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**Name of Journal:** *World Journal of Orthopedics*

**Manuscript NO:** 58753

**Manuscript Type:** ORIGINAL ARTICLE

*Observational Study*

**Ceramic-on-Ceramic vs Ceramic-on-Polyethylene, a comparative study with 10-years follow-up.**

Ceramic-on-Ceramic vs Ceramic-on-Polyethylene, a comparative study with 10-years follow-up.

**Abstract**

**BACKGROUND**

In press-fit total hip arthroplasty (THA) ceramic-on-ceramic (CoC) bearings are a potential to overcome wear, which is seen in ceramic-on-polyethylene (CoPE) bearings and can give wear induced osteolysis and result in loosening of the implant. However, CoC bearings show disadvantages as well, such as squeaking sound and being more



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## Ceramic on Ceramic or Ceramic-on-polyethylene for Total ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4831551>

May 05, 2015 · No differences found in bearing related hip survivorship at 10-12 years follow-up between **patients with ceramic** on highly cross-linked **polyethylene bearings** compared to patients with **ceramic on ceramic bearings**.

Cited by: 3

Author: Yu-Lei Dong, Tao Li, Ke Xiao, Yan-Yan Bian, ...

Publish Year: 2015

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## Ceramic-on-Ceramic Versus Ceramic-on-Polyethylene Bearing ...

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## Comparison of ceramic-on-ceramic to metal-on-polyethylene ...

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Feb 03, 2015 · In recent years, the choice of **ceramic-on-ceramic** (COC) and metal-on-polyethylene (MOP)





Ceramic-on-Ceramic versus Ceramic-on-Polyethylene, a comparativ



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**Cited by:** 6

**Author:** Dongcai Hu, Xiao Yang, Yang Tan, Moham...

**Publish Year:** 2015

## Ceramic-on-Ceramic versus Ceramic-on-Polyethylene Bearings ...

[https://link.springer.com/chapter/10.1007/3-7985-1540-9\\_16](https://link.springer.com/chapter/10.1007/3-7985-1540-9_16) ▼

Bal B.S., Aleto T.J., Garino J.P., Toni A., Hendricks K.J. (2005) **Ceramic-on-Ceramic versus Ceramic-on-Polyethylene** Bearings in Total Hip Arthroplasty: Results of a Multicenter Prospective Randomized **Study** and Update of Modern Ceramic Total Hip Trials in the USA. In: Bioceramics and Alternative Bearings in Joint Arthroplasty.

**Cited by:** 14

**Author:** B. Sonny Bal, T.J. Aleto, J.P. Garino, A. Toni,...

**Publish Year:** 2005

## Ceramic-on-ceramic versus ceramic-on-polyethylene bearings ...

<https://journals.sagepub.com/doi/abs/10.1177/112070000501500301>

Jul 01, 2005 · Total hip replacements with **ceramic-on-ceramic** articulations have shown less wear both in vitro and in vivo. A randomized prospective clinical trial was conducted to compare the outcomes of **ceramic-on-ceramic** articulations to **ceramic-on-polyethylene** articulations.

**Cited by:** 14

**Author:** B. Sonny Bal, T.J. Aleto, J.P. Garino, A. Toni,...

**Publish Year:** 2005

## Comparison of ceramic-on-ceramic bearing vs ceramic-on ...



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Publish Year: 2015

### [Comparison of ceramic-on-ceramic bearing vs ceramic-on ...](#)

<https://josr-online.biomedcentral.com/articles/10.1186/s13018-019-1410-8> ▾

Nov 27, 2019 · **Beaupre et al.** reported **CoC** and **ceramic-on-crossfire-polyethylene** had a similar health-related quality of life after postoperative 10 years follow-up. There were no failures of loss of fixation related to the bearing surface in either group.

Cited by: 1

Author: Bin Feng, Yi Ren, Shiliang Cao, Jin Lin, Jin J...

Publish Year: 2019

### [A Randomized Trial Comparing Ceramic-on-Ceramic Bearing vs ...](#)

<https://www.sciencedirect.com/science/article/pii/S0883540315010670>

Jun 01, 2016 · This randomized clinical trial determined how **ceramic-on-ceramic (CERAMIC)** bearing THA affected joint-specific pain, function, and stiffness and prosthesis fixation/longevity over 10 postoperative years compared with **ceramic-on-highly-crosslinked-polyethylene (POLYETHYLENE)** bearing THA. This is a follow-up to previously reported 5-year outcomes.

Cited by: 10

Author: Lauren A. Beaupre, Amro Al-Houkail, Donal...

Publish Year: 2016

### [Comparison of ceramic-on-ceramic to metal-on-polyethylene ...](#)

<https://josr-online.biomedcentral.com/articles/10.1186/s13018-015-0163-2> ▾

Feb 03, 2015 · In recent years, the choice of **ceramic-on-ceramic (COC)** and metal-on-polyethylene (MOP) in primary total hip arthroplasty (THA) remains controversial. The purpose of this **study** was to compare the reliability and durability of COC with that of MOP bearing surfaces in THA. Based on prospective randomized controlled trials (RCTs) searched from Pubmed, Embase, Web of Science, and ...

Cited by: 26

Author: Dengwei Hu, Kai Tian, Xiao Yang, Yang Tan