

Review of: "A Systematic Review of Antibiotic Use in Humans in Nigeria and Its Potential Contribution to Rising Antimicrobial Resistance"

Ahmed S. Khairalla¹

¹ Beni Suef University

Potential competing interests: No potential competing interests to declare.

This study addresses a critically important topic: irrational antibiotic use in Nigeria. The authors have chosen a relevant research question and employed a systematic review methodology, which is appropriate for synthesizing existing evidence.

Here are some suggestions to improve the manuscript:

Introduction:

- Streamline information flow: While the introduction covers important points, the information could be presented more concisely. Consider re-organizing some sentences for better flow and readability.
- Strengthen link between global and local: While the introduction mentions Nigeria's role in the ECOWAS region, it could benefit from a stronger link between global AMR trends and their specific implications for Nigeria.

Methodology:

- More detail needed regarding the search strategy: While the search terms are listed, providing the complete search strategy for each database (including any limits used) would improve replicability.
- Rationale for limitations: Justify the choice to limit the search to articles published in English and from Nigeria. Explain how these limitations might affect the review's findings.
- Eligibility criteria: Clearly define the inclusion and exclusion criteria for study selection beyond the exclusion of non-Nigerian articles. For example, what specific study designs were included?
- Data Analysis: Specifying the software or methods used for data extraction and synthesis (beyond mentioning Word and Excel) would strengthen the rigor of the analysis.

Results:

- Separate findings and discussion: Consider presenting the results and their interpretation in separate sections for better clarity. Currently, the results are interspersed with interpretations and contextual information.
- Structure by themes: Organize the findings into clear thematic categories (e.g., antibiotic prescription practices, patient antibiotic use behaviors, factors influencing irrational use) to improve readability.

Discussion:

- Discussion of Limitations: Acknowledging any limitations of the review, such as publication bias or the reliance on studies published in English, would strengthen the analysis.
- Contextualization: While the study mentions the National Action Plan on AMR, further elaborating on how this research informed the plan would be beneficial.