**Reviewer's report**

**Title:** Association between glycosylated hemoglobin A1c and bone biochemical markers in type 2 diabetic postmenopausal women: a cross-sectional study

**Version:** 0  **Date:** 26 Oct 2018

**Reviewer:** Makiko Ogata

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In this manuscript, the relationships of bone metabolic markers were assessed in postmenopausal women with type 2 diabetes. The author shows that HbA1c level is related to osteocalcin level in postmenopausal women with type 2 diabetes.

In this manuscript, the relationships of bone metabolic markers were assessed in postmenopausal women with type 2 diabetes. The author shows that HbA1c level is related to osteocalcin level in postmenopausal women with type 2 diabetes.

**Major point:**

1. The inclusion criteria must be presented in detail, not only for subjects with type 2 diabetes but also for subjects described as "normal" controls. Complications of type 2 diabetes include increased fracture risk. βCTX-1 and P1NP are markers secreted by the kidney; therefore, renal dysfunction affects their levels. If there are subjects with obvious renal dysfunction, these subjects must be excluded from the first evaluation. The criteria used to evaluate normal glucose tolerance and other metabolic factors should also be described in detail.

2. There are several reports regarding bone metabolic markers in patients with type 2 diabetes that are not mentioned in this manuscript. It has also been reported that low bone turnover in postmenopausal women with type 2 diabetes together with the negative relationship to average HbA1c between 6 months and CTX-1 level. The author should include additional discussion of the following previous reports:


Minor points:

1. Page 9, lines 50-17: The author referenced a report of a vitamin D-deficient mouse. In general, vitamin D inhibits bone absorption. The interpretation of this reference must be reconsidered.

2. The following are examples of typographical errors in the manuscript:

Page 10, line 9: 25 (OH) D3→25(OH)D3

Table 4: Association of HBA1c→Association of HbA1c

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

Unable to assess

**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.

Yes

**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
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