

PEER-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 61421

Title: Acute cor pulmonale in patients with acute respiratory distress syndrome: A comprehensive review

Reviewer's code: 02446483

Position: Editor-in-Chief

Academic degree: FRCP (C), MD, MSc, PhD

Professional title: Full Professor

Reviewer's Country/Territory: Canada

Author's Country/Territory: Singapore

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Reviewer chosen by: AI Technique

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Scientific quality	<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 Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The review is quite comprehensive. Acute respiratory distress syndrome (ARDS)-related acute cor pulmonale (ACP) is an echocardiographic diagnosis marked by combined right ventricular dilatation and septal dyskinesia. Diagnosis and treatments are displayed. Treatments include ventilator adjustment (aiming for arterial partial pressure of carbon dioxide <60 mmHg, plateau pressure <27 cmH₂O, driving pressure <17 cmH₂O), prone positioning, fluid balance optimization and pharmacotherapy. This information is useful, particularly considering the current COVID-19 pandemic. However, in the future directions are missing the experimental data arising from most recent and numerous data on animal experiments. Please add this section into your manuscript.