



PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 62650

Title: Radiological evaluation of patellofemoral instability and possible causes of assessment errors

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05126998

Position: Peer Reviewer

Academic degree: MBBS

Professional title: Academic Fellow

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: Turkey

Manuscript submission date: 2021-01-14

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2021-09-03 21:42

Reviewer performed review: 2021-09-03 22:40

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

In this literature review, Ormeci et al discuss the techniques used to evaluate patellofemoral instability. Overall, the authors have presented the content in a logical manner and have included the appropriate figures to illustrate the review well. There are some points within the text that requires clarification, and there are some minor concerns relating to the consistency and accuracy of references and content that should be addressed. The text would be significantly improved by a section discussing causes of PI, and how radiological assessment are catered for different causes. Abstract: Sentence on line two beginning with 'In radiological evaluation,...' Needs to be modified. I believe the authors meant to write 'In order to identify the presence of patellofemoral instability..., ' Re the sentence commencing on line four, where authors state In this study, we mainly examine.... and use other assessment methods that allow the patellofemoral joint to be evaluated qualitatively and quantitatively.' This needs to modified as it is inappropriate for a literature review given that the authors did not 'use' the assessment methods. Introduction: Under subsection 'Bones' in the sentence commencing 'According to the morphology of these facets and the localisation of the median ridge, wiberg has defined four types.'. It is unclear what the authors are referring to. Four types of what? Furthermore, Wiberg, cited as reference number 3 described three types of patella in luxation with the femoral condyles. Type IV Wiberg was described by Baumgartl (reference below) twenty years after Wiberg's original article. Baumgartl F. Anatomische und klinische Bedeutung des Femoropatellargelenkes. Zentralbl Chir. 1966;91:505. Citation number 4 is inappropriate, as there is simply no comparative description of the thickness of patella



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cartilage relatively to other parts of the body, this is a study that evaluated patella morphology instead. I advise that all references and citations are checked for accuracy. Under subsection 'soft tissues', the first and second sentences do not follow. It should state somewhere that the four muscles form the quads and that the quad tendon is part of the extensor mechanism. I advise checking sentences throughout to ensure that the content flows logically. Likewise, in same paragraph, it is stated that extensor mechanism disorders can be observed in nervous system pathologies. I believe the authors mean to state instead that some nerve disorders can affect the innervation of the extensor mechanism. Description and definition of TT-TG distance should be moved to an earlier section. Sentence commencing 'the deepest points of the TG and TT are taken as bases.' Should be changed to deepest point of the TG and most prominent part of the TT'. There should be a in the text to discuss the common causes of instability. These, and how they affect PF stability, and how they should be assessed should then be discussed in a separately heading of the review Under assessments and measurements, the section titled: 'Trochlear Dysplasia' does not belong as it is not a form of assessment nor a form of measurement.



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Peer-review model: Single blind

Reviewer's code: 05683042

Position: Peer Reviewer

Academic degree: MD

Professional title: Lecturer, Surgeon

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Turkey

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Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2021-09-18 07:15

Reviewer performed review: 2021-09-24 21:31

Review time: 6 Days and 14 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

I would like to congratulate the authors for conducting this comprehensive review. In order to improve the quality of this review, I have some recommendations: In the anatomy section, the authors stated: According to the morphology of these facets and the localization of the median ridge, Wiberg has defined four types. What are those types? There are some problems with the citations and references; some of them are not accurate. The whole references and citations need to be checked. For example, Reference 4 evaluates patella morphology and not a comparative study. Please put the reference immediately after et al. For example, Yue et al., Nizic et al., and Gracitelli et al. found that IS has etc.[42,49,51] should be Yue et al. (N), Nizic et al. (N), and Gracitelli et al. (N) and so on. In the references list, the authors used (REFERANSLAR) instead of References! The whole manuscript needs to be rechecked for proper English language and grammar. After making those corrections and revisions, I think this manuscript will be interesting for readers.



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Peer-review model: Single blind

Reviewer's code: 05536554

Position: Peer Reviewer

Academic degree: Doctor, MD

Professional title: Academic Research, Surgeon

Reviewer's Country/Territory: Argentina

Author's Country/Territory: Turkey

Manuscript submission date: 2021-01-14

Reviewer chosen by: Ze-Mao Gong

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Reviewer performed review: 2021-09-29 18:34

Review time: 10 Days and 20 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



Peer-reviewer statements Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

General Comments: Overall, this is some interesting paper that has value. It provides further interesting data in a very evolving topic. The strengths of the review are the in-depth analysis of each of the radiological measurements and the possible causes of assessment errors. I consider that some revisions are needed. Manuscript is not friendly for reviewers since line numbers are missing. Title: appropriate Abstract: The abstract is of appropriate length and summarizes the study well. Keywords: appropriate Introduction: appropriate "Anatomy": I believe that basic descriptions of anatomy are not necessary. There is a discrepancy between this and the rest of the review, where there is a very thorough and more advanced analysis of radiographic landmarks. "Soft tissues": Last paragraph: "The lateral retinaculum acts as a secondary stabilizer against the lateral translation of the patella.": Should read medial translation. "The imaging algorithm of PI": "The bones and soft tissues that make up the patellofemoral joint can be evaluated with radiography, CT, and MRI.": This sentence is repeated several times. "Patellar height evaluation": This section is extremely long and with excessive information, which makes it difficult to keep the reader's attention. I would consider summarizing and being more compact. "Trochlear dysplasia": Q angle is related to the alignment of structures and not to trochlear dysplasia. Consider moving Q angle description to "other parameters" section. "Other parameters used in the evaluation of patients with PI": consider analyzing Coronal Alignment, Femoral anteversion and Tibial torsion in this section. Summary: appropriate References: appropriate and updated, almost 20 references from the last 5 years Figures: sufficient and appropriately illustrative of the paper contents Table: very useful



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 05126998

Position: Peer Reviewer

Academic degree: MBBS

Professional title: Academic Fellow

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: Turkey

Manuscript submission date: 2021-01-14

Reviewer chosen by: Jing-Jie Wang (Online Science Editor)

Reviewer accepted review: 2021-11-06 12:39

Reviewer performed review: 2021-11-06 12:44

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Thank you for addressing the comments thoroughly, I recommend publication without need for further changes.