



Total Hip Arthroplasty : Wear Behaviour of Different Articulations

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- Abstract: During the 2011 EFORT Congress in Copenhagen, many interesting topics relating to tribology in total hip arthroplasty were discussed during a special day devoted entirely to the subject. EFORT decided that, given the wide interest in these discussions, publication of the presentations would be warmly welcomed by all fellow professionals who were unable to attend. This book is the result. It provides detailed information on currently used articulating materials and their wear performance. Clinical outcomes are discussed, and important new frontiers are carefully considered. The book will be of interest both to novices who want to learn more about the field and to experienced orthopaedic surgeons wishing to keep abreast of the latest developments.

Contents:	Part I. Introduction – Tribology of hip prostheses, wear performance and reliability, effect of materials and head size – How to treat failures related to articulation – Part II. Polyethylene articulations – Oxidation prevention with vitamin E in a HXLPE isoelastic monoblock pressfit cup: Preliminary results – In-Vitro Wear Testing of Conventional vs. Sequentially Cross-Linked Polyethylene Liners in Combination with Different Ceramic Femoral Heads – Characterization of Vitamin E-blended UHMWPE for higher in vivo performance in orthopaedic arthroplasty – Long-term reduction of wear and osteolysis with crosslinked PE? 13-years follow-up of a prospectively randomized comparison with conventional PE – Part III. Metal articulations – Metal-on-metal bearings in hip surgery: The London Implant Retrieval Centre Experience – Total Hip Arthroplasty with a large diameter metal-on-metal cup (Durom) and a standard stem: Short term results – Polyethylene wear in metal-backed cups: A retrospective analysis of 200 uncemented metal-backed cups – Immunological adverse reaction associated with low carbide content metal-on-metal bearings in a contemporary cementless total hip arthroplasty – Part IV. Ceramic articulations – Fracture and squeaking in ceramic-on-ceramic bearings: Is it really a concern? – Long term stability of ceramic composite in total hip arthroplasty – Ceramic-on-ceramic bearings in hip arthroplasty: a clinical review. Part V. Miscellaneous – Study of a titanium dual mobility socket with a mean follow-up of 18 years – ECIMATM for low wear, good mechanical properties and oxidation resistance of hip bearings – Index.
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