Reviewer’s report

Title: Clinical characteristics of adrenal crisis in adult population with and without predisposing chronic adrenal insufficiency: a retrospective cohort study

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Reviewer: Mi-Kyung Kim

Reviewer's report:

Review

Adrenal crisis is life threatening disease but there is lack of data. Therefore, this manuscript is valuable to find characteristics of adrenal crisis. However, there are some questions about the study

1. Table S1

(1) Table S1 showed disease list based on ICD-10.

Could you check iatrogenic Cushing syndrome (E24.2)?

2. Authors divided 3 groups; primary, secondary and others.

Authors defined "others" as adrenal insufficiency with various pathophysiologic background. However, it is not clear. According to reference 1, drug induced adrenal insufficiency is classified as tertiary (hypothalamic). Because of lack of confirmation test between pituitary or hypothalamic origin, it could be better to divide primary/secondary, namely primary/central. If authors used primary/secondary (hypothalamic-pituitary) and others, do authors classify drug-induced adrenal insufficiency as other could is one of the list of secondary adrenal insufficiency. I think this classification is not usual. Therefore, based on reference 1, 16, authors need to define "others" more clearly.

3. Comorbidity in table 2 is accompanied disease at admission. It could be a direct or indirect cause of adrenal crisis. As authors mentioned, discontinuation of drug is one of the common cause of adrenal crisis. It is helpful to check direct causes of adrenal crisis at index date for prevention of adrenal crisis.
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.

No

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

Yes

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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

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Needs some language corrections before being published

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