Reviewer's report

Title: SRH and HrQOL: Does Social Position Impact Differently on Their Link with Health Status?

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Reviewer: Min-Woo Jo

Reviewer's report:

This study is meaningful because it examined the influences of socio-economic positions regarding physical health conditions on health outcomes such as self-rated health and quality of life in the national representative sample. However, in order to validly derive a conclusion as what authors formulate, I think authors should consider the following several points.

- Major Compulsory Revisions

Authors excluded participants younger than 18 years old but I think authors should exclude people younger than 24 or 29 years old. A considerable people among young adults aged 19~24 or 29 will be well-educated people (i.e. >12) so including young adults might aggravate a biased conclusion.

Also, when household income was considered, researchers should think the number of household member. Who are more rich between one person who earns €25,000 annually and a family of four that makes a money €50,000 during same period?

In addition, authors should consider other confounding factors for SRH and QOL. Various factors including comorbidities that can be obtained from the NHS can affect SRH or QOL so those factors should be included in the multivariate model.

Authors provided ‘% adjusted for age’ in all tables, what are the values? Are they standardized value according to the number of age group in the specific year or expected values from the age-adjusted model? Authors must provide more explicit descriptions in the manuscript and tables.

Minor Essential Revisions

In Table 1, units of PCS and MCS are not %.

- Discretionary Revisions

Authors described that “Social gradient was steeper for FL than for low back pain, with both socioeconomic indicators (education and income)” in page 10 but it might be not correct. The amount of steepness can be dependent on the classification of variables therefore I think that those expressions can be somewhat conclusive.
**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.