

List of Authors

Author Order	First Name	Middle Name	Last Name	Email	Credentials	Author Type	Presenter	Application Author	City	State	Country
1	Jacob	M	Wilson	jacobmwilson12@gmail.com	MD	Primary Author	Yes	No	Rochester	Minnesota	
2	Mikaela	H	Sullivan	sullivan.mikaela2@mayo.edu	MD	Co-Author	No	No	Rochester	Minnesota	
3	Mark	W.	Pagnano	pagnano.mark@mayo.edu	MD	Co-Author	No	No	Rochester	Minnesota	
4	Robert	T.	Trousdale	trousdale.robert@mayo.edu	MD	Senior Author	No	No	Rochester	Minnesota	

Abstract Number : **A60533**

1 Abstract Title

Resurfacing the Thin Native Patella: Is It Safe?

2 Abstract Description

Introduction: Whether to resurface the patella during total knee arthroplasty (TKA) remains debated. One often cited reason for not resurfacing is inadequate patellar thickness. However, when left un-resurfaced, this cohort has known relatively high revision rates. The aim of this study is to describe the implant survivorships, reoperations, complications and clinical outcomes in patients who underwent patellar resurfacing of a thin native patella.

Methods: Our institutional total joint registry was used to identify patients undergoing primary TKA with patellar resurfacing from 2000 to 2010. Of the 11,333 identified patients, 200 (1.8%) had a pre-resection patellar thickness of ≤ 19 mm. Pre-resection and post-resection patella thickness was measured intraoperatively using calipers. Median pre-resection and post-resection thickness was 19 (range 12-19) and 12.5 (range 10-17), respectively. Mean age was 69 years, mean BMI 31 kg/m², and 93% were female. Indications for surgery included: osteoarthritis (n=153), rheumatoid arthritis (n=33), post-traumatic arthritis (n=14). Median follow-up was 10 years (range 2-20).

Results: At 10 years, survivorships free of any patella revision, patella-related reoperation, periprosthetic patella fracture, and patella-related complication were 98%, 98%, 99%, and 97%, respectively. There were 2 patella revisions: 1 for aseptic loosening and 1 for PJI. There were 2 additional patella-related reoperations, both arthroscopic synovectomies for patellar clunk. Two patients underwent MUA. There were 3 periprosthetic patella fractures managed nonoperatively, all with well-fixed components and intact extensor mechanisms. Radiographically, the patella appeared well fixed in all non-revised knees. Knee society scores improved from mean 36 preoperatively to mean 81 at 10-years postoperatively.

Discussion: Resurfacing the thin native patella was associated with high survivorship free of patellar revision at 10-year follow-up. None-the-less there was one case of patellar loosening and 3 periprosthetic patella fractures. These risks must be weighed against the known higher incidence of revision when the thin native patella is left un-resurfaced.

3 Does this study include the use of large administrative databases (e.g., Medicare database, Nationwide Inpatient Sample, NSQIP, Humana database, Statewide or country database or registry, or any other BIG DATA source)?

No

4 If the presenter of this paper is a trainee, will the senior author be able to attend the meeting and answer audience questions?

Yes

Has this work been :

5

Not Applicable

6

FDA Status: Policy provides that "off-label" uses of a device or pharmaceutical may be described in the CME activities as long as the "off-label" status of the device or pharmaceutical is also specifically disclosed (i.e. that the FDA has not approved labeling the device for the described purpose). Any device or pharmaceutical is being used "off-label" if the described use is not set forth on the product's approved label.

Documentation of FDA status for uses described in my work for this educational program.

Not Applicable

7

Clinical category that best describes the content of your proposal

Primary Knee

8

Does this study simultaneously describe both hip and knee arthroplasty patients? (e.g., includes both THA and TKA patients)?

No

9

How would you rate this abstract's level of evidence?

Level 3: Retrospective cohort study or Case Control Study

Description / Examples

Retrospective cohort study.

10

Have you and your co-authors disclosed all potential conflicts of interest through the AAOS disclosure process, <http://www.aaos.org/disclosure>?

Yes

11

Are ANY of the conflicts of interest of ANY of the authors related to this study?

No

As an accredited provider of the AMA PRA Category 1 CME Credit™, AAHKS is required to obtain disclosure of any potential conflicts of interest from all faculty/presenters of the Annual Meeting.

This disclosure information is available to the Program Committee, peer reviewers grading the abstracts and independent reviewers that help resolve potential conflicts of interest. To fulfill this requirement, faculty disclosures must be submitted through the AAOS disclosure site, <http://www.aaos.org/disclosure>.

The information needs to be updated within a year of the first day of the Annual Meeting.

This policy applies to all proposed faculty, including all authors listed on the abstract, members and non-members.

If disclosure information is missing for any of the abstract authors, the application will be discarded.

DISCLOSURE DEADLINE - August 1. For all 3 submission types.