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In book: Total Hip Arthroplasty: Wear Behaviour of Different Articulations (pp.59-72) Edition: 2012 (5. April 2012) Chapter: Long-term reduction of wear and osteolysis with crosslinked PE?

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Total Hip Arthroplasty: Wear Behaviour of Different Articulations John Fisher CBE , FREng , FIMECHE , FIPEM , CEng , CSci (auth.) , Karl Knahr (eds.) 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.

Total Hip Arthroplasty: Wear Behaviour of Different ...

Total Hip Arthroplasty: Wear Behaviour of Different Articulations eBook: Karl Knahr: Amazon.co.uk: Kindle Store

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After total hip arthroplasty (THA), polyethylene acetabular liner creep occurs quickly and serves to increases head–liner contact area and decrease contact pressures. What effect these early changes in contact mechanics will have on the wear behavior of the articulation remains unclear, and hence, selection or modification of polyethylene materials for optimal creep and wear performance is ...

Influence of polyethylene creep behavior on wear in total ...

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Total Hip Arthroplasty | SpringerLink

Excessive activity or being overweight may speed up this normal wear and cause the hip replacement to loosen and become painful. Therefore, most surgeons advise against high-impact activities such as running, jogging, jumping, or other high-impact sports.

Total Hip Replacement - OrthoInfo - AAOS

However, increasing the head size has been shown to accelerate polyethylene liner wear. Few studies have investigated the effect of other important structural parameters (such as polyethylene liner thickness, metal cup size, head-liner conformity, loading conditions and etc.) on the biomechanical functions of the THAs.

The Effect of Structural Parameters of Total Hip ...

Hip replacement surgery is usually necessary when the hip joint is worn or damaged so that your mobility is reduced and you are in pain even while resting. The most common reason for hip replacement surgery is osteoarthritis. Other conditions that can cause hip joint damage include:

Hip replacement - NHS - NHS

Tribology of total hip arthroplasty prostheses: what an orthopaedic surgeon should know. EFORT Open Rev 2016;1:52-57. DOI: 10.1302/2058-5241.1.000004. ... Clinical wear behaviour of ultra-high ...

(PDF) Tribology of total hip arthroplasty prostheses

Abstract A total of 38 cemented metal-on-metal CoCrMo McKee-Farrar total hip arthroplasties (THAs) were clinically and radiographically evaluated over a long-term follow-up. No osteolysis and no granuloma were found more than 20 years after the operation.

Metal-on-metal CoCrMo McKee-Farrar total hip arthroplasty ...

Saikko, V., Pfaff, H. G. Wear of alumina-on-alumina total replacement hip joints studied with a hip joint simulator. In Proceedings of Second Symposium on Cermaic Wear Couple, Stuttgart, 1997, pp. 117 – 122 (CeramTec, Germany). Google Scholar

Ultra-low wear rates for rigid-on-rigid bearings in total ...

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Developments in total hip arthroplasty have been directed at reduction of the rate of failure while accommodating the high-activity profile and increased longevity of the modern patient. Components must, therefore, provide durable fixation in the face of high stresses, whereas bearing surfaces need to be resilient and show low wear.

The operation of the century: total hip replacement - The ...

The overall consensus is that MoM hip resurfacing should not be banned and should be viewed separately from MoM total hip arthroplasty (THA) with a large diameter head because of the different design and wear behaviour related to the taper/trunnion connection.

Current expert views on metal-on-metal hip resurfacing ...

The use of a temporary three-dimensional polymethylmethacrylate (PMMA) cement spacer may be an alternative to solve infections in hip implants, improving the lives of patients awaiting reimplantation.