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PEER-REVIEW REPORT

Name of journal: World Journal of Respirology

Manuscript NO: 41651

Title: What Kinds of Structural Abnormalities Are Detected by Functional Measures of Ventilation-Perfusion Distribution, Alveolar-Arterial PO2 Difference, and Pulmonary Diffusing Capacity for CO?

Reviewer's code: 00186496

Reviewer's country: China

Science editor: Ya-Juan Ma

Date sent for review: 2018-09-03

Date reviewed: 2018-09-04

Review time: 1 Day

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[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced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

SPECIFIC COMMENTS TO AUTHORS

We'd appreciate the invitation to review this manuscript which has been read carefully by our team. This review analyzed a variety of anatomical and physiological viewpoints

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to highlight some unsolved problems about structure-function relationships of respiratory physiology. They draw some meaningful conclusions. Firstly, the model A of Weibel is a useful to represent peripheral conducting airways. Secondly, the acinus of Loeschcke and the acinus of Aschoff are thought to act as anatomical and functional gas-exchange unit, respectively. Finally, AaDO2,VA/Q and The DLCO and KCO (DLCO/VAV) are clinically valuable for predicting impaired gas exchange in different situations . The manuscript was well organized and written. The conclusion of this article is plausible.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

[ ] The same title

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[Y] No

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[Y] No