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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 38332

Title: Single rod instrumentation in patients with scoliosis and co-morbidities: indications and outcomes

Reviewer's code: 00383760

Reviewer's country: China

Science editor: Li-Jun Cui

Date sent for review: 2018-02-10

Date reviewed: 2018-02-13

Review time: 2 Days

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[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced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

SPECIFIC COMMENTS TO AUTHORS

I have the following questions and comments. 1. In the conclusion of the abstract, the author stated that "this technique may reduce operative time, blood loss and associated surgical morbidity". But the author did not present data to compare this technique with

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other techniques. We are actually not sure whether this technique may "reduce" operative time, blood loss or surgical morbidity. I suggest that the author could say that "this technique is a reasonable alternative. Further studies comparing outcomes of different techniques are warranted to determine the best option in different scenarios." 2. In the Results section, page 9, paragraph on Group C, the author stated that "this was associated with high patient satisfaction and good functional outcome. The author should do statistical comparison of the questionnaire scores before and after surgery. 3. In the Discussion section, the author should present literature findings on operative time and blood loss of similar patients undergoing single rod and dual instrumentation so that readers have a better idea how the author's findings compare with others. The author should also compare his own results of single rod with his own results of dual instrumentation or other techniques, which comprised about 90% of his practice.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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[ ] Duplicate publication

[ ] Plagiarism

[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 38332

Title: Single rod instrumentation in patients with scoliosis and co-morbidities: indications and outcomes

Reviewer's code: 00501340

Reviewer's country: Greece

Science editor: Li-Jun Cui

Date sent for review: 2018-02-10

Date reviewed: 2018-02-22

Review time: 12 Days

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

SPECIFIC COMMENTS TO AUTHORS

The manuscript is introducing and supporting the single rod instrumentation technique as a different way of deformity correction for scoliotic children. The paper is interesting as there are not many previous references regarding the treatment of scoliosis using

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single rod construct. It is well presented, however some minor concerns are listed. Title: The aim of the study is well stated and clearly mentioned. Introduction: At the end of the first paragraph, where the animal models are mentioned, it is advisable to be further explained the existing data of single rod application in comparison to the double rod technique. Materials and Methods: The methodology of the study, the selection of the patients and their data are well presented and clearly explained. The organization in separate paragraphs, where the procedure is analyzed, is very helpful in conjunction with the addition of the figures. The authors do not mention pre-op flexibility. If pre-op flexibility has not been recorded this should be stated in the limitations of the study. Results: The analysis of the results in the three different patients groups is helpful since the reader can clearly understand the indications, the amount of correction and the complications between the separate group patients. One minor thought concerns the complications which include only a few years after surgery. It would be interested to present the viability of the single rod constructs and the complications for a longer time period after surgery. In the summary data of complications in table 1 is 2, although in the text the amount of complications is 4 and therefore it should be corrected appropriately. Discussion: The advantages and the indications of single rod instrumentation are well stated, as well as the limitations of the study, which lies in the heterogeneity of patients who are included in Groups A and B. The addition of the X-rays with legend explanation is very informative and also the tables help reader to have quick and totally access to the data and the results of the study.

INITIAL REVIEW OF THE MANUSCRIPT

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