Reviewer’s report

Title: Cortical and trabecular bone are equally affected in rats with renal failure and secondary hyperparathyroidism

Version: 1  Date: 14 Nov 2017

Reviewer: Pascal Houillier

Reviewer’s report:

Concerns 1 and 2. At least, the authors could have addressed the limits of their model in the discussion

Concern 3. There is some misunderstanding here. Actually, creatinine can be used to show that GFR is decreased, compared with a control group, or even to follow the course of GFR over time. However, at D19, creatinine level in Nx rats is more than twice as high as in control rats. This reviewer is unsure this corresponds to "early" CKD, unless measured GFR shows that the decrease is mild, as compared with the control group

Concern 4. The authors have added the R2 and p values. Still the plots on Fig.7 are highly scattered and not quite convincing. In addition, as already mentioned, no attempt to get any insight into the molecular mechanisms going on has been made

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.

Yes

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 am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal