Reviewer’s report

Title: Renin-angiotensin system gene polymorphisms and high blood pressure in Lithuanian children and adolescents

Version: 0 Date: 22 Jan 2017

Reviewer: Kirsty Pringle

Reviewer’s report:

The study by Simonyte and colleagues examines the distribution of polymorphisms in genes of the renin-angiotensin system and their association with high blood pressure in Lithuanian children and adolescents. The study is well-designed, the results sufficiently presented and the conclusions appropriate. I have only a few suggestions for the authors.

1. Page 4, line 84: please clarify whether you are referring to RAAS concentrations, activity or SNPs

2. Page 4, line 88: please change to "polymorphism in the AGT gene was associated with hypertension in Caucasians.

3. Page 4, line 92: should read "The ACE insertion deletion (ID) polymorphism…"

4. Page 5, line 102 and p10, line 246: "school children" should be two words

5. Page 5, line 104: I suggest this be changed to "might be associated with an increased risk for higher blood pressure and hypertension…"

6. P5, line 110: change to "included a randomly selected sample"

7. P5, line 113-114: I suggest this be changed to "there were 7,638 children and adolescents enrolled ages 12 to 15 years…"

8. Page 7, line 170: should this be 25 L rather than 25-mL?

9. Page 10, lines 228-229 and Table 3: is there also an association with the C allele (in AGTR1) and the D allele in ACE with HBP?

10. Page 12, line 275-276: suggest this be changed to "we found significant evidence of an association between the ACE ID genotype in boys…"

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?
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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

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Please indicate the quality of language in the manuscript:

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