Reviewer’s report

Title: Association between renal function and bone mineral density in healthy postmenopausal Chinese women

Version: 1 Date: 25 Sep 2019

Reviewer: Daigo Nakazawa

Reviewer's report:

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1. The authors showed that eGFR was not associated with osteoporosis after controlling for age, menopausal duration. The eGFR itself is calculated by age, which means that age must be a strong confound factor for eGFR. Therefore, in this data, BMD could be heavily influenced by age (and menopausal duration). The point is that in this study the relation between GFR and BMD should be analysed in age,menopausal duration,-matched subgroup, otherwise, this argument would be invalid.

2. Although authors commented the limitation about the use of CKD-EPI(creatinine), at least, relatively good renal function should be assessed by cystatin-based GFR (MDRD and or CKD-EPI).

3. In method part authors explained that subjects with renal dysfunction were excluded, how was the renal dysfunction defined? urine test, or imaging examination? Because this study included women with GFR 60-90, if patients have these abnormalities, the patients should be classified to CKD stage 2. The explanation should be clearly stated.
   While, in discussion part (page9,lane17), authors suggested that the overestimation of spine BMD might be caused by the calcification complicated with renal dysfunction. This conflicting explanation could confuse us.

4. In discussion part(page8 .lane13~), the authors discussed about the skeletal site-specificity differences in this study, however, the trend of BMD reduction (cortical bone>cancellous bone) is also the feature of CKD-MBD. This study focused on renal function. If in subgroup analysis reduced renal function will have a correlation to low BMD, the contribution of CKD-MBD should be debated.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess
Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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