

Peer Review

Review of: "Summer Birth and Clinical Characteristics in Schizophrenia: A Cross-Sectional Study"

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Thank you for inviting me to review this draft. In this study, the authors aimed to assess the relationship between the season of birth and characteristics of people with schizophrenia in a cross-sectional manner. This subject is interesting, and I admire the work of the authors. However, I have several major concerns that really need to be addressed.

- The whole draft needs revision regarding punctuation marks, spaces, diction, and grammar.
- The authors mention summer birth in the title, while in the abstract, they only mention seasonality. The writing should be consistent.
- The abstract would be better if it were less than 250-300 words.
- I recommend mentioning the country and city of the study in the abstract.
- I recommend removing the quote by Hippocrates in the introduction.
- It remains unclear why the authors have not introduced various studies in this field in the introduction. Most previous studies are in favor of winter-spring seasons correlated with the disease.
- The study needs an ethical code, and it should be mentioned that it has been reviewed by the ethical board of the university.
- The methods section lacks a sample size calculation.
- Please correct the date in the first paragraph of the methods.
- The call-out appendix 1+2+3 should be Appendix 1-3.
- You have repeatedly explained the process of data gathering, the subject's characteristics, and inclusion and exclusion criteria in your methods. Please revise your methods in this regard.

- You have stated that in case of missing data on the hospital records, you called the patients. Why did you exclude people with missing data? Moreover, were all patients alive? Please explain these concerns.
- Some variables in your results are not completely explained by the methods, such as consanguinity, early-onset disease, and socio-economic levels.
- You have repeatedly added the row of "sociodemographic characteristics" in Table 1.
- In Figure 1, you have not stated the date of patient admission correctly. Moreover, what are the differences between lost hospital records, empty records, and missing data?
- All over your manuscript, watch out for the use of the words sex and gender. Females and males are types of biological sexes.
- You should provide the exact numeric value of the p-value calculated in your analysis in your tables.
- Delusional mechanisms would be better described as the type of delusion.
- In your introduction and discussion, not all statements are followed by citations.
- There are various irrelevant references in your discussion that make one lose trust in the reliability of the text. For instance, none of the references *Maternal infection in gestation increases the risk of non-affective psychosis in offspring: a meta-analysis*, *A meta-analysis of deep brain structural shape and asymmetry abnormalities in 2,833 individuals with schizophrenia compared with 3,929 healthy volunteers via the ENIGMA consortium*, and *Risk in relatives, heritability, SNP-based heritability, and genetic correlations in psychiatric disorders: A review* has talked about the season of birth.
- Finally, there is no data availability statement.

I appreciate the work of the authors, but I believe that this manuscript should undergo extensive revisions with the help of seniors and should be double-checked by all the authors.

Declarations

Potential competing interests: No potential competing interests to declare.