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PEER-REVIEW REPORT

Name of journal: *World Journal of Transplantation*

Manuscript NO: 95905

Title: Disorders of Potassium Homeostasis after Kidney Transplantation

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 08082382
Position: Peer Reviewer
Academic degree:

Professional title:

Reviewer's Country/Territory: Thailand

Author's Country/Territory: Canada

Manuscript submission date: 2024-04-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-04-22 06:37

Reviewer performed review: 2024-04-22 07:28

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

1. Title Evaluation: The title accurately reflects the manuscript's content on potassium imbalances in kidney transplant recipients. It is specific and appropriately highlights the focus of the study. Verdict: Meets the requirements. 2. Abstract Evaluation: The abstract provides a succinct summary of the study's objectives, methods, significant findings, and the implications of these findings. It is well-aligned with the content described in the manuscript. Verdict: Meets the requirements. Note: The second sentence in your abstract mentions "Both hyperkalemia and hyperkalemia ..." I think you meant 'hyperkalemia' and 'hypokalemia'. Please correct that. 3. Key Words Evaluation: The keywords such as "Balance," "Dialysis," "Hyperkalemia," "Hypokalemia," "Kidney," "Metabolism," and "Potassium" are relevant and cover the manuscript's main subjects effectively. Verdict: Meets the requirements. 4. Background Evaluation: The manuscript offers a comprehensive review of the current knowledge and the significance of potassium homeostasis in kidney transplant recipients, establishing a strong foundation for the review. Verdict: Meets the requirements. 5. Methods Evaluation: As a review article, the manuscript does not involve experimental methods but discusses the literature review

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approach used to compile existing knowledge. Details on systematic approach or selection criteria for studies included could enhance this section. Verdict: Partially meets the requirements, could be improved with more methodological details. 6. Results Evaluation: The "results" in this context are the synthesized findings from reviewed literature. The manuscript effectively achieves its objective of outlining the pathophysiology, management, and clinical implications of potassium disorders in kidney transplant patients. Verdict: Meets the requirements. 7. Discussion Evaluation: The discussion interprets findings from the literature well, linking them to clinical practice and existing knowledge. It highlights the need for consensus on management strategies and suggests areas for further research. Verdict: Meets the requirements. 8. Illustrations and Tables Evaluation: The review of the manuscript did not mention specific figures or tables. Inclusion of visual aids such as charts, tables, or diagrams summarizing the management protocols or pathophysiological mechanisms could enhance understanding. Verdict: Needs improvement. 9. Biostatistics Evaluation: Not applicable as this is a review article without new experimental data. Verdict: Not applicable. 10. Units Evaluation: The manuscript uses standard scientific units appropriately, including the use of SI units for biochemical measurements. Verdict: Meets the requirements. 11. References Evaluation: The manuscript cites current and authoritative references, contributing to a robust and reliable foundation for the review. There is no evident inappropriate self-citation or over-citation. Verdict: Meets the requirements. 12. Quality of Manuscript Organization and Presentation Evaluation: The manuscript is well-organized and presented clearly and concisely. Minor language polishing could enhance its readability and professional tone. Verdict: Meets the requirements with minor revision recommended for language polishing. 13. Research Methods and Reporting Evaluation: For a review paper, the manuscript should align with standards like PRISMA for systematic reviews if applicable. It’s unclear if such

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guidelines were followed for structuring the review. Verdict: Needs clarification on adherence to systematic review guidelines, if applicable. 14. Ethics Statements Evaluation: As a review article, this does not typically require ethical approval unless patient data not publicly available were used. Verdict: Meets the requirements, assuming no new patient data were used. Final Recommendation Given the evaluation, the manuscript requires minor revision to address the need for possible methodological details for the literature review and inclusion of visual aids. The scientific content and relevance to clinical practice are very good, warranting its revision and potential publication.

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Position: Editorial Board
Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: Canada

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The article addresses a relevant and significant topic in the medical care of kidney transplant recipients (KTR), namely potassium imbalance. It appropriately acknowledges that both hyperkalemia and hypokalemia can present as medical emergencies or chronic abnormalities in outpatient settings. However, the lack of consensus regarding the management of hyperkalemia in KTR highlights the need for a thorough review of current treatment strategies. The article provides an overview of the etiology and pathophysiology of potassium disorders in KTR, which is crucial for understanding the proposed therapeutic approaches. Additionally, it highlights various treatment approaches including correcting insulin deficiency, adjustments in immunosuppressive and non-immunosuppressive medications, potassium supplementation or elimination as necessary, and dietary counseling. This comprehensive approach is essential for effectively addressing potassium imbalances in this patient population. However, it would be beneficial if the article more specifically addressed criteria for determining when intervention in an emergent situation is necessary and provided clear guidelines on how to conduct regular monitoring of

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potassium levels in KTR. Furthermore, a more detailed discussion on the potential complications associated with hypokalemia and hyperkalemia, as well as preventive strategies, would further strengthen the article. Overall, the article offers an informative review on the management of potassium disorders in kidney transplant recipients, but there are areas that could be expanded or improved to provide a more comprehensive and practical guide for clinicians managing these patients.