

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 39724

**Title:** Oral alkali therapy and the management of metabolic Acidosis of CKD: A narrative literature review

**Reviewer's code:** 01704618

**Reviewer's country:** Reviewer\_Country

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-05-07

**Date reviewed:** 2018-05-15

**Review time:** 8 Days

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

## SPECIFIC COMMENTS TO AUTHORS

In this manuscript, the authors reviewed the literature on the effects of the oral alkali therapy in the management of metabolic acidosis of CKD. I feel this is a useful review and well written manuscript I have the following comments: 1. Would the authors



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comment on what database they reviewed for this systematic review of the subject? 2. I recommend the authors add the one figure to describe the alternative pathophysiological pathways that lead to metabolic acidosis in used CKD and on the same line the potential beneficial effects of alkali treatment. 3. Since one of natural intervention is the use of fruits and vegetables can the authors provide the portions of each associated amount of alkali provided.

Reply by author

Thank you for your review and suggestions. I highly appreciate your input on the paper. Specifically to the suggestions made, since this was a mini review the format did not require database searched to be specifically mentioned however a standard search strategy was used using Pubmed, medline, Cochrane database, clinicaltrials.gov and google scholar, further specific key words can be outlined if required by the editorial board. Adding a figure would enhance the review. finally, we debated the addition of specific fruits and vegetables however the list is vast (alkali diet) and if in clinic we are looking to initiate it, dietician input would be necessary and follow-up required thus we felt it was beyond the scope at this stage to mention individual fruits and vegetables (most are considered alkali).

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 39724

**Title:** Oral alkali therapy and the management of metabolic Acidosis of CKD: A narrative literature review

**Reviewer's code:** 02889203

**Reviewer's country:** Greece

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-05-07

**Date reviewed:** 2018-05-17

**Review time:** 10 Days

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

### SPECIFIC COMMENTS TO AUTHORS

Indeed, this paper is very narrative and it includes a lot of literature. However, its originality is poor. - In mechanism of injury section, please insert that metabolic acidosis stimulates the inflammation due to the production of cytokines. The



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pathophysiology by metabolic acidosis is very complicated. - In potential adverse effects section, you must report the incidences of metabolic alkalosis (milk-alkali syndrome) by the receiving of sodium bicarbonate, as an important complication leading in acute renal failure and rapidly impairment of eGFR. - Please, rephrase the recommendations section.

Reply by author

Thank you for your review and suggestions. In specific , sodium bicarbonate supplementation to maintain optimum serum bicarbonate levels, has never been reported to cause milk alkali syndrome and acute kidney injury in any of the randomized control trials. Milk alkali syndrome would require over dosing of calcium supplements with metabolic alkalosis and we do not feel it is plausible with sodium bicarbonate on its own.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 39724

**Title:** Oral alkali therapy and the management of metabolic Acidosis of CKD: A narrative literature review

**Reviewer's code:** 03522806

**Reviewer's country:** Iran

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-05-18

**Date reviewed:** 2018-05-18

**Review time:** 2 Hours

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

### SPECIFIC COMMENTS TO AUTHORS

In this well-written paper, authors have reviewed recent publications on the usage of oral alkali for the management of CKD metabolic acidosis. The included paper are conclusive and the paper is informative. The table has also been prepared based on their

literature review. The article is recommended for publication.

Reply by author:

Thank you for your review . Your comments are highly encouraging.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 39724

**Title:** Oral alkali therapy and the management of metabolic Acidosis of CKD: A narrative literature review

**Reviewer's code:** 00503288

**Reviewer's country:** Serbia

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-05-18

**Date reviewed:** 2018-05-20

**Review time:** 2 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This paper deals with a important topics, "highlights the current evidence available primarily from randomised control trials over the last decade in managing metabolic acidosis of chronic kidney diseases". Study is are extremely valuable and relevant for



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<https://www.wjgnet.com>

clinical practice and understanding of the problem treatment of metabolic acidosis with oral preparations, in patients with chronic kidney diseases. The paper is written clearly and informatively, with clear recommendations on the methods of oral metabolic acidosis treatment, conclusion appropriately summarize the data that this study provided.

**Reply by author:**

Thank you for your review. Your comments are highly encouraging.