Reviewer's report

Title: The Efficacy and Safety of Lanthanum Carbonate on Chronic Kidney Disease Mineral and Bone Disorder in Dialysis Patients: A Systematic Review

Version: 2 Date: 31 July 2013

Reviewer: Bjorn Meijers

Reviewer's report:

The authors have addressed my major concerns. Despite the authors’ claim that the manuscript has been redrafted, the manuscript needs some language corrections before it can be accepted for publication. Please find a non-exclusive list of minor essential revisions below:

Abstract:
- Results:
  * LC can decrease serum phosphorus level and Ca×P product compared with placebo. I would suggest rephrasing: LC decreased…as compared to…
  * “in lowering vascular calcification or cardiovascular events, improving bone morphology or metabolism, improving bone turnover parameters.” Please change into “in lowering…events and improving bone morphology, bone metabolism or bone turnover parameters.”
  * People treated…abdominal pain were observed. “were observed” is redundant.
  * “Both the contents of lanthanum in blood and bone were under the limit of quantification which would be harmful to body”. Please rephrase (e.g. accumulation of LC in both blood and bone were below toxic levels).

Background:
- First paragraph: * 40% patients, please change into “40% of patients”
- Increasing evidences showed…evidence instead of evidences

Methods:
- Interventions: * other medications can…change into could
- Dietary restriction was not mandatorily required…change into “not mandatory.”
- Outcome: Calcium instead of callcium
- Quality assessment: “will be” resolved, better change into were/would be
- Data extraction: If the studies showed the results just with diagrams whose data cannot be collected…I suggest rephrasing (e.g. only displayed the results within diagrams of which data could not be retrieved)
- Statistics: please rephrase using uniform verb tenses (past)

Results:
- characteristics of study: please leave “Error! Bookmark not defined”
- effect on biochemical parameters: “And there was no difference when LC compared with CC group”, please change into “was compared” (see also other sentences in the current draft)
- bone disorder: “Participates in three studies[20-22] performed at least once bone biopsy”, please change into ‘received at least one bone biopsy/once a biopsy)
- side effects: “LC appeared a higher rate of vomiting”, please change into “there was a higher rate…”

Discussion:
- “The meta-analysis did not show lanthanum decrease all-cause mortality or cardiovascular events”, please change into did not demonstrate “that” (see also other sentences in the current draft)

Conclusion:
- “without elevation the serum calcium level”, please change into “elevating”

Figure 1
Please make this figure more concise and uniform (e.g. delete “0 citations from others sources”, …)

References
Ref 23 and 31: leave out *
Reference in between reference 23 and 24 has not been numbered
Ref 31: reference info repeated
Ref 44: Typo: Main author is Evenepoel and typo: Kidney int should be Kidney Int

**Level of interest:** An article of importance in its field

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**
I declare that I have no competing interests