

PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 38553

Title: Outcomes of mobile bearing unicompartmental knee arthroplasty in medial osteoarthritis knee with and without preoperative genu recurvatum

Reviewer's code: 03592619

Reviewer's country: Turkey

Science editor: Li-Jun Cui

Date sent for review: 2018-03-02

Date reviewed: 2018-03-05

Review time: 3 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Well thought out study. How has the results of this study affected your practice?
What specific recommendations do you have for the patient's management? You have
stated that "Statistics have shown that 30 knees in group I and 140 knees in group II,



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would have 80% power at the significant 5%.” I do not know how did you calculate it or which data you used. However I think, stronger results can be obtained if similar numbers are added in to the groups. In the flowchart, there are some missing sentences. When we look the age range in two groups, age range is 57-76 years in the first group and age range 44-88 years in the second group, although the average is similar, different results can be obtained at different ages. You have stated that “The patients were followed up at 6 weeks, 3 months, 6 months, 1 year, and then annually. At each follow-up, the patients were recorded Knee Society Score© (KSS)” However which results did you report in tables? This is not clear for readers.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 38553

Title: Outcomes of mobile bearing unicompartmental knee arthroplasty in medial osteoarthritis knee with and without preoperative genu recurvatum

Reviewer's code: 03518978

Reviewer's country: United States

Science editor: Li-Jun Cui

Date sent for review: 2018-03-02

Date reviewed: 2018-03-08

Review time: 5 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
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			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This study compared outcomes of two groups of patients treated with Unicompartmental Knee Arthroplasty (UKA). Group I included 32 patients with medial osteoarthritis (OA) knee with preoperative genu recurvatum (GR) and Group II included

144 patients without preoperative GR. It was found that there was no correlation between clinical outcomes, occurrence of postoperative GR, and hyperextension angle with OA knee, with and without preoperative GR. The authors concluded that patients with medial OA of the knees and concomitant GR are not contraindication for the mobile bearing UKA. Generally, this is an interesting study. It has addressed a very significant clinical issue. However, there are some concerns that need to be clarified. 1. It seems that UKA has a function that can correct the GR. The larger femoral component will change the position of femoral component at superior part of the distal femoral condyle and tighten extension gap. It could prevent postoperative GR. Remember that this was only in medial compartment. Please explain how to tighten lateral compartment. 2. It would be more interesting if authors can provide a couple more cases of pre and post-operative x-rays.

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BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 38553

Title: Outcomes of mobile bearing unicompartmental knee arthroplasty in medial osteoarthritis knee with and without preoperative genu recurvatum

Reviewer's code: 02699853

Reviewer's country: Spain

Science editor: Li-Jun Cui

Date sent for review: 2018-03-02

Date reviewed: 2018-03-08

Review time: 6 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

I congratulate the author for your interesting study. I have some commentaries to do: 1- I think the author must include in the Title the precision that the study deals with patients with medial OA. 2- Hiperextension of more than 5° coexisting with a flexion contracture?



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3- How do you measure the recurvatum angle? 4- What do you mean with the paragraph lines 114-117? Explain it. 5- Oversizing the femoral component can cause femoro-patellar problems and must be avoided.

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