

## Peer Review Report

# Review Report on Early weight status and human capital in adulthood: a 32-year follow-up of the 1970 British Cohort study

Original Article, Int J Public Health

Reviewer: Erik Sigmund

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### EVALUATION

#### **Q 1** Please summarize the main findings of the study.

The present study is the first to empirically identify adolescence as a critical period during which obesity affects human capital in adulthood. Human capital includes not only a single variable, but groups of variables including cognitive ability, non-cognitive skills, educational attainment, and health status.

#### **Q 2** Please highlight the limitations and strengths.

The strengths of the study are clearly the longitudinal design, the comprehensive focus on a group of variables characterizing human capital, and the use of objective measurement in determining body weight. The use of BMI to classify obesity can be considered a limitation of the study. BMI does not take into account the distribution of adiposity.

#### **Q 3** Please provide your detailed review report to the authors. The editors prefer to receive your review structured in major and minor comments. Please consider in your review the methods (statistical methods valid and correctly applied (e.g. sample size, choice of test), is the study replicable based on the method description?), results, data interpretation and references. If there are any objective errors, or if the conclusions are not supported, you should detail your concerns.

The manuscript is very clearly and consistently written. I have only minor criticisms of the manuscript:

Page 3 line 63 - define the abbreviation SES.

Page 4 line 67 - define the abbreviation BMI. Although the abbreviation BMI is defined on page 4 line 77, it should be defined correctly the first time it is used in the text.

Page 4 lines 69 and 70 - insert spaces after the period at the end of the sentence - ...of age (2012).Our analysis... ...age 42 (adulthood).The reason...

Page 5 line 94 - delete the extra space before the comma - ...from education , other...

Page 6 line 120 - insert missing space - ...qualification;(2)... and define the abbreviation CSE.

Page 11 line 228 - edit the spaces - ...for males ,which is....

### PLEASE COMMENT

#### **Q 4** Is the title appropriate, concise, attractive?

Yes

#### **Q 5** Are the keywords appropriate?

Instead of the keyword BMI, it is better to use adolescence.

#### **Q 6** Is the English language of sufficient quality?

Yes

**Q 7** Is the quality of the figures and tables satisfactory?

Yes.

**Q 8** Does the reference list cover the relevant literature adequately and in an unbiased manner?)

Yes

#### QUALITY ASSESSMENT

**Q 9** Originality

**Q 10** Rigor

**Q 11** Significance to the field

**Q 12** Interest to a general audience

**Q 13** Quality of the writing

**Q 14** Overall scientific quality of the study

#### REVISION LEVEL

**Q 15** Please make a recommendation based on your comments:

Minor revisions.