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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 62508

Title: A Potential Contribution of Pedicle Screw Design to Loosening Rate in Patients with Degenerative Diseases of the Lumbar Spine - an Observational Study

Reviewer's code: 03071853
Position: Editorial Board
Academic degree: MD
Professional title: Assistant Professor, Neurosurgeon
Reviewer's Country/Territory: Italy
Author's Country/Territory: Russia

Manuscript submission date: 2021-01-10
Reviewer chosen by: Jia-Ping Yan
Reviewer accepted review: 2021-01-12 09:47
Reviewer performed review: 2021-01-18 09:15
Review time: 5 Days and 23 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

This is an interestign investigation on factors that influence pedicle screw loosening rate Osteoposorosis is a well known risk factor of instrument failure and is confirmed by this study I suggest to add body mass index (BMI) as a variable that could influence loosening Minor edits Page 1. have been insufficiently studied instead of is studied insufficiently

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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 62508

Title: A Potential Contribution of Pedicle Screw Design to Loosening Rate in Patients with Degenerative Diseases of the Lumbar Spine - an Observational Study

Reviewer's code: 02439211
Position: Peer Reviewer
Academic degree: PhD
Professional title: Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Russia

Manuscript submission date: 2021-01-10
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-01-19 08:32
Reviewer performed review: 2021-01-25 01:16
Review time: 5 Days and 16 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

The author evaluated the contribution of screw design to rate of pedicle screw loosening in patients with degenerative diseases of the lumbar spine. They found that the pedicle screw loosening rate was influenced by helical pitch, inner and outer diameter, while geometry of screws and thread type were insignificant factors. This study has certain value and significance and the results and datas analysis are accurate. However, the research may need to further expand the sample size, then the results obtained in this way may be more convincing. I personally prefer support the publication of this manuscript in the World Journal of Orthopedics.

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Orthopedics

Manuscript NO: 62508

Title: A Potential Contribution of Pedicle Screw Design to Loosening Rate in Patients with Degenerative Diseases of the Lumbar Spine - an Observational Study

Reviewer's code: 03071853
Position: Editorial Board
Academic degree: MD

Professional title: Assistant Professor, Neurosurgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: Russia

Manuscript submission date: 2021-01-10

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2021-02-22 08:17

Reviewer performed review: 2021-02-22 08:22

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

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The authors carried out an adequate review to the requests. This manuscript is now suitable for publication