Reviewer’s report

Title: Risk of chronic kidney disease in young adults with impaired glucose tolerance/impaired fasting glucose: a retrospective cohort study using electronic primary care records

Version: 0 Date: 05 Nov 2017

Reviewer: Aya Kadota

Reviewer’s report:

With a large electronic patients record dataset, the authors examined the incidence rate ratio of CKD incidence between impaired glucose regulation and normoglycaemia although the median follow up was only 1.7 years.

1. The authors stated that IGR increases the risk of CKD 3-5 by approximately 4times than the risk of CKD1-2. Regarding analysis and discussion about the results of table 5, this reviewer think it necessary to show the actual case numbers by CKD stages because the 95%CI of CKD 3-5 was broad. If the actual case number of CKD3-5 is small, we can't discuss by CKD stages. And also they have to show adjusted incidence rate of CKD1-2 and 3-5 for both IGR and normoglycemia to get the conclusion. Because CKD 3-5; eGFR<60 is strongly related with age and blood pressure level, at least, age and hypertension should be adjusted. Based on the added analysis, further discussion will be required.

2. Reconfirm the sentences in P17, L20-28, there might be some mistakes.

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

Yes

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

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