

Prevalence of Type 2-diabetes mellitus and impaired fasting glucose, and their associated lifestyle factors among teachers in the CLUSTER cohort

Basic reporting

The article meets the journal's guidelines. Ethical approval statements have been checked. The data has been deidentified and the experiments conducted have been ethical. The supplemental files (figures and datasets), and the figures and tables in the manuscript have been checked. The R script has been successfully reproduced on a windows 10 machine with Rstudio. The sample sizes have been confirmed as well.

Overall, I commend the authors that the research layout is clear to understand. Professional English language has been used throughout. Figures are relevant and labelled.

Experimental design

Revisions

- Please mention the expansions along with the abbreviations at the first occurrence in the article (eg. Impaired fasting glucose (IFG))
- Line 61: The prevalence of T2DM in the general population increased but by what amount, please mention. Perhaps similar studies on NHANES data (eg. doi: 10.1001/jama.2021.9883) could help.
- Line 62-64: Sentence starting with Concurrently needs a grammar check, rephrase it please.
- Line 64: Please mention, if available, by what amount the IFG levels have increased.
- Great job noticing the fact that there is a lack of data on non-communicable diseases among the teacher population in Malaysia.
- Study sampling design has been clearly explained along with the study variables.
- Line 117-119: The idea leading up to multiplying the teacher's weight and the school's weight needs a bit more explanation. Perhaps authors can use Sharon Lohr's book on sampling design which explains the complex analysis in detail to address this point.
- Line 128: p value < 0.25 instead of "p < 0.25".
- Line 131: Variance inflation factors < 5 suggesting no multicollinearity is sort of a thumb rule, I have seen studies where the threshold is 10. Please provide a reference if possible on the threshold for multicollinearity. Maybe the authors can find John Fox's original paper on multicollinearity to cite here.

Validity of the findings

- Line 193-194: BMI (waist measurement) has already been proven to be a good indicator of T2DM <https://bmcpublihealth.biomedcentral.com/articles/10.1186/1471-2458-12-631>. Maybe authors could cite any of these reports to corroborate their findings.
- Line 198: Please mention the p value. It strengthens the argument.
- Line 220: p value < 0.05 instead of "p < 0.05".
- Line 319: "Sleep deficiency, acute stress, and other mental health conditions are often associated with stimulation of appetite", please cite the source.
- Over all the Discussion section is pretty robust.