Reviewer's report

Title: Using latent class analysis to develop a model of the relationship between socioeconomic position and ethnicity: cross-sectional analyses from a multi-ethnic birth cohort study

Version: 1 Date: 10 February 2014

Reviewer: Charu Mathur

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Major Compulsory Revisions

It's not clear what are the implications of the findings in terms of improving the health of these disadvantaged women, and how can these findings help future research? The authors have focused only on the methodological aspect of their research/findings and fail to answer the question "so what" or "what do we do with these findings"

Discussions section is not well developed and needs work.

Rationale for doing analysis 1) entire sample with ethnicity as a covariate, 2) doing a subgroup analysis

The authors should present a table for model selection with the fit indices (AIC,BIC etc) for models with 2-10 latent classes.

The authors should present the range of average posterior probabilities of membership in each class.

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.

Declaration of competing interests:

I declare that I have no competing interests