Reviewer's report

Title: Primary results of Abdominal Aortic Aneurysm Screening in the at-risk residents in Middle China

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Reviewer: Pinar Ulug

Reviewer's report:
This is an interesting paper reporting prevalence and epidemiological data on screen-detected AAA in individuals identified at risk of cardiovascular disease in Middle China, a topic where information is scarce.
I have the following comments and suggestions:
Abstract, line10, "All at-risk residents…..": I find this sentence a little misleading as it does not make it clear that the at-risk group invited for ultrasound scan was *selected* after completion of cardiovascular risk factor questionnaires. It would be helpful to clarify the study included selected participants in the abstract (it is clear in the rest of the paper).
Abstract, line 20, 22 & 26: I would have expected to see 95% confidence interval provided for the prevalence percentages reported here. And I would have preferred prevalence to be given in 2 decimal points (not one).
Background, line 5-17. The sentence starting "A population-based ultrasonography….." is repeated twice, but different references are quoted each time (line 11 and line 17)
Figures 1 & 2: As these figures include a very wide range of diameter measurements, if possible, it would help to break the y-axis so that the larger diameters at low frequencies are 'pulled up' and become easier to view on the graph.
Overall:
In several places in the manuscript, the authors refer to their findings as "AAA incidence", which in my opinion is not the correct term. They are reporting an estimate of the *prevalence* expressed as a percentage, which they calculated as the number of participants with AAA divided by the number of participants who were successfully screened.
As the analysis includes large numbers of significance tests, do the author think it is necessary to adjust the p value threshold for significance?

**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:
Needs some language corrections before being published

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