

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 72300

**Title:** Analysis of bacterial spectrum, activin A, and CD64 index in patients with chronic obstructive pulmonary disease complicated with pulmonary infections

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

**Peer-review model:** Single blind

**Reviewer's code:** 06081619

**Position:** Peer Reviewer

**Academic degree:**

**Professional title:**

**Reviewer's Country/Territory:** Reviewer\_Country

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

**Manuscript submission date:** 2021-10-11

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-10-15 09:38

**Reviewer performed review:** 2021-10-28 12:26

**Review time:** 13 Days and 2 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 Grade E: Do not publish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

Chronic obstructive pulmonary disease is often complicated by a collection of underlying diseases. The neutrophil CD64 index can act as an early diagnostic marker for infection. Multiple reports correlated the CD64 index with the severity of chronic obstructive pulmonary disease and bacterial infections. Activin A is a member of the transforming growth factor beta superfamily and participates in the regulation of proliferation, chemotaxis, and apoptosis of neutrophils, macrophages, fibroblasts and other cells. There are few reports on the effects of pulmonary infections on the CD64 index and activin A in patients with chronic obstructive pulmonary disease, and the mechanism remains unclear. In this study, the authors analyzed the bacterial spectrum and expressions of the CD64 index and activin A in patients with chronic obstructive pulmonary disease, complicated with pulmonary infection, and discussed relevant mechanisms. This study is very well designed, the methods are clearly described. The results are very interesting. The reviewer suggests to accept this manuscript after a minor editing. The authors should check the language of the manuscript, and the references should be edited and updated.

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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="checkbox"/> ] Anonymous [ <input type="checkbox"/> ] Onymous
	Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No

### **SPECIFIC COMMENTS TO AUTHORS**

This is an interesting study about the bacterial spectrum, activin A, and CD64 index in COPD patients. A total of 96 COPD patients, without pulmonary infection were enrolled in this study. The inclusion and exclusion criteria are reasonable and described in detail. The results are very interesting, and well discussed. I have no specific comments to the authors.