

Vollständige Literatur zu Robert Sonntag et al.: Die Qual der Wahl: Welche Hüft-Gleitpaarung für die orthopädische Praxis? OUP 04-2017

Literatur

- Affatato S, Leardini W, Jedenmalm A, Ruggeri O, Toni A: Larger diameter bearings reduce wear in metal-on-metal hip implants. *Clin Orthop Relat Res* 2007; 456: 153–158
- Affatato S, Spinelli M, Zavalloni M, Traina F, Carmignato S, Toni A: Ceramic-On-Metal for Total Hip Replacement: Mixing and Matching Can Lead to High Wear. *Artificial Organs* 2010; 34: 319–323
- Australian National Joint Replacement Registry. Annual Report. 2013
- Australian National Joint Replacement Registry. Annual Report. 2016
- Bergmann G, Bender A, Dymke J, Duda G, Damm P: Standardized Loads Acting in Hip Implants. *PLoS One* 2016; 11: e0155612
- Bragdon CR, Doerner M, Martell J, Jarrett B, Palm H, Malchau H: The 2012 John Charnley Award: Clinical multicenter studies of the wear performance of highly crosslinked remelted polyethylene in THA. *Clin Orthop Relat Res* 2013; 471: 393–402
- Clarke IC, Gustafson A, Jung H, Fujisawa A: Hip-simulator ranking of polyethylene wear: comparisons between ceramic heads of different sizes. *Acta Orthop Scand* 1996; 67: 128–132
- Cole JC, Lemons JE, Eberhardt AW: Gamma irradiation alters fatigue-crack behavior and fracture toughness in 1900H and GUR 1050 UHMWPE. *J Biomed Mater Res* 2002; 63: 559–566
- Damm P, Graichen F, Rohlmann A, Bender A, Bergmann G: Total hip joint prosthesis for in vivo measurement of forces and moments. *Med Eng Phys* 2010; 32: 95–100
- Dobbs HS, Minski MJ: Metal ion release after total hip replacement. *Biomaterials* 1980; 1: 193–198
- Dowson D, Hardaker C, Flett M, Isaac GH: A hip joint simulator study of the performance of metal-on-metal joints: Part II: Design. *J Arthroplasty* 2004; 19 (8, Supplement 1): 124–130
- EFORT, Arbeitsgemeinschaft Endoprothetik, Deutsche Arthroshilfe e.V.: Aktuelle Konsens-Empfehlungen zur Handhabung von Metall-Metall-Gleitpaarungen. 2012
- Endo M, Tipper JL, Barton DC, Stone MH, Ingham E, Fisher J: Comparison of wear, wear debris and functional biological activity of moderately crosslinked and non-crosslinked polyethylenes in hip prostheses. *Proc Inst Mech Eng H* 2002; 216: 111–122
- Epinette JA, Manley MT: No differences found in bearing related hip survivorship at 10–12 years follow-up between patients with ceramic on highly crosslinked polyethylene bearings compared to patients with ceramic on ceramic bearings. *J Arthroplasty* 2014; 29: 1369–1372
- Fisher J: Bioengineering reasons for the failure of metal-on-metal hip prostheses: an engineer's perspective. *J Bone Joint Surg Br* 2011; 93-B: 1001–1004
- Galvin A, Brockett C, Williams S et al.: Comparison of wear of ultra-high molecular weight polyethylene acetabular cups against surface-engineered femoral heads. *Proc Inst Mech Eng H* 2008; 222: 1073–1080
- Galvin AL, Jennings LM, Tipper JL, Ingham E, Fisher J: Wear and creep of highly crosslinked polyethylene against cobalt chrome and ceramic femoral heads. *Proc Inst Mech Eng H* 2010; 224: 1175–1183
- Geerdink CH, Grimm B, Ramakrishnan R, Rondhuis J, Verburg AJ, Tonino AJ: Crosslinked polyethylene compared to conventional polyethylene in total hip replacement: pre-clinical evaluation, in-vitro testing and prospective clinical follow-up study. *Acta Orthop* 2006; 77: 719–725
- Gutmanas EY, Gotman I: PIRAC Ti nitride coated Ti-6Al-4V head against UHMWPE acetabular cup-hip wear simulator study. *J Mater Sci Mater Med* 2004; 15: 327–330
- Habermann B, Ewald W, Rauschmann M, Zichner L, Kurth AA: Fracture of ceramic heads in total hip replacement. *Arch Orthop Trauma Surg* 2006; 126: 464–470
- Hamilton WG, McAuley JP, Dennis DA, Murphy JA, Blumenfeld TJ, Politi J: THA With Delta Ceramic on Ceramic: Results of a Multicenter Investigational Device Exemption Trial. *Clin Orthop Relat Res* 2010; 468: 358–366
- Harman MK, Banks SA, Hodge WA: Wear analysis of a retrieved hip implant with titanium nitride coating. *J Arthroplasty* 1997; 12: 938–945
- Hartmann A, Hannemann F, Lutzner J et al.: Metal ion concentrations in body fluids after implantation of hip replacements with metal-on-metal bearing – systematic review of clinical and epidemiological studies. *PLoS One* 2013; 8: e70359
- Hatton A, Nevelos JE, Nevelos AA, Banks RE, Fisher J, Ingham E: Alumina-alumina artificial hip joints. Part I: a histological analysis and characterisation of wear debris by laser capture microdissection of tissues retrieved at revision. *Biomaterials* 2002; 23: 3429–3440
- Hermida JC, Bergula A, Chen P, Colwell CW, Jr., D'Lima DD: Comparison of the wear rates of twenty-eight and thirty-two-millimeter femoral heads on cross-linked polyethylene acetabular cups in a wear simulator. *J Bone Joint Surg Am* 2003; 85-a: 2325–2331
- Howie DW, Holubowycz OT, Middleton R: Large femoral heads decrease the incidence of dislocation after total hip arthroplasty: a randomized controlled trial. *J Bone Joint Surg Am* 2012; 94: 1095–1102
- Ingram JH, Stone M, Fisher J, Ingham E: The influence of molecular weight, crosslinking and counterface roughness on TNF-alpha production by macrophages in response to ultra high molecular weight polyethylene particles. *Biomaterials* 2004; 25: 3511–3522
- Kadar T, Hallan G, Aamodt A et al.: Wear and migration of highly cross-linked and conventional cemented polyethylene cups with cobalt chrome or Oxinium femoral heads: a randomized radiostereometric study of 150 patients. *J Orthop Res* 2011; 29: 1222–1229
- Koo KH, Ha YC, Jung WH, Kim SR, Yoo JJ, Kim HJ: Isolated fracture of the ceramic head after third-generation alumina-on-alumina total hip arthroplasty. *J Bone Joint Surg Am* 2008; 90: 329–336
- Langton DJ, Jameson SS, Joyce TJ, Hallab NJ, Natsu S, Nargol AVF: Early failure of metal-on-metal bearings in hip resurfacing and large-diameter total hip replacement: A consequence of excess wear. *J Bone Joint Surg Br* 2010; 92-B: 38–46
- Losina E, Barrett J, Mahomed NN, Barron JA, Katz JN: Early failures of total hip replacement: effect of surgeon volume. *Arthritis Rheum* 2004; 50: 1338–1343

32. Mai K, Verioti C, Ezzet K, Copp S, Walker R, Colwell C: Incidence of 'Squeaking' After Ceramic-on-Ceramic Total Hip Arthroplasty. *Clin Orthop Relat Res* 2009; 468: 413–417
33. Manley M, Ong K, Lau E, Kurtz SM: Effect of volume on total hip arthroplasty revision rates in the United States Medicare population. *J Bone Joint Surg Am* 2008; 90: 2446–2451
34. Massin P, Lopes R, Masson B, Mainard D: Does BioloX Delta ceramic reduce the rate of component fractures in total hip replacement? *Orthop Traumatol Surg Res* 2014; 100 (6 Suppl): 317–321
35. Morison ZA, Patil S, Khan HA, Bogoch ER, Schemitsch EH, Waddell JP: A randomized controlled trial comparing Oxinium and cobalt-chrome on standard and cross-linked polyethylene. *J Arthroplasty* 2014; 29 (9 Suppl): 164–168
36. Mutimer J, Devane PA, Adams K, Horne JG: Highly crosslinked polyethylene reduces wear in total hip arthroplasty at 5 years. *Clin Orthop Relat Res* 2010; 468: 3228–3233
37. National Joint Registry for England Wales, Northern Ireland and the Isle of Man. Annual Report. 2015
38. Owen DH, Russell NC, Smith PN, Walter WL: An estimation of the incidence of squeaking and revision surgery for squeaking in ceramic-on-ceramic total hip replacement: a meta-analysis and report from the Australian Orthopaedic Association National Joint Registry. *Bone Joint J* 2014; 96-B: 181–187
39. Pandit H, Glyn-Jones S, McLardy-Smith P et al.: Pseudotumours associated with metal-on-metal hip resurfacings. *J Bone Joint Surg Br* 2008; 90: 847–851
40. Pappas MJ, Makris G, Buechel FF: Titanium Nitride Ceramic Film Against Polyethylene: A 48 Million Cycle Wear Test. *Clin Orthop Relat Res*. 1995; 317: 64–70
41. Park YS, Hwang SK, Choy WS, Kim YS, Moon YW: Ceramic Failure After Total Hip Arthroplasty with an Alumina-on-Alumina Bearing. *J Bone Joint Surg Am* 2006; 88: 780–787
42. Prokopetz JJ, Losina E, Bliss RL, Wright J, Baron JA, Katz JN: Risk factors for revision of primary total hip arthroplasty: a systematic review. *BMC Musculoskelet Disord* 2012; 13: 251
43. Purdue PE, Koulouvaris P, Nestor BJ, Sulco TP: The central role of wear debris in periprosthetic osteolysis. *HSS J* 2006; 2: 102–113
44. Raimondi MT, Pietrabisca R: The in-vivo wear performance of prosthetic femoral heads with titanium nitride coating. *Biomaterials* 2000; 21: 907–913
45. Saikko V, Ahlroos T, Revitzer H, Rytö O, Kuosmanen P: The effect of acetabular cup position on wear of a large-diameter metal-on-metal prosthesis studied with a hip joint simulator. *Tribol Int* 2013; 60: 70–76
46. Savarino L, Baldini N, Ciapetti G, Pellanani A, Giunti A: Is wear debris responsible for failure in alumina-on-alumina implants? *Acta Orthop* 2009; 80: 162–167
47. Smith AJ, Dieppe P, Vernon K, Porter M, Blom AW: Failure rates of stemmed metal-on-metal hip replacements: analysis of data from the National Joint Registry of England and Wales. *Lancet* 2012; 379: 1199–1204
48. Sonntag R, Reinders J, Müller U, Kretzer JP: Wahl der richtigen Gleitpaarung in der Hüftendoprothetik. *Z Orthop Unfall* 2015; 153: 587–596
49. Tower SS, Currier JH, Currier BH, Lyford KA, Van Citters DW, Mayor MB: Rim cracking of the cross-linked longevity polyethylene acetabular liner after total hip arthroplasty. *J Bone Joint Surg Am* 2007; 89: 2212–2217
50. Traina F, Tassinari E, De Fine M, Bordini B, Toni A: Revision of Ceramic Hip Replacements for Fracture of a Ceramic Component. *AAOS Exhibit Selection* 2011; 93: e147
51. Traina F, De Fine M, Di Martino A, Faldini C: Fracture of Ceramic Bearing Surfaces following Total Hip Replacement: A Systematic Review. *Biomed Res Int* 2013; 2013: 157247
52. Waewsawangwong W, Goodman SB: Unexpected Failure of Highly Cross-Linked Polyethylene Acetabular Liner. *J Arthroplasty* 2012; 27: 323.e1–323.e4
53. Weiss C, Gdaniec P, Hoffmann NP, Hothan A, Huber G, Morlock MM: Squeak in hip endoprosthesis systems: An experimental study and a numerical technique to analyze design variants. *Med Eng Phys* 2010; 32: 604–609
54. Willert HG, Buchhorn GH, Fayyazi A et al.: Metal-on-Metal Bearings and Hypersensitivity in Patients with Artificial Hip Joints: A Clinical and Histomorphological Study. *J Bone Joint Surg Am* 2005; 87: 28–36
55. Zietz C, Fabry C, Middelborg L, Fulda G, Mittelmeier W, Bader R: Wear testing and particle characterisation of sequentially crosslinked polyethylene acetabular liners using different femoral head sizes. *J Mater Sci Mater Med* 2013; 24: 2057–2065
56. Zietz C, Fabry C, Reinders J et al.: Wear testing of total hip replacements under severe conditions. *Expert Rev Med Devices* 2015; 12: 393–410