

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Orthopedics*

**Manuscript NO:** 75179

**Title:** Content of blood cell components, inflammatory cytokines and growth factors in autologous platelet-rich plasma obtained by various methods

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05478968

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Malaysia

**Author's Country/Territory:** Poland

**Manuscript submission date:** 2022-01-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-02-04 01:35

**Reviewer performed review:** 2022-02-14 01:34

**Review time:** 9 Days and 23 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Reviewer comments The authors present an investigation of the content of blood cell components, inflammatory cytokines and growth factors in autologous platelet-rich. The authors provide a detailed, step-by-step description of the different methods of gravity processing and manufacture of gravity separation used in orthobiology. The results are presented in a very clear fashion, and they demonstrated the differences in the content of biologically active components in PRP obtained with the use of different methods.

General comment In general, I have little else to criticize about this manuscript with promising results. The title of the manuscript is acceptable and reflects the main idea of the manuscript.

Specific comments: Abstract: The abstract is adequate and summarizes the work described in the manuscript. Introduction: The introduction is appropriate and well explained about the study. Methodology the methodology was a fairly clear explanation. Results and Discussion The result presentation and the discussion are well organized. The limitation of the study is not mentioned.

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**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03948659

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Senior Lecturer, Senior Scientist

**Reviewer's Country/Territory:** Bangladesh

**Author's Country/Territory:** Poland

**Manuscript submission date:** 2022-01-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-03-07 05:48

**Reviewer performed review:** 2022-03-07 07:59

**Review time:** 2 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

This manuscript has been written on an interesting topic. However, several major issues are needed to be resolved before further consideration of this manuscript for publication.

1. Table 5 should be revised. The expression of the paracrine factors should be presented as the presence of paracrine factors in the total preparations using different techniques. The present Table 5 could be given as supplementary. 2. Table 3-5 should be revised. Because they do not reflect the differences in the correlations in the different preparations. 3. Table 6 can be added as supplementary as it is the tabular presentation of figures 3-5. 4. Further English editing by a professional editor could improve the readability of this manuscript.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

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**Reviewer's code:** 03948659

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Senior Lecturer, Senior Scientist

**Reviewer's Country/Territory:** Bangladesh

**Author's Country/Territory:** Poland

**Manuscript submission date:** 2022-01-18

**Reviewer chosen by:** Li-Li Wang

**Reviewer accepted review:** 2022-04-30 05:30

**Reviewer performed review:** 2022-04-30 06:16

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 checked="" type="checkbox"/> Accept (High priority) <input 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**

The authors have addressed all the issues raised by the reviewers.