Reviewer's report

Title: Risk of obesity in immigrants compared with Swedes in two deprived neighbourhoods

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Reviewer: Irina Grafova

Reviewer's report:

Authors significantly improved the manuscript. In particular, they smoothed the flow of the paper addressing my previous concerns. There are few minor points that I think authors should clear.

Table 2 depicts obesity prevalence by country of birth and gender. It would be nice if authors would conduct statistical test to show whether these differences in prevalence rates are statistically significant. Given that the sample size is modest it is important to make sure that the differences are statistically significant.

Table 2 has two footnotes that are not entirely clear. I think that instead of “Men: #102 cm, Women # 88 cm” authors should have something like “Men(women) are defined to be abdominally obese if their waist circumference (WC) is #102(88) cm.” I would change footnote 2 in a similar manner.

Table 3 demonstrates that individuals who resided in the deprived neighborhoods for 5-9 years are more likely to be BF obese than individuals who resided in these neighborhoods for 0-4 years. However, those who resided in deprived neighborhoods for 10+ years are as likely to be BF obese as those individuals who lived their for 0-4 years. Thus, the adverse effect of neighborhood deprivation on obesity is reversed once individuals lived in the deprived neighborhoods for more than 10 years. This is a very interesting and unusual finding. I think authors should comment on it.

“Fatpercentage” in Tables 2,3, and 4 should read “fat percentage”

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests.