Reviewer’s report

Title: Association of obesity with socioeconomic status among adults aged 18~80 years old in rural northwest China

Version: 2
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Reviewer: Estrella Miqueleiz

Reviewer’s report:

1. They don’t indicate the non-response rate. It would be interesting to add a table with the sociodemographic characteristics of the study subjects.

2. It would be interesting to conduct a logistic regression to see the relationship between obesity relationship and SEP adjusted for risk factors analyzed in the study, to see whether the differences observed between SEP and obesity may be due to differences observed between SEP and risk factors.

3. It would be interesting to perform the logistic regressions by age group. It could be differences between the youngest and the oldest subjects.

They have to put the reason that has made the different categories.

5. Page 7. Third paragraph (Line 164-165).
They say that the prevalence is higher in women when the OR is 0.77. Error in interpreting the results.

Comparisons with the results of other studies are confusing and do not give an idea of the prevalence of obesity in each area. It is recommended to restructure the paragraph.

7. Page 9. First paragraph (Line 211). It’s necessary a reference when they say that in developed societies there is a negative association between SEP and obesity in women but not in men is given.

8. Page 9. First paragraph (Line 214). It is not clear whether it refers to the results of this study or the reviewed literature.

9. Page 9. First paragraph (Line 216). Mechanisms of SEP-obesity association. They have to delve a little more and put some other mechanism that has been studied in previous studies.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.