Appendix A

Bibliography and Copies of Papers and Abstracts on PPD-Meditech's DCM Polyethylene and Monoblock Products

BIBLIOGRAPHY - PPD Direct Compression Molded UHMWPE

Tribological, Mechanical, Physical Properties

- 1. KR St. John, "Effects of Cross-linking on the Wear of Polyethylene After 5-Years Real Time Aging in Air", reference citation unsure, request for information on reference sent to Dr St John on 1/25/09 best guess 2006 Soc for Biomaterials poster presentation.
- 2. KR St. John and RA Poggie, "Characterization of the Wear Performance of Cross-Linked UHMWPE and Relationship to Molding Procedures", ASTM STP 1445, Cross-linked and Thermally Treated UHMWPE for Joint Replacements, SM Kurtz, R Gsell, and J Martell, Eds., ASTM International, West Conshohocken, PA, 2003, pp 221-227.
- 3. B Furman, S Agner, S Li, "Is There a Difference in Wear Properties of Commercially Available Crosslinked UHMWPE?", 48th annual meeting of the ORS, Poster 1038, 2002.
- 4. K Greer, F Chan, P Liao, D McNulty, R King, "Wear of Crosslinked as a Function of Irradiation Dose and Crosslink Density", 48th annual meeting of the ORS, Paper 0052, 2002.
- 5. James B. Stiehl, Kenneth St. John, Richard Afflitto, Robert A. Poggie, "Cross-linking of Polyethylene with Gamma Radiation Can Significantly Reduce Wear", Scientific Exhibit (SE 038) 68th Annual Meeting of the AAOS, February 28 March 4, 2001, San Francisco, CA.
- 6. Furman, Li, et al. Annual Society for Biomaterials Annual Meeting, 2001, pages 33 and 583.
- 7. R.A. Poggie, "Polyethylene: Current and Future", Chairman & co-presenter of Special Symposia, the 25th Annual Society for Biomaterials Meeting, April 28-May 2, 1999, Providence, RI.
- 8. R.A. Poggie, "Polyethylene 101", Chairman & co-presenter for ORS Polyethylene Workshop, the 45th Annual ORS, February 1 4, 1999, Anaheim, CA.
- 9. R. A. Poggie, R. Afflitto, R. G. Averill, and K. St. John, "The Wear Resistance of Two Types of Cross-Linked Polyethylene Materials", the 12th Annual International Society for Technology in Arthroplasty, September 22 25, 1999, Chicago, Illinois.
- 10. K. St. John, R. Afflitto, R. G. Averill, and R. A. Poggie, "Wear Resistance of Two Types of Cross-Linked Polyethylene Materials", American Society for Biomaterials Annual Meeting, Providence, RI, April 28-May 2, 1999.
- 11. K.R. St. John, R.A. Poggie, L.D. Zardiackas, and J.L. Hughes, "Materials for the Manufacture of Total Hip Bearing Surfaces: A Comparison of the Wear Resistance of Two Polyethylene and Two Metallic Bearing Materials", presented as a Poster Exhibit (PE #232) at the 66th Annual AAOS, February 4-8, 1999, Anaheim, CA.
- 12. Robert Poggie, Richard Afflitto, Robert Averill, Sam Nasser, "Measurement of the Primary Consolidation and Associated Oxidation Resistance of Several Types of Polyethylene", the 10th Annual Conference on Techniques and Science for Successful Joint Arthroplasty, October 8-9, 1998, Burlington, VT.

- 13. R.A. Poggie, R. Afflitto, R.G. Averill, and S. Nasser, "Polyethylene Consolidation Method and Resin Type Effect Resistance to Degradation", the 11th Annual International Society for Technology in Arthroplasty, October 1 3, 1998, Marseille, France.
- 14. R.M. Afflitto, R.A. Poggie, R.C. Cohen, and R.G. Averill, "Comparison of the Resistance to Oxidation of Three Types of Polyethylene", 1998 Society for Biomaterials Meeting, San Diego, CA, pp 157.
- 15. K. St. John, M. Takeuchi, and R. Poggie, "Effects of Radiation Dose and Packaging Condition on the Oxidation of UHMWPE", 23rd Annual Society for Biomaterials Meeting, April 30-May 4, 1997, New Orleans, LA, pp. 46.
- 16. R.A. Poggie, M. Takeuchi, S. Nasser, and R. Averill, "Effects of Resin Type, Consolidation, and Process Parameters on UHMWPE", presented at ASTM Symposium, published in STP 1307, Editors R. Gsell, H. Stein, J. Ploskonka, 1997.

Clinical Results

- 17. TJ O'Keefe, S Winter, DG Lewallen, DD Robertson, RA Poggie, "Clinical and Radiographic Evaluation of a Monoblock Tibial Component with Minimum Five-Year Follow-Up", submitted to the Journal of Arthroplasty, November 2008; review pending.
- 18. G Macheras, K Kateros, A Kostakos, S Koutsostathis, D Danomaras, PJ Papagelopoulos, "Eight- to Ten-Year Clinical and Radiographic Outcome of a Porous Tantalum Monoblock Acetabular Component", the JOA, 2008, In-press.
- 19. AT Kostakos, GA Macheras, CE Frangakis, KS Stafilas, D Baltas, TA Xenakis, "Migration of the Trabecular Metal Monoblock Acetabular Cup System", the JOA, 2009, In-press.
- 20. AT Helm, C Kerin, SRA Ghalayini, GJ McLauchlan, "Preliminary Results of an Uncemented Trabecular Metal Tibial Component in Total Knee Arthroplasty", the JOA, 2008, In-press.
- 21. MJ Dunbar, DAJ Wilson, AW Hennigar, JD Amirault, GP Reardon, M Gross, "RCT of a Porous Metal Tibial Monoblock TKA Component Using RSA 2 Year Results", submitted to the JAAOS, 2008, publication pending.
- 22. A Henricson, L Linder, G Nilsson, "A Trabecular Metal Tibial Component in Total Knee Replacement in Patients Younger Than 60 Years", JBJS [Br], Vol 90-B, No 12, December 2008, pp 1585-1593.
- 23. TJ O'Keefe, S Winter, DD Robertson, RA Poggie, "Five Year Outcome of a Cemented Onepiece Porous Tantalum Tibial Component in Total Knee Replacement", the 75th annual meeting of the AAOS, San Francisco, CA, March 5-9, 2008.
- 24. RM Meneghini, K Ford, AD Hanssen, DG Lewallen, "Bone-Remodeling Around Cementless Acetabular Components: Intermediate-Term Follow-up of a Randomized, Prospective Study", The JOA, Vol. 23, No. 2, February 2008, pp 321-322.

- 25. B Komarasamy, R Vadivelu, A Bruce, C Kershaw, J Davison, "Clinical and Radiological Outcome Following Total Hip Arthroplasty with an Uncemented Trabecular Metal Monoblock Acetabular Cup", Acta Orthop. Belg., 2006, 72, pp 320-325.
- 26. GA Macheras, PJ Papagelopoulos, K Kateros, AT Kostakos, D Baltas, TS Karachalios, "Radiological evaluation of the metal-bone interface of a porous tantalum monoblock acetabular component", the JBJS (Br), Vol. 88-B, No. 3, March 2006, pp 304-309.
- 27. AS Unger, RJ Lewis, T Gruen, "Evaluation of a Porous Tantalum Uncemented Acetabular Cup in Revision Total Hip Arthroplasty", The JOA, Vol. 20, No. 8, December 2005, pp 1002 1009.
- 28. T Gruen, RA Poggie, A Hanssen, D Lewallen, R Lewis, T O'Keefe, SD Stulberg, C Sutherland, , "Radiographic Evaluation of a Monoblock Acetabular Component A Multi-Center Study With 2 To 5 Year Results", The Journal of Arthroplasty, Vol. 20, No. 3, April, 2005, pp 369-378.
- 29. RA Poggie Faculty Member, IMECHE's Knee Arthroplasty: Engineering Functionality, April 7-9, 2005, Royal College of Surgeons, London, UK. Presentations "Preliminary Clinical and Radiographic Results of Porous Tantalum in Primary TKA" and "A Structural Porous Metal Alternative to Allograft and Autograft Bone in Revision and Salvage TKA"; conference proceedings: pp 57-60 and 69-72.
- 30. J.D. Bobyn, R.A. Poggie, J.J. Krygier, D.G. Lewallen, A.D. Hanssen, MD, R.J. Lewis, A.S. Unger, T.J. O'Keefe, M.J. Christie, S. Nasser, J.E. Wood, D. Stulberg, M. Tanzer, "Clinical Validation of a Structural Porous Tantalum Biomaterial for Adult Reconstruction", the Journal of Bone & Joint Surgery, Volume 86A, Supplement 2, December 2004, pp 123-129.
- 31. JD Bobyn, M Tanzer, JJ Krygier, DG Lewallen, A Hanssen, R Lewis, A Unger, TJ O'Keefe, MJ Christie, S Nasser, J Wood, SD Stulberg, RA Poggie, "Clinical Validation of a Structural Porous Biomaterial for Adult Reconstruction", presented as a Scientific Exhibit (SE 013) at the 71st Annual Meeting of the AAOS, March 10-14, 2004, San Francisco, CA. *Exhibit was winner of AAOS Award for Excellence for Scientific Exhibits in 2004*.
- 32. T Gruen, M Christie, A Hanssen, D Lewallen, R Lewis, T O'Keefe, SD Stulberg, C Sutherland, A Unger, RA Poggie, "Radiographic Evaluation of a Non Modular Acetabular Cup A 2 to 5 Year Multi-Center Study", poster presentation (P048) at the 2004 AAOS, March 10-14, 2004, San Francisco, CA.
- 33. A Lilikakis, "Macroscopic and Microscopic Findings After the Removal of a Hedrocel Acetabular Cup for Recurrent Dislocation", 2002 European Hip Society Meeting, Italy, June, 2002, poster exhibit.

Monoblock Technology & Miscellaneous

34. BR Levine, S Sporer, RA Poggie, CJD Valle, JJ Jacobs, "Experimental and Clinical Performance of Porous Tantalum in Orthopaedic Surgery", Biomaterials, 27 (2006), pp 4671 - 4681.

- 35. Rawlinson, J J, Wright, T M, Bartel, D L, Finite Element Analysis of a Porous Tantalum Monoblock Tibia Compared With a Metal-Backed Tibial Component", Presented at the 51st Annual ORS, Washington D.C., February, 2005.
- 36. Bragdon CR, Doherty AM, Chiang PP, Jasty M, Harris WH, Rubash HE, "The Effect of Trabecular Metal Porous Surface on Gap Healing and Bone Ingrowth Fixation in a Canine Total Hip Model", 50th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, Mar 7-10, 2004, Abstract
- 37. CS Florio, RA Poggie, C Sidebotham, DG Lewallen, A Hanssen, "Stability Characteristics of a Cementless Monoblock Porous Tantalum Tibial Implant Without Ancillary Fixation", the 2004 Annual Meeting of the ORS, March 7-10, 2004, San Francisco, CA.
- 38. JD Bobyn, KK Toh, SA Hacking, M Tanzer, JJ Krygier ,"Tissue Response to Porous Tantalum Acetabular Cups A Canine Model", The Journal of Arthroplasty, 1999, 14(3), pp 347-354.
- 39. A.S. Litsky, "Elimination of Cup-Liner Micromotion in Acetabular Components", 25th Annual Transactions of the Society for Biomaterials Meeting, Providence, RI, 1999, pp 600.
- 40. A.S. Litsky, AK Seth, RC Wasielewski "Micromotion Between the Cup and the Liner in Modular Acetabular Prostheses", 25th Annual Transactions of the Society for Biomaterials Meeting, Providence, RI, 1999, pp 597.
- 41. D.R. Pedersen, T.D. Brown, R.A. Poggie, "Finite Element Analysis of Peri-Acetabular Stress of Cemented, Metal-Backed, and Porous Tantalum Backed Acetabular Components", the 45th Annual ORS, Feb. 1-4, 1999, Anaheim, CA, pp. 747.
- 42. R.A. Poggie, R.C. Cohen, R.G. Averill, and R.M. Afflitto, "Characterization of a Direct Compression Molded Polyethylene Porous Tantalum Interface", 1998 Society for Biomaterials Meeting, San Diego, CA, pp 248.
- 43. R.A. Poggie, R.C. Cohen, R.G. Averill, "Characterization of a Porous Metal, Direct Compression Molded UHMWPE Junction", 44th ORS, New Orleans, LA, 1998, pp 777.