

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

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Potential competing interests: No potential competing interests to declare.

The current original research aimed to systematically summarize the evidence on antibiotic use in Nigeria and its impact on antimicrobial resistance. The manuscript needs a substantial enhancement in its content and language. I have the following concerns about the manuscript.

## 1) Abstract

- The introductory sentence "The value of medicines is lost when these resources are not used rationally" is not eye-catching. Why did you use the word "medicine" instead of "antibiotics"? Please, edit this sentence to a more specific one.
- The phrase "Out of 12 developing countries" needs more clarification. Is it worldwide, African, or low- and middle-income countries?
- The abbreviation of antimicrobial resistance (AMR) should be mentioned on first appearance (Abstract, line 3).
- The phrase "antibiotic use in humans in Nigeria" could be changed to "human use of antibiotics in Nigeria".
- The word "medicine" should be replaced with "antibiotics" in the phrase "medicine use behavior". The word "behaviour" should be spelled correctly.
- The current work focused on the human use of antibiotics, so delete the word "animals" from the phrase "Irrational antibiotic use is widespread in humans and animals" and any other subsequent mention.

## 2) Introduction

- Why did the authors use "medicines (antibiotics)" twice? Does this serve any purpose? Please explain. My opinion is to use the specific word (antibiotics) directly.
- "Nigeria committed to establishing a national AMR surveillance system in 2016" How far was this system established, and are there any national antibiotic guidelines in Nigeria? These points should be clarified and added to the manuscript.

## 3) Materials & methods

- Why did the authors specify this period "January 2000 and January 2017"?
- From figure 2, the total searched articles were  $826+24=850$ , which doesn't match the 849 articles mentioned in the text; please revise.

## 4) Results

- Regarding antibiotic prescription, four articles (36%) reported ...etc. After this sentence, you mentioned three references only. Please revise & mention the four articles.
- "NHIS" This abbreviation should be mentioned in full text on its first appearance (page 5).
- Please add the reference for this sentence "With respect to underuse of antibiotics, 25.5% of house officers were not confident in prescribing antibiotics to patients."

## 5) Discussion

- The word "medicine" should be replaced with "antibiotics."
- Figure 4 is not cited within the text; please correct.
- Please add some details on the National Action Plan for AMR in Nigeria (2017) and the potential steps to overcome AMR.

## 6) Why did the authors use a subtitle "Other References" and didn't include it with the manuscript references?

