Reviewer’s report

Title: Abdominal aortic calcification is superior to other arteries calcification in predicting the mortality in peritoneal dialysis patients – a 8 years cohort study

Version: 1 Date: 31 Jul 2019

Reviewer: Nada Dimkovic

Reviewer's report:

Paper 'Abdominal aortic calcification is superior to other arteries calcification in predicting the prognosis in peritoneal dialysis patients - a 8 years cohort study' gave a certain contribution to the significance of vascular calcification in ESRD patients. Although lacking in originality, paper includes PD patients that have been less frequently analysed. Together with long follow-up, it may contribute to better understanding of the problem.

Still, there are some correction that have to be made:
Secondary end points need to be clearly defined without statement 'so on'.
It is important to know if patients were treated with the same method and solutions (CAPD/IPD/APD, use of icodextran..)

Note if some patients were switched from initial HD to PD.

Therapy is very important: frequency of use of calcium based phosphate binders and, if possible, vitamin D metabolite and calcimimetics

Note intra-observer variability of radiologists.

Numerations of tables need to be consecutive. Therefore, Table 2 cannot be after Table 3.
I believe that there are a lot of figures. Also, in the headings of figures 5 and 6 adjusting variables should be noted.

In discussion, authors should discuss the reasons for different calcification process in different blood vessels. Look at reference: Schlieper G (2014) Vascular calcification in chronic kidney disease: not all arteries are created equal. Kidney Int 85:501-503.

Please confirm that you have included your review in the ‘Comments to Author’ box?

As a minimum standard, please include a few sentences that outline what you think are the authors’ hypothesis/objectives, their main results, and the conclusions drawn. Your report should constructively instruct authors on how they can strengthen their paper to the point where it may be acceptable for publication, or provide detailed reasons as to why the manuscript does not fulfil our criteria for consideration. Please supply appropriate evidence using examples from the manuscript to substantiate your comments. Please break your comments into two bulleted or numbered sections: major and minor comments.

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Please only upload as attachments annotated versions of manuscripts, graphs, supporting materials or other aspects of your report which cannot be included as text in the ‘Comments to Author’ box.

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**Are the methods appropriate and well described to allow independent reproduction of experiments?**
Please state in the ‘Comments to Authors’ box below what you think are the strengths and weaknesses of the methods (study design, data collection, and data analysis), and what is required, if anything, to improve the quality of reporting.

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**Does the work include the necessary controls?**
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No

**Are you able to assess the statistics?**
- Are the statistical test(s) used in this study appropriate and well described?
- Is the exact sample size (n) reported for each experimental group/condition (as a number, not a range)?
- Are the description of any error bars and probability values appropriate?
- Are all error bars defined in the corresponding figure legends?
- Has a sample size calculation been included, or a description and rationale about how sample sizes were chosen?

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