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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 52577

Title: Lumbar interspinous pressure pain threshold values for healthy young men and women and the effect of prolonged fully flexed lumbar sitting posture. An observational before and after study

Reviewer's code: 03998375

Position: Editorial Board

Academic degree: MBChB, MSc

Professional title: Assistant Professor

Reviewer's country: Iraq

Author's country: Sweden

Manuscript submission date: 2019-11-08

Reviewer chosen by: AI Technique

Reviewer accepted review: 2019-11-10 05:33

Reviewer performed review: 2019-11-15 20:38

Review time: 5 Days and 15 Hours

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 Grade E: Do not publish	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

SPECIFIC COMMENTS TO AUTHORS

Title: the last part of the title (An observational before and after study) is unsuitable that should be omitted or changed such as (An observational study). More physiological factors other than cytokines should be elicited as a cause for decrease pain pressure thresholds after lumber flexion position. The study limitations should be outlined in the Discussion.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

- The same title
- Duplicate publication
- Plagiarism



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[Y] No



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Reviewer's code: 00505357

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's country: Switzerland

Author's country: Sweden

Manuscript submission date: 2019-11-08

Reviewer chosen by: AI Technique

Reviewer accepted review: 2019-11-08 09:44

Reviewer performed review: 2019-11-22 13:12

Review time: 14 Days and 3 Hours

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

SPECIFIC COMMENTS TO AUTHORS

This an interesting study with a pre-post-test design and maximum flexion seating in between. Assessment included measurement of pain thresholds before and after flexed seating. 26 participants showed lowerd pain thresholds. Some points should be addressed before publication :

- 1 There is no control group and therefore pain sensitisation by the pain threshold measurement using an algometer can not be ruled out. Author(s) should test potential pain sensitisation by algometer use and repeated algometer use after 15 min in a small sample.
- 2 Please report Spearman rank correlation between time of seating with max flexion (varies between 12 and 15 min) and pain threshold before seating, after seating, and change in pain thresholds.
- 3 Outlook: Authors should add the need for an experimental trial and variation of flexion in various degrees.
- 4 Authors should also discuss whether flexion ist he specific agent responsible for the lower pain threshold or the unchanged sitting position across 15 min per se. Please refer to: Bontrup, C., Taylor, W. R., Fliesser, M., Visscher, R., Green, T., Wippert, P.-M., & Zemp, R. (2019). Low back pain and its relationship with sitting behaviour among sedentary office workers. *Applied Ergonomics*, 81, 102894. doi:<https://doi.org/10.1016/j.apergo.2019.102894>
- 5 Power calculation is reported twice (at para «participants» and para « data analysis »)
- 6 delete one « and » at author



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contributions

INITIAL REVIEW OF THE MANUSCRIPT

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- The same title
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- No

BPG Search:

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- Plagiarism
- No