

## PEER-REVIEW REPORT

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

**Manuscript NO:** 44584

**Title:** Linkage of microbiota and osteoporosis: A mini literature review

**Reviewer's code:** 00033372

**Reviewer's country:** Taiwan

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-11-19

**Date reviewed:** 2018-12-06

**Review time:** 2 Hours, 17 Days

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

### SPECIFIC COMMENTS TO AUTHORS

Dear Editor, The manuscripts entitled "Linkage of Microbiota and Osteoporosis: A mini literature review" describes that gut microbiota has become a recent topic of interest in the role of many disease states. Assessing patients with osteoporosis, there is a strong correlation between gut microbe dysregulation and decreased bone density. Gut

dysbiosis may lead to inflammation, dysregulation of nutrient and calcium transport across the intestine into circulation and systemic inflammation. Investigation of microbial profile relative to normal gut microbiomes, assessment of inflammatory markers such as IL-1, IL-6, and TNF-Alpha. Therapies to normalize gut microbiota in patients with osteoporosis or prevent occurrence of osteoporosis to be investigated include: high fiber prebiotic diets to promote growth of normal gut bacteria and short chain fatty acid production, probiotics to encourage growth of normal gut microbes, and antibiotic treatment followed by fecal matter transplant. The followings need to be addressed in this manuscript. (i) Authors could describe the potential therapy of gut microbiota and metabolic functions by showing it in the figures or tables for easy comprehension. (ii) Authors could describe the effect (positive/negative) of antibiotic treatment on Osteoporosis therapy. (iii) Authors could describe the evidences or studies of microbiota application in the clinical studies and show it in the tables

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

### *BPG Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

## PEER-REVIEW REPORT

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

**Manuscript NO:** 44584

**Title:** Linkage of microbiota and osteoporosis: A mini literature review

**Reviewer's code:** 02698919

**Reviewer's country:** China

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-11-26

**Date reviewed:** 2018-12-08

**Review time:** 14 Hours, 12 Days

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

### SPECIFIC COMMENTS TO AUTHORS

This article discuss a very interest topic: Linkage of Microbiota and Osteoporosis. The authors reviewed literatures to prove there is a strong correlation between gut microbe dysregulation and decreased bone density. But the organization of whole article was too loose and little disorder. The first section could be deleted and readjust into three



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sections: 1. Gut microbe dysregulation and decreased bone density; 2. the possible mechanism of gut dysbiosis lead to osteoporosis; 3. normalize gut microbiota can treat or prevent occurrence of osteoporosis. Because this topic is very new, the literatures need to be recited in detail.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

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- ☐ No

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- ☐ Plagiarism
- ☐ No