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Polyethylene in total hip arthroplasty: half a century in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2896572>

May 27, 2010 · It is well known that **polyethylene** (PE) **wear** is the major limiting factor in longevity of primary **total hip arthroplasty** (THA) []. Many studies report that cup loosening due to **wear** is the most frequent reason for revision in the long term for both cemented and uncemented THA, especially in young and active patients [2–7]. To date, this phenomenon is known to produce ...

Cited by: 8**Author:** Eduardo García-Rey, Eduardo García-Ci...**Publish Year:** 2010

Highly Crosslinked Polyethylene In Total Hip Arthroplasty ...

https://www.researchgate.net/publication/236680107_Highly_Crosslinked_Polyethyl_ene_In...

The hypothesis of the present study was that the Durasul **highly** cross-linked **polyethylene acetabular** liner would **have** less **wear** at five years **than** would a **conventional polyethylene** ...

Second-generation Highly Cross-linked X3™ Polyethylene ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3049610>

Feb 12, 2010 · Introduction. Component loosening is the most common reason for early to midterm revision of **hip** prostheses [2, 27]. A major contributor to the loosening observed at revision **arthroplasty** is osteolysis related to **wear** of UHMWPE [10, 17, 18, 23, 26, 40, 45, 46]. To overcome the problems of **wear** associated with **conventional** UHMWPE, **highly** cross-linked **polyethylene** ...

Cited by: 52**Author:** David G. Campbell, John R. Field, Stuar...**Publish Year:** 2010

Does Highly Cross-Linked Polyethylene Wear Less Than ...

https://www.researchgate.net/publication/5494832_Does_Highly_Cross-Linked_Polyethylene...

The purpose of this study was to investigate the relatively long-term **outcomes** in 50 patients (54

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Manuscript NO: 56927

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Randomized Controlled Trial

2 Highly cross-linked versus conventional polyethylene inserts in total hip arthroplasty, a five-year rontgen stereophotogrammetric analysis randomised controlled trial

van Loon J *et al.* HXLPE in THA: A RSA RCT

Justin van Loon, Daniël Hoornenborg, Inger Sierevelt, 14 Kim T.M. Opdam, Gino M.M.J. Kerkhoffs, Daniël Haverkamp

Abstract

BACKGROUND

Polyethylene (PE) particles produced by wear of the acetabular insert are supposed to



Highly cross-linked versus conventional polyethylene inserts in tota



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Highly Crosslinked Polyethylene Does Not Reduce Aseptic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3462851>

Jun 06, 2012 · The seven-year wear of **highly cross-linked polyethylene in total hip arthroplasty**: a double-blind, randomized **controlled trial** using radiostereometric **analysis**. J Bone Joint Surg Am. 2011; 93 :716–722. doi: 10.2106/JBJS.J.00287.

Cited by: 105

Author: Per-Erik Johanson, Georgios Digas, Peter H...

Publish Year: 2012

(PDF) The John Charnley Award: Highly Crosslinked ...

<https://www.researchgate.net/publication/264833777...>

Aug 15, 2014 · **randomised, controlled trial** using radiostereometric **analysis**. J. ... **Cross-linked versus conventional polyethylene**. ... year wear of **highly cross-linked polyethylene in total hip**.

Cross-linked versus conventional polyethylene for total ...

<https://www.researchgate.net/publication/51069125...>

Cross-linked versus conventional polyethylene for **total hip** replacement: A meta-analysis of **randomised controlled** trials May 2011 The Bone & Joint Journal 93(5):593-600

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Does **Highly Cross-Linked Polyethylene** Wear Less Than **Conventional Polyethylene** in **Total Hip Arthroplasty**?. A Double-Blind, Randomized, and **Controlled Trial** Using Roentgen **Stereophotogrammetric** ...

Wear Kinetics of Highly Cross-Linked and Conventional ...

<https://www.sciencedirect.com/science/article/pii/S0883540318302857>

Aug 01, 2018 · **Total hip arthroplasty** (THA) has shown excellent clinical results over the past 40 years .However, the durability and longevity of implants are limited, and aseptic implant loosening remains a major concern in the context of an aging society with an increasing activity level , , .Aiming to reduce **polyethylene** (PE) wear, **highly cross-linked polyethylene** (HCLPE) has shown promising in vitro ...

Author: Constantin Mayer, Moritz Rommelmann...

Publish Year: 2018

Radiostereometric Analysis Study of Tantalum Compared with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4391964>

Apr 15, 2015 · The seven-year wear of **highly cross-linked polyethylene in total hip arthroplasty**: a double-blind, randomized **controlled trial** using radiostereometric **analysis**. J Bone Joint Surg Am. 2011April20; 93 (8):716-22.

(PDF) Vitamin-E diffused highly cross-linked polyethylene ...

<https://www.researchgate.net/publication/271596929...>

Jan 29, 2015 · Vitamin E-blended **highly cross-linked polyethylene** liners in **total hip arthroplasty**: a randomized, multicenter **trial** using virtual CAD-based wear **analysis** at 5-year follow-up Article Feb 2020

The Seven-Year Wear of Highly Cross-Linked Polyethylene in ...

<https://www.researchgate.net/publication/51065755...>

The use of **highly cross-linked polyethylene** is now commonplace in **total hip arthroplasty**. Hip simulator studies and short-term in vivo measurements have suggested that the wear rate of **highly** ...

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Cross-linked versus conventional polyethylene for total ...

<https://www.researchgate.net/publication/51069125...>

Cross-linked versus conventional polyethylene for total hip replacement: A meta-analysis of **randomised controlled trials** May 2011 The Bone & Joint Journal 93(5):593-600

Continued Improved Wear with an Annealed Highly Cross ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3032874>

Glyn-Jones S, Isaac S, Hauptfleisch J, McLardy-Smith P, Murray DW, Gill HS. Does **highly cross-linked polyethylene** wear less than **conventional polyethylene** in total hip arthroplasty? A double-blind, randomized, and **controlled trial** using roentgen **stereophotogrammetric analysis**. J Arthroplasty.

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