Hip osteoarthritis in young age,surgical treatment

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Bearing surface

- Hard on Hard (metal on metal,ceramic on ceramic)
- Hard on soft (ceramic on poly, metal on poly)
- highly cross linked polyethylene
- thicker liner is preferred

Bone preserving

- metaphyseal fixation
- neck fixation (short stem)
- spare diaphysis

Can J Surg. 2003 Aug; 46(4): 257–262.

PMCID: PMC3211645

Language: English | French

Total hip arthroplasty in patients younger than 21 years: a minimum 10-year follow-up

Benoît J. Bessette, François Fassier, Michael Tanzer, and Caleb E. Brooks

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- **PE wear is a problem**

Am J Orthop (Belle Mead NJ). 2009 Mar;38(3):125-9.

Total hip arthroplasty in young patients with osteoarthritis.

Daras M[1], Macaulay W.

- A subset of the authors' patients who were 40 years and younger (256 hips, 223 patients) had **slightly inferior results,** with 85% 10-year survivorship

Clin Orthop Relat Res. 2004 Jan;(418):119-25.

Total hip arthroplasty in patients 50 years and younger.

McAuley JP[1], Szuszczewicz ES, Young A, Engh CA Sr.

- **Although young age remains a relative contraindication to THA, the weight of this factor has diminished**.

Arch Bone Jt Surg. 2014 Sep; 2(3): 157–162.
Published online 2014 Sep 15.
PMCID: PMC4225019

Long Term Outcomes of Total Hip Arthroplasty in Young Patients under 30

Emilios E. Pakos, MD, Nikolaos K. Paschos, MD, and Theodoros A. Xenakis, MD

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- younger than 30 years of age, **comparable with** those in older p

Age and Early Revision After Primary Total Hip Arthroplasty for Osteoarthritis

ZACHARY MEYER, MD; GENEVA BACA, BA; RICHARD RAMES, MD; ROBERT BARRACK, MD; JOHN CLOHISY, MD; DENIS NAM, MD, MSC

- younger age is **not associated** with an increased rate of early failure or revision. (2017)

Two main categories:

- 1: high demand (nonunion of neck, acetabulum fx, some AVNs)= cement less, hard on hard

Two main categories:

- **Low demand: JRA, RA,Drug abuse= cemented, hard on poly**

Summary

- heterogenous group(AVN, RA, JRA, Nonunion, acetabulum fx)
- bone preserving strategy
- based on demand,choose bearing surface

Thank you