

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 87199

Title: Antimicrobial approach of abdominal post-surgical infections

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04970307

Position: Peer Reviewer

Academic degree: MMed

Professional title: Associate Chief Physician, Surgeon, Surgical Oncologist

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-07-29

Reviewer chosen by: Geng-Long Liu (Quit 2023)

Reviewer accepted review: 2023-08-31 07:49

Reviewer performed review: 2023-09-10 01:38

Review time: 9 Days and 17 Hours

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 Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 type="checkbox"/> Minor revision <input checked="" 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

SSIs after abdominal surgery are the most common postoperative complications, and cause huge health and financial burden worldwide, especially in low-income countries. Therefore, several international or regional guidelines have introduced aiming to decrease these burdens, such as “Global guidelines for the prevention of surgical site infection” by WHO. However, majority of them concentrated on strategies with prevention ability, while evidence guiding the management of developed SSIs after abdominal surgery have not been summarized comprehensively. Therefore, this review by the authors may add interesting and important information to the literature, although some revisions needed to improve the manuscript.

1.The most important thing of writing a review is organizing the manuscript focusing on the topic, in this review of which is the antibiotic “antimicrobial approach” in “post-abdominal surgical site infections”. Therefore, the section “ANTIMICROBIAL MANAGEMENT” should be reviewed more detailedly, from the current antimicrobial strategies and their limitations, to resolutions and future research directions, but not just listed some results of trials.

2.Future perspectives should focus on the perspectives of the authors, but not just list the



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ongoing clinical trials. 3. Conclusions should focus on summarization of the content of the review and should reach an appropriate conclusion. The variations of bacterial species and gradient across anatomical locations can be moved to section "MICROBIOLOGY". 4. The keywords can be revised more precisely, such as: abdominal post-surgical infections; antimicrobial approach; 5. The writing of the manuscript have been disordered, for example, "MDR Acinetobacter and MDR Pseudomonas are increasing and are related to higher rates of treatment failure camp", need to be revised.

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Reviewer's code: 05199192

Position: Peer Reviewer

Academic degree: MD

Professional title: Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-07-29

Reviewer chosen by: Geng-Long Liu (Quit 2023)

Reviewer accepted review: 2023-08-31 06:18

Reviewer performed review: 2023-09-10 17:53

Review time: 10 Days and 11 Hours

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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input checked="" 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

SPECIFIC COMMENTS TO AUTHORS

1. The susceptible microbial communities existing in various parts mentioned in the conclusion section should be introduced in the background of the manuscript. 2. In the abstract section, the manuscript proposes "focusing on aetiology and treatment", but the content of the manuscript does not provide a detailed overview of the etiology mechanisms and treatment of postoperative abdominal infections. 3. The content emphasized in the manuscript is unclear, as it does not focus on the antimicrobial methods for infection after abdominal surgery, but rather emphasizes the methods for preventing infection after abdominal surgery. 4. The Classification section of the manuscript mentions that different types of surgeries have varying SSI rates. However, the subsequent text fails to provide a comprehensive description of the antibacterial treatment for each specific type of surgery. 5. The sources and timestamps of the incidence rate data mentioned concerning SSI are mostly concentrated before 2017, and the recent years' incidence rates should also be included. 6. In the section "Antimicrobial treatment" on page 8 of the manuscript, indications for antimicrobial therapy and the treatment of different bacterial infections should be described, rather



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than summarizing the conclusions of published articles directly. 7. The content of the "Future Perspectives" and "Conclusions" sections on page 10 of the manuscript is redundant and fails to clearly express the central theme of the document. 8. The conclusion of the manuscript should not cite literature. 9. The conclusion section of this article mentions that the concentration of bacteria in different parts of the gastrointestinal tract varies, and it vividly expresses this information through a graph. However, this part appears to be somewhat abrupt, as it has not been introduced in the preceding context.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Peer Reviewer

Academic degree: MD

Professional title: Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

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Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2023-10-25 02:20

Reviewer performed review: 2023-10-25 02:42

Review time: 1 Hour

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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

No special comments, I agree with the publication.