

# Review of: "The Rural-Urban Divide: Insights from Immuno-Genetic Profiles and Implications for Health"

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**Potential competing interests:** No potential competing interests to declare.

I am grateful for the opportunity to review this manuscript. The article delves into a relatively unexplored but vital field by providing insight into immunogenetic disparities between rural and urban populations. This could contribute significantly to our understanding of the health implications in these communities. However, there are certain aspects of the manuscript that require further clarification and elaboration to improve its overall impact and scientific rigor.

Specific comments are provided below:

## INTRODUCTION

- Consider adding relevant prior studies to support the initial claims and strengthen the theoretical foundation. Add references (paragraph 1)
- It would be useful to provide more details on how rural and urban lifestyle differences specifically affect immunological profiles. (paragraph 2)
- Expand the discussion on how genetic differences between rural and urban populations may influence susceptibility to diseases. (paragraph 3)
- Strengthen with additional literature the notion that urbanisation has changed disease patterns. (paragraph 6)
- Clarify the hypotheses or research questions guiding the study. (paragraph 6)

## MATERIAL AND METHODS

- Describe the statistical procedures used and justify their choice.

### *Ethics Statement:*

- Ensure all ethical procedures are detailed comprehensively. Add code number.

### *Study Population and Sample Size:*

- Detail the sample collection process and how its representativeness was ensured.
- Justify the sample size and how it influences the generalisability of the results.
- Describe the demographic characteristics of the study populations and their relevance.

- Describe the inclusion and exclusion criteria for study participants.

## DISCUSSION

- Add the main findings of your study in the first paragraph. (first paragraph)
- Discuss the implications of the findings in terms of public health policies throughout the discussion.
- Explore possible explanations for the observed differences between rural and urban populations throughout the discussion.
- Suggest directions for future research and how these findings could be useful for future research in the last paragraph of the discussion.
- Conclude with a summary of the main findings and their significance in the field of immune genetics and public health.