

PEER-REVIEW REPORT

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Title: Sepsis: Evidence-Based Pathogenesis and Treatment.

Reviewer's code: 05727031

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

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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 Grade E: Do not publish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 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 checked="" type="checkbox"/> Yes <input 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 summary of this manuscript can reflect the current research status of the pathogenesis of sepsis. In combination with the literature, the author interpret the imbalance of redox state in patients with sepsis/septic shock, and the continuous and excessive production of hydrogen peroxide are the main factors with poor prognosis in patients with sepsis. Moreover, antioxidant therapy can significantly improve the prognosis of patients with sepsis by restoring the body's redox balance. otherwise, it is proposed that prophylactic use of sodium sulfate in critically ill patients with hypermetabolic should be considered before irreversible microvascular disorder and bioenergetic failure develop,with the goal of restoring the body's redox homeostasis can improve the patient's prognostics. suggestion as follows 1. Update the references (especially in the last three years) 2. Clarify the hazards of redox imbalance in depth and breadth in septic patients