrillation. *J Am Coll Cardiol* 47:2513-2520, 2006
15. Charlton WP, Hozack WJ, Teloken MA, Rao R, Bissett GA: Complications associated with reimplantation after girdlestone arthroplasty. *Clin Orthop Relat Res* 119-126, 2003
16. Charnley J, Feagin JA: Low-friction arthroplasty in congenital subluxation of the hip. *Clin Orthop Relat Res* 98-113, 1973
17. Chauhan SK, Scott RG, Breidahl W, Beaver RJ: Computer-assisted knee arthroplasty versus a conventional jig-based technique. A randomised, prospective trial. *J Bone Joint Surg Br* 86:372-377, 2004
18. Chougle A, Hemmady MV, Hodgkinson JP: Severity of hip dysplasia and loosening of the socket in cemented total hip replacement. A long-term follow-up. *J Bone Joint Surg Br* 87:16-20, 2005

19. Clarke MT, Longstaff L, Edwards D, Rushton N: Tourniquet-induced wound hypoxia after total knee replacement. *J Bone Joint Surg Br* 83:40-44, 2001
20. Cobb AG, Schmalzreid TP: The clinical significance of metal ion release from cobalt-chromium metal-on-metal hip joint arthroplasty. *Proc Inst Mech Eng [H]* 220:385-398, 2006
21. D'Lima DD, Urquhart AG, Buehler KO, Walker RH, Colwell CW, Jr.: The effect of the orientation of the acetabular and femoral components on the range of motion of the hip at different head-neck ratios. *J Bone Joint Surg Am* 82:315-321, 2000
22. Dalury DF, Dennis DA: Mini-incision total knee arthroplasty can increase risk of component malalignment. *Clin Orthop Relat Res* 440:77-81, 2005
23. Deasy BM, Huard J: Gene therapy and tissue engineering based on muscle-derived stem cells. *Curr Opin Mol Ther* 4:382-389, 2002
24. del Pozo E, Lippuner K, Ruch W, Casez JP, Payne T, MacKenzie A, Jaeger P: Different effects of cyclosporin A on bone remodeling in young and adult rats. *Bone* 16:271S-275S, 1995
25. Dennis DA, Komistek RD, Walker SA, Cheal EJ, Stiehl JB: Femoral condylar lift-off in vivo in total knee arthroplasty. *J Bone Joint Surg Br* 83:33-39, 2001
26. Deo S, Gibbons CL, Emerton M, Simpson AH: Total hip replacement in renal transplant patients. *J Bone Joint Surg Br* 77:299-302, 1995
27. DeRosimo JF, Washabaugh CH, Ontell MP, Daood MJ, Watchko JF, Watkins SC, Ameredes BT, Ontell M: Enhancement of adult muscle regeneration by primary myoblast transplantation. *Cell Transplant* 9:369-377, 2000
28. Derrett S, Stokes EA, James M, Bartlett W, Bentley G: Cost and health status analysis after autologous chondrocyte implantation and mosaicplasty: a retrospective comparison. *Int J Technol Assess Health Care* 21:359-367, 2005
29. Dong H, Buxton M: Early assessment of the likely cost-effectiveness of a new technology: A Markov model with probabilistic sensitivity analysis of computer-assisted total knee replacement. *Int J Technol Assess Health Care* 22:191-202, 2006
30. Dudkiewicz I, Salai M, Ganel A, Blankstein A, Chechik A: Total hip arthroplasty in patients younger than 30 years of age following developmental dysplasia of hip (DDH) in infancy. *Arch Orthop Trauma Surg* 122:139-142, 2002
31. Dunn HK, Hess WE: Total hip reconstruction in chronically dislocated hips. *J Bone Joint Surg Am* 58:838-845, 1976
32. Englehardt R: [German patients as experimental rabbits. Spiegel Magazine reports on implantation of hip endoprostheses with ROBODOC]. *Z Orthop Ihre Grenzgeb* 141:21, 2003
33. Eriksson BI, Bauer KA, Lassen MR, Turpie AG: Fondaparinux compared with enoxaparin for the prevention of venous thromboembolism after hip-fracture surgery. *N Engl J Med* 345:1298-1304, 2001
34. Fisher DA, Watts M, Davis KE: Implant position in knee surgery: a comparison of minimally invasive, open unicompartmental, and total knee arthroplasty. *J Arthroplasty* 18:2-8, 2003
35. Furnes O, Espelhaug B, Lie SA, Vollset SE, Engesaeter LB, Havelin LI: Early failures among 7,174 primary total knee replacements: a follow-up study from the Norwegian Arthroplasty Register 1994-2000. *Acta Orthop Scand* 73:117-129, 2002
36. Grant SM, Goa KL: Iloprost. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in peripheral vascular disease, myocardial ischaemia and extracorporeal circulation procedures. *Drugs* 43:889-924, 1992

37. Gross AE, Wong P, Saleh KJ: Don't throw away the ring: indications and use. *J Arthroplasty* 17:162-166, 2002
38. Harris WH: Advances in surgical technique for total hip replacement: without and with osteotomy of the greater trochanter. *Clin Orthop Relat Res* 188-204, 1980
39. Hendrich C, Mehling I, Sauer U, Kirschner S, Martell JM: Cementless acetabular reconstruction and structural bone-grafting in dysplastic hips. *J Bone Joint Surg Am* 88:387-394, 2006
40. Hervey SL, Purves HR, Guller U, Toth AP, Vail TP, Pietrobon R: Provider Volume of Total Knee Arthroplasties and Patient Outcomes in the HCUP-Nationwide Inpatient Sample. *J Bone Joint Surg Am* 85-A:1775-1783, 2003
41. Hirakawa K, Mitsugi N, Koshino T, Saito T, Hirasawa Y, Kubo T: Effect of acetabular cup position and orientation in cemented total hip arthroplasty. *Clin Orthop Relat Res* 135-142, 2001
42. Ilchmann T, Gelzer JP, Winter E, Weise K: Acetabular reconstruction with the Burch-Schneider ring: an EBRA analysis of 40 cup revisions. *Acta Orthop* 77:79-86, 2006
43. Inoue T, Kawamura I, Matsuo M, Aketa M, Mabuchi M, Seki J, Goto T: Lesser reduction in bone mineral density by the immunosuppressant, FK506, compared with cyclosporine in rats. *Transplantation* 70:774-779, 2000
44. Irintchev A, Langer M, Zweyer M, Theisen R, Wernig A: Functional improvement of damaged adult mouse muscle by implantation of primary myoblasts. *J Physiol* 500 (Pt 3):775-785, 1997
45. Israelite C, Nelson CL, Ziarani CF, Abboud JA, Landa J, Steinberg ME: Bilateral core decompression for osteonecrosis of the femoral head. *Clin Orthop Relat Res* 441:285-290, 2005
46. Jenny JY, Boeri C: Computer-assisted implantation of total knee prostheses: a case-control comparative study with classical instrumentation. *Comput Aided Surg* 6:217-220, 2001
47. Jerosch J, Peuker E, Philipps B, Filler T: Interindividual reproducibility in perioperative rotational alignment of femoral components in knee prosthetic surgery using the transepicondylar axis. *Knee Surg Sports Traumatol Arthrosc* 10:194-197, 2002
48. Katz JN, Losina E, Barrett J, Phillips CB, Mahomed NN, Lew RA, Guadagnoli E, Harris WH, Poss R, Baron JA: Association between hospital and surgeon procedure volume and outcomes of total hip replacement in the United States medicare population. *J Bone Joint Surg Am* 83-A:1622-1629, 2001
49. Kelley SS: High hip center in revision arthroplasty. *J Arthroplasty* 9:503-510, 1994
50. Kim SY, Kim DH, Kim YG, Oh CW, Ihn JC: Early failure of hemispheric hydroxyapatite-coated acetabular cups. *Clin Orthop Relat Res* 446:233-238, 2006
51. Kinzel V, Ledger M, Shakespeare D: Can the epicondylar axis be defined accurately in total knee arthroplasty? *Knee* 12:293-296, 2005
52. Kobayashi S, Saito N, Horiuchi H, Iorio R, Takaoka K: Poor bone quality or hip structure as risk factors affecting survival of total-hip arthroplasty. *Lancet* 355:1499-1504, 2000
53. Krischak GD, Wachter NJ, Zabel T, Suger G, Beck A, Kinzl L, Claes LE, Augat P: Influence of preoperative mechanical bone quality and bone mineral density on aseptic loosening of total hip arthroplasty after seven years. *Clin Biomech (Bristol, Avon)* 18:916-923, 2003
54. Kunt T. Stellungnahme nach § 92 Abs. 3a SGB V. 2006.
55. Laskin RS: An oxidized Zr ceramic surfaced femoral component for total knee arthroplasty. *Clin Orthop Relat Res* 191-196, 2003
56. Lewinnek GE, Lewis JL, Tarr R, Compere CL, Zimmerman JR: Dislocations after total hip-replacement arthroplasties. *J Bone Joint Surg Am* 60:217-220, 1978

57. Lionberger DR, Noble PC: Celecoxib does not affect osteointegration of cementless total hip stems. *J Arthroplasty* 20:115-122, 2005
58. Lodder MC, de Jong Z, Kostense PJ, Molenaar ET, Staal K, Voskuyl AE, Hazes JM, Dijkmans BA, Lems WF: Bone mineral density in patients with rheumatoid arthritis: relation between disease severity and low bone mineral density. *Ann Rheum Dis* 63:1576-1580, 2004
59. Lutz H, Klose R: [Preparation for surgery from an anesthesiological viewpoint]. *Med Welt* 30:639-644, 1979
60. Marcen R, Caballero C, Pascual J, Teruel JL, Tenorio M, Ocana J, Villafruela JJ, Burgos FJ, Fernandez AM, Muriel A, Ortuno J: Lumbar bone mineral density in renal transplant patients on neoral and tacrolimus: a four-year prospective study. *Transplantation* 81:826-831, 2006
61. Matziolis G, Erli HJ, Rau HM, Klever P, Bosserhoff AK, Paar O: [Heparin facilitates proliferation of human osteoblasts in vitro]. *Orthopade* 31:575-581, 2002
62. Matziolis G, Stifter J, Perka C: The Functional Knee Joint Axis: a Reproducible Femoral Rotation Landmark in Navigated Knee Arthroplasty. *International Society for Computer Assisted Orthopaedic Surgery (CAOS) Montreal 2006*: 2006
63. Matziolis G, Tuischer J, Kasper G, Thompson M, Bartmeyer B, Krocker D, Perka C, Duda G: Simulation of cell differentiation in fracture healing: mechanically loaded composite scaffolds in a novel bioreactor system. *Tissue Eng* 12:201-208, 2006
64. McCollum DE, Gray WJ: Dislocation after total hip arthroplasty. Causes and prevention. *Clin Orthop Relat Res* 159-170, 1990
65. Monegal A, Navasa M, Guanabens N, Peris P, Pons F, Martinez de Osaba MJ, Ordi J, Rimola A, Rodes J, Munoz-Gomez J: Bone disease after liver transplantation: a long-term prospective study of bone mass changes, hormonal status and histomorphometric characteristics. *Osteoporos Int* 12:484-492, 2001
66. Movsowitz C, Epstein S, Fallon M, Ismail F, Thomas S: Cyclosporin-A in vivo produces severe osteopenia in the rat: effect of dose and duration of administration. *Endocrinology* 123:2571-2577, 1988
67. O'Connor MI: Wound healing problems in TKA: just when you thought it was over! *Orthopedics* 27:983-984, 2004
68. Oberst M, Bertsch C, Wurstlin S, Holz U: [CT analysis of leg alignment after conventional vs. navigated knee prosthesis implantation. Initial results of a controlled, prospective and randomized study]. *Unfallchirurg* 106:941-948, 2003
69. Paavilainen T, Hoikka V, Solonen KA: Cementless total replacement for severely dysplastic or dislocated hips. *J Bone Joint Surg Br* 72:205-211, 1990
70. Pagnano W, Hanssen AD, Lewallen DG, Shaughnessy WJ: The effect of superior placement of the acetabular component on the rate of loosening after total hip arthroplasty. *J Bone Joint Surg Am* 78:1004-1014, 1996
71. Perka C, Tohtz S, Matziolis G: [Axial correction in knee revision arthroplasty]. *Orthopade* 35:136-142, 2006
72. Persson PE, Nilsson OS, Berggren AM: Do non-steroidal anti-inflammatory drugs cause endoprosthetic loosening? A 10-year follow-up of a randomized trial on ibuprofen for prevention of heterotopic ossification after hip arthroplasty. *Acta Orthop* 76:735-740, 2005
73. Peters CL, Curtain M, Samuelson KM: Acetabular revision with the Burch-Schnieder antiprotrusio cage and cancellous allograft bone. *J Arthroplasty* 10:307-312, 1995

74. Petersen MM, Nielsen PT, Lebech A, Toksvig-Larsen S, Lund B: Preoperative bone mineral density of the proximal tibia and migration of the tibial component after uncemented total knee arthroplasty. *J Arthroplasty* 14:77-81, 1999
75. Pfirrmann CW, Notzli HP, Dora C, Hodler J, Zanetti M: Abductor tendons and muscles assessed at MR imaging after total hip arthroplasty in asymptomatic and symptomatic patients. *Radiology* 235:969-976, 2005
76. Piriou P, Sagnet F, Norton MR, de Loubresse CG, Judet T: Acetabular component revision with frozen massive structural pelvic allograft: average 5-year follow-up. *J Arthroplasty* 18:562-569, 2003
77. Pitto RP, Schikora N: Acetabular reconstruction in developmental hip dysplasia using reinforcement ring with a hook. *Int Orthop* 28:202-205, 2004
78. Plus Orthopedics AG: Rekonstruktionsring. Aarau, Schweiz 2006
79. Puhl W. Kampagne „Orthopädie bewegt“. 2004.
80. Ranawat CS, Dorr LD, Inglis AE: Total hip arthroplasty in protrusio acetabuli of rheumatoid arthritis. *J Bone Joint Surg Am* 62:1059-1065, 1980
81. Robertsson O, Dunbar M, Pehrsson T, Knutson K, Lidgren L: Patient satisfaction after knee arthroplasty: a report on 27,372 knees operated on between 1981 and 1995 in Sweden. *Acta Orthop Scand* 71:262-267, 2000
82. Rosler J, Perka C: The effect of anatomical positional relationships on kinetic parameters after total hip replacement. *Int Orthop* 24:23-27, 2000
83. Sanz MJ, Johnston B, Issekutz A, Kubes P: Endothelin-1 causes P-selectin-dependent leukocyte rolling and adhesion within rat mesenteric microvessels. *Am J Physiol* 277:H1823-H1830, 1999
84. Schaffer AW, Pilger A, Engelhardt C, Zweymüller K, Ruediger HW: Increased blood cobalt and chromium after total hip replacement. *J Toxicol Clin Toxicol* 37:839-844, 1999
85. Schröder JH, Heller MO, Matziolis G, Taylor WR, Sharenkov A, Wulsch P, Duda GN, Perka C: Belastungsoptimierte Operationsplanung von Hüftendoprothesen. *Z Orthop Ihre Grenzgeb* 142:515-516, 2004
86. Schutzer SF, Harris WH: High placement of porous-coated acetabular components in complex total hip arthroplasty. *J Arthroplasty* 9:359-367, 1994
87. Sharkey PF, Hozack WJ, Rothman RH, Shastri S, Jacoby SM: Insall Award paper. Why are total knee arthroplasties failing today? *Clin Orthop Relat Res* 7-13, 2002
88. Shinar AA, Harris WH: Bulk structural autogenous grafts and allografts for reconstruction of the acetabulum in total hip arthroplasty. Sixteen-year-average follow-up. *J Bone Joint Surg Am* 79:159-168, 1997
89. Siebenrock KA, Tannast M, Kim S, Morgenstern W, Ganz R: Acetabular reconstruction using a roof reinforcement ring with hook for total hip arthroplasty in developmental dysplasia of the hip-osteoarthritis minimum 10-year follow-up results. *J Arthroplasty* 20:492-498, 2005
90. Spangeli MJ, Berry DJ, Trousdale RT, Cabanelo ME: Uncemented acetabular components with bulk femoral head autograft for acetabular reconstruction in developmental dysplasia of the hip: results at five to twelve years. *J Bone Joint Surg Am* 83-A:1484-1489, 2001
91. Sparmann M, Wolke B, Czupalla H, Banzer D, Zink A: Positioning of total knee arthroplasty with and without navigation support. A prospective, randomised study. *J Bone Joint Surg Br* 85:830-835, 2003
92. Stockl B, Nogler M, Rosiek R, Fischer M, Krismer M, Kessler O: Navigation improves accuracy of rotational alignment in total knee arthroplasty. *Clin Orthop Relat Res* 180-186, 2004

93. Tang WM, Chiu KY: Primary total hip arthroplasty in patients with rheumatoid arthritis. *Int Orthop* 25:13-16, 2001
94. Tasaka K, Kitazumi K: The control of endothelin-1 secretion. *Gen Pharmacol* 25:1059-1069, 1994
95. Weber M, Berry DJ: Abductor avulsion after primary total hip arthroplasty. Results of repair. *J Arthroplasty* 12:202-206, 1997
96. Wong AS, New AM, Isaacs G, Taylor M: Effect of bone material properties on the initial stability of a cementless hip stem: a finite element study. *Proc Inst Mech Eng [H]* 219:265-275, 2005
97. Yoon TR, Rowe SM, Chung JY, Song EK, Lee KB, Jung ST, Mulyadi D: Acetabular revision using acetabular roof reinforcement ring with a hook. *J Arthroplasty* 18:746-750, 2003