Reviewer's report

Title: Adherence to long-term use of renin-angiotensin II-aldosterone system inhibitors in children with chronic kidney disease

Version: 0 Date: 23 Nov 2018

Reviewer: Frederick J. Kaskel

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The authors reviewed the important role of adherence to RASIs in childhood CKD using a population-based cohort in the NHIRD. Using pharmacy prescription refill data, adherence was assessed by the proportion of days covered (PDC) as defined as the number of follow up days covered with medication divided by the total number of days in follow up.

Suggestions:

1) P. 4 line 51: the authors state that medication adherence in childhood CKD is limited to short term, 7 days, time frame. There are reports in the literature addressing adherence to medications in the Chronic Kidney Disease in Children Cohort that should be acknowledged in the Introduction or Discussion. One is included in the References and another is listed below using self reported medication adherence questionnaires.

   Medication adherence and growth in children with CKD. Akchurin OM1, Schneider, M Mulqueen L2, Brooks ER, Langman CB, Greenbaum LA, Furth SL, Moxey-Mims M, Warady BA, Kaskel FJ, Skversky AL. Self-reported nonadherence to rhGH was associated with poorer growth velocity in children with CKD, suggesting an opportunity for intervention and improved patient outcome.

2) Is a 90 day minimum period sufficient time to assess for pharmacy refills? I am assuming that a 30 day supply is prescribed.

3) Was edema present in those subjects with proteinuria and non-adherence?

4) Do the authors want to summarize that their method of identifying the PDC in the first 90 days of prescription might be used as a signal for intervention?
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.

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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None

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