

## Tribology of articulating joints

Boldface: the three most important publications.

No	Title
3:1	Yuan X, Ryd L: New approach for the study of musculo-skeletal movement. EORS 1999. Abstract.
3:2	Yuan X, Ryd L: Accuracy analysis for RSA. A computer simulation study on 3D marker reconstruction. <i>J Biomechanics</i> 2000;33(4):493-498.
3:3	Yuan X, Ryd L, Huiskes R: Wear particle diffusion and tissue differentiation in TKA implant fibrous interfaces. <i>J Biomech</i> 2000;33(10)1279-1286.
3:4	Hansson U, Blunn G, Ryd L: Reactions to particulate wear debris in different mesenchymal tissues. Studies on the nonreplaced compartment from revised uniknees.
3:5	Lausmaa J, Carlsson L, Möller K and Rökkum M: A study of abnormal wear in retrieved clinical acetabular cups abstract. 14th European Biomaterial Conference the Hague Sept 1998.
3:6	Kesteris U, Jonsson K, Robertsson O, Önerfält R, Wängstrand H: Polyethylene wear and synovitis in total hip arthroplasty. A sonographic study of 48 hips. <i>J Arthroplasty</i> 1999;14(2):138-43
3:7	Kesteris U, Lausmaa J, Carlsson L, Lidgren L, Wängstrand H, Önerfält R: Contamination of polyethylene cups with polymethylmethacrylate particles. (An experimental study). Accepted for oral presentation "3rd EBRA – Meeting (Migration, subsidence, wear after hip replacement)" in Tübingen, Nov. 1998. Accepted for oral presentation EFORT Meeting in Brussels June 1999. Submitted to <i>J Arthroplasty</i> Sept 2000.
3:8	Olofsson A, Kesteris U, Önerfält R: Wear and migration of Harris-Galante II acetabular cups. 29 cases followed for 3-6 years. <i>Hip International</i> 1999;9(4)200-205
3:9	Hoseini M, Lausmaa J, Boldizar A. Tribological study of HDPE, Nordic Polymer Days, Copenhagen, May 31 – June 2, 1999 (ABSTRACT).
3:10	Hoseini M, Lausmaa J, Boldizar A. Tribological investigation of oriented HDPE, Regional Meeting Polymer Processing Society, Bangkok, December 1-3, 1999 (EXTENDED ABSTRACT)
3:11	Hoseini M, Lausmaa, Ericsson D. A new screening method for testing of materials for artificial joints, Nordtrib, Helsinki, June 6-8, 2000. Abstract.
3:12	Wang J, Kjellson F, Tanner K, Lidgren L: Influence of stem insertion time on the static shear strength and interface integrity of the stem-cement interface. To be presented at the ORS Forty-Sixth Annual Meeting in Orlando, Florida, March 14, 2000
3:13	Sabokbar A, Hirayama T, Diaz J, Itonaga I, Murray D W, Lidgren L, Athanasou N A: Effect on osteoclast differentiation and bone resorption of bone cement containing two new radio-opaque contrast media. Presented at the ORS Forty-Sixth Annual Meeting in Orlando, Florida, March 14, 2000

No	Title
3:14	Broitman E, Macdonald W, Helligren N, Radnóczy G, Wennerberg A, Brunell I, Jacobsson M, Hultman L: Carbon Nitride Films on Orthopaedic Substrates.
3:15	Yuan X: Accuracy Analysis of RSA and Development of Roentgen Single-plane Photogrammetric Analysis. Thesis, Department of Orthopedics, LU, Lund 1999.
3:16	Kesteris U, Robertsson O, Wingstrand H, Önerfält R. Cumulative revision rate with the ScanHipR Classic I total hip prosthesis. 1660 cases followed for 2-12 years. Acta Orthop Scand 1998;69(2):133-137.
3:17	Ilchmann T, Kesteris T, Wingstrand H. EBRA improves the accuracy of radiographic analysis of acetabular cup migration. Acta Orthop Scand 1998;69(2):119-124.
3:18	Ilchmann T, Kesteris U, Wingstrand H. Effect of pelvic tilt on radiographic migration and wear measurements after total hip arthroplasty. Hip International 1998;8-1:16-23.
3:19	Kesteris U, Hardinge K, Ilchmann T, Wingstrand H. Polyethylene wear in prosthetic hips with loose components. J Arthroplasty Aug 2002. Accepted.
3:20	Yuan X, Ryd L, Blankevoort L. Error propagation for relative motion determined from marker positions. J Biomechanics 1997;30:989-992.
3:21	Ryd L, Yuan X, Löfgren H. Methods to determine the accuracy of Roentgen Stereophotogrammetric Analysis (RSA). Acta Orthop Scand 2000;71(4):403-408.
3:22	Yuan X, Ryd L, Tanner KE, Lidren L. Roentgen single-plane photogrammetric analysis (RSPA), I – a new approach for the study of musculo-skeletal movement. Submitted to J Bone Joint Surg 2000..
3:23	Yuan X, Ryd L, Tanner KE, Lidgren L. Roentgen single-plane photogrammetric analysis (RSPA), II – In vitro experimental comparison between RSPA with RSA. J. Bone Joint Surg. 84-B, 908-914, 2002..
<b>3:24</b>	<b>Kesteris U, Carlsson L, Haraldsson C, Lausmaa J, Lidgren L, Önerfält R, Wingstrand H. Contamination of polyethylene cups with polymethyl methacrylate particles: an experimental study. J Arthroplasty 2001;16:905-8.</b>
3:25	Hoseini M, Lausmaa J. A new screening method for the tribological investigation of artificial joints. 2nd World Tribology Congress, Vienna, September 3-7, 2001 (oral, extended abstract).
3:26	Lausmaa J, Eriksson D, Hoseini M, Johansson A, Sjövall P. Increased wear of UHMWPE caused by calcium phosphate precipitation. 17th European Biomaterials Conference, London, England, September 12-14, 2001 (oral).
3:27	Hoseini M, Lausmaa J, Boldizar A. Tribological investigation of oriented HDPE. <i>J. Biomed. Mater. Res.</i> : <i>Appl. Biomat.</i> 61, 634-40, 2002
3:28	Kesteris U. Wear and Loosening in Cemented Hip Arthroplasty. Thesis. Department of Orthopedics, University of Lund, 2001.
<b>3:29</b>	<b>Kjellson F, Wang J-S, Almén T, Mattsson A, Klaveness J, Tanner KE, Lidgren L. Tensile properties of a bone cement containing non-ionic contrast media. Journal of Materials Science: Materials in Medicine 2001, 12:889-94.</b>
3:30	Kjellson F, Wang J-S, Almén T, Mattsson A, Klaveness J, Tanner KE, Lidgren L. Tensile properties of a bone cement containing non-ionic contrast media. European Society for Biomaterials 2001 Conference, 12th-14th September 2001, London

No	Title
3:31	Luisetto Y, Maurer F, Wesslén B, Lidgren L, Yamac T. Effect of Artificial Aging on Irradiated UHMWPE. Nordic Polymer Days, June 2001, Stockholm
3:32	Luisetto Y, Maurer F, Wesslén B, Lidgren L, Yamac T. Relationship between Wear and Oxidation in Artificially Aged Ultra High Molecular Weight Polyethylene. European Society of Biomaterials, Sept 2001, London
3:33	Hoseini, M, Tribology of artificial joints, Chalmers University of Technology, Göteborg, 2001.
<b>3:34</b>	<b>Luisetto, Y, Wesslén B, Maurer F, Lidgren L. The effects of irradiation, annealing, temperature and artificial aging on the oxidation, mechanical properties and fracture mechanisms of UHMWPE. J. Biomed. Mater. Res. 1;67A(3):908-917, 2003.</b>
3:35	Luisetto Y, Wesslén B, Maurer F, Lidgren L. The effect of crosslinking and oxidation on wear and wear particles morphology of UHMWPE. In manuscript.
3:36	Luisetto Y, Wesslén B, Maurer F, Lidgren L. The effect of $\gamma$ -irradiation on morphology and cross-linking density of Vitamin E containing UHMWPE.. In manuscript.
3:37	Luisetto Y, Wesslén B, Maurer F, Lidgren L. The effect of $\gamma$ -irradiation and artificial aging on oxidation, crystallinity, mechanical properties and wear properties of Vitamin E containing UHMWPE. In manuscript.
3:38	Luisetto Y, Wesslén B, Maurer F, Lidgren L. Addition of vitamin E to UHMWPE using Super Critical Carbon Dioxide. Nordic Polymer Days, Helsinki, Finland, May 2000.
3:39	Kjellson, F, Almén T, McCarthy, I, Lidgren L. A new clinically relevant method of measuring the attenuation of different bone cement opacifiers. J Bone Joint Surg. Accepted.
3:40	Kjellson F, Almén T, McCarthy I, Lidgren L. Bone cement X-Ray contrast media: A clinically relevant method of measuring their efficacy. In manuscript.
3:41	Skinner J, Todo S, Taylor M, Wang J-S, Pinskerova V, Scott G. Should the cement mantle around the femoral component be thick or thin? J Bone Joint Surg 85-B:45-51, 2003
3:42	Wang J-S, Taylor M, Flivik G, Lidgren L. Factors affecting the static shear strength of the stem-cement interface. Journal of Materials Science: Materials in Medicine 14:1-7, 2003
3:43	Warren McDonald: Component Integration in Total Hip Arthroplasty: Preclinical Evaluation, Department of Orthopedics, LU, Lund 2000.
3:44	Yannick Luisetto: Degradation Mechanism and Effects of Vitamin E Addition in UHMWPE Hip Implants, Department of Orthopedics, LU, Lund, 2002.
3:45	Ana Alonso Vázquez: Assessment of ankle arthrodesis with internal fixation using finite element analysis, Department of Orthopedics, LU, Lund, 2003