Reviewer’s report

Title: Identifying binge drinkers based on parenting dimensions and alcohol-specific parenting practices: building classifiers on adolescent-parent paired data

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Reviewer: Adriana Sanudo

Reviewer’s report:

It is an interesting paper presenting data from Dutch adolescent-parent dyads concerning binge drinking among young people aged 16 to 18 y.o.

The study included three established dimensions of parenting: support, psychological control, and one aspect of behavioural control assessing parental knowledge of their children’s activities.

The study uses computational technique of data mining to explain the complex mechanisms underlying binge drinking. Through data mining algorithms they examine how drinking in adolescents is influenced by parenting dimensions and alcohol-specific parenting practices.

Methods section is well detailed but the section “Measure” (Parenting dimensions) must be improved by placing the range of five-point response scale.

In Table 2, it’s not clear what the authors meant by “cases”. In any other section of the paper, the term “cases” is used and the reader cannot understand what is a case. Are “cases the “All” that appear in the Excel file? If yes, explain it clearly in the manuscript.

The results that appear in the link https://osf.io/tbqy7/ do not match the ones the authors showed in Table 2. Which one is the correct? Please change appropriately.

The discussion is clear and presents recent studies. The authors note the study limitation that they cannot perform a causal association once the study is cross-sectional.

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' below.