



**SDI Review Form 1.6**

Journal Name:	<a href="#">British Journal of Pharmaceutical Research</a>
Manuscript Number:	<b>Ms_BJPR_25268</b>
Title of the Manuscript:	<b>Self-medication with antibiotics: Empirical evidence from Nigerian rural population</b>
Type of the Article	

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> ( <i>if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i> )
<b>Compulsory</b> REVISION comments	<p>Interesting subject, the novelty is good. Indeed, there are some modifications to be taken into consideration concerning the presentation, method, results, and discussion</p> <p><b>1. Concerning introduction:</b> Please put the hypothesis of the study.</p> <p><b>2. Concerning method:</b> Please give information about:</p> <p>a. Data collection: please give information about:</p> <ul style="list-style-type: none"> <li>- Variables: explain how each variable was defined / computed/ recoded (please note that the questionnaire was not standardized).</li> <li>- How were the validity and reliability of the questionnaire tested?</li> <li>- Were the reasons for self-medication assessed according to a list or declared by the respondents?</li> <li>-</li> <li>- How was the ethnicity defined?</li> <li>- How were the respondents approached to collect data?</li> <li>- Non-inclusion criteria: <b>The author wrote:</b></li> </ul> <p>-93 Respondents under 18 and those with occupation related to health care were not included in this 94 study.: -191 ...There was statistically significant</p>	



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	<p>difference between self-medication practices of those 192 ....., healthcare and non-healthcare related professionals (<math>p=0.005</math>): <b>please explain</b></p> <p><b>3. Concerning results:</b></p> <p><b>a. How were the missing values approached</b></p> <p><b>b. Please correct the following results or explain clearly:</b></p> <p><b>i. Verify the prevalence of self-medication: (50.8%) or (59.9%)</b> The author wrote: ...A little more than half (50.8%) participant cited that they had used antibiotics through 137 self-medication to treat their illnesses. <b>And</b> ...153 (59.9%) of Nigerians in the study area had self-medicated themselves with antibiotics.</p> <p><b>ii. <math>p&gt;0.05</math> = statistically significance...?</b> The authors wrote: ..Self-medication 188 practices of participants <u>were significantly</u> affected by level of education (<math>p=0.03</math>), current 189 health status (<u><math>p=0.42</math></u>), gender (<u><math>p=0.7</math></u>), and duration of stay in the study area (<u><math>p=0.4</math></u>):</p> <p><b><math>p&gt;0.05</math>: no statistically</b> significance found between the Self-medication 188 practices of participants and the above variables (except education).</p> <p><b>iii. The authors wrote: In table 1: the % of males = 52.3%</b> The author put: ...128 Niger State, Nigeria. Out of 1150 participants, majority (61.1%) were males: <b>please explain!!!</b></p> <p><b>iv. The authors wrote:</b> ...Our finding is similar to that 264 of other studies where antibiotic usage is associated with gender: <b>But</b> : in table 3, concerning relationship between self-medication with antibiotics and gender, the <b>p value =0.53</b>.</p>	
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	<p>v. <b>Concerning Table 5.</b> The total of the percentage of columns must be equal to 100 for each variable: please explain (and correct), and put the frequency</p> <p><b>Same remark for 150 Sources of Information: the author wrote: ...</b>The major sources of antibiotic for self-medication without prescription 151 were drug stores (91.5%), chemist shops (85.7%) &amp; pharmacy (89.5%)</p> <p>vi. 128 ..... Median age of the 129 participants was 25 years (range 19-38). In table 1 the author put a category of age: 344 age &gt;38: please explain.</p> <p>vii. <b>Concerning Multivariate analysis:</b> * Concerning Table 3. Multivariate analysis of factors that may influence self-medication with antibiotics for treatment of ailments:</p> <ul style="list-style-type: none"> <li>- The p values were &lt;0.05; but the OR =1 is included in the 95% CI. Please explain. "According to theory: If the 95% confidence interval for the OR contains 1.0, the association is not significant at the 0.05 level".</li> <li>- Please put the results of: the intercept, and R2 and p-value of the model.</li> </ul> <p>** The results of multivariate analysis were not in line with the results of univariate analysis: please explain/ correct? or discuss the results.</p> <p>The authors wrote: ..Cough with 160 productive mucus (30.1%), Sore throat (23.7%), Un-remitting fever (20.7%), dysuria (10.6%) 161 skin sepsis (7.5%), and vaginal discharge (7.4%) were the most frequent indications for the use 162 of self-medicated antibiotics.</p> <p>....In this study, 270 self-medication was as a result of participants having cough with productive mucus (30.1%),..... 271 ..... These ailments were the most frequent indications for the use of self273 medicated antibiotics.</p>	
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	<p><b>But:</b></p> <p>In multivariate analysis: the OR were <math>&lt;1</math> : “An OR of less than 1 means that the patient with productive mucus, or..... was <i>less</i> likely to experience the <b>self-medication</b>”.</p> <p><b>4. Concerning Discussion:</b></p> <ul style="list-style-type: none"><li>- Concerning LIMITATIONS: please put the paragraph in the paragraph discussion: L 295.</li><li>- Not necessary to put a title for this paragraph (LIMITATIONS).</li><li>- Please discuss the method of data collection (declared self-medication vs. list)</li><li>- Discuss the novelty of this study: compare with others recent studies</li></ul> <p><b>5. Concerning References</b></p> <p>Please put references for the following paragraphs:</p> <p>219 ..... Self-medication would be acceptable.... 224.</p> <p>231....236</p>	
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<p><b>Minor</b> REVISION comments</p>	<p><b>1. Please put a table concerning the results of 133 <i>Past experiences with antibiotics self-Medication:</i></b> And the results concerning the paragraph 186.... 199</p> <p><b>2. Some sentences were duplicated, to be avoided, or please reformulate when appropriate :</b></p> <p>Use of antibiotics within the past 12 months 134 was reported by 945 (82.2%) clinic attendees without medical prescription.</p> <p>...When asked about the self-medicated use of antibiotics, 154 82.2% reported that they had used 155 antibiotics without medical prescription at least one time in the past 12 months.</p> <p>A little more than half (50.8%) participant cited that they had used antibiotics through 137 self-medication to treat their illnesses. And -This study demonstrated that an appreciably high percentage 153 (59.9%) of Nigerians in the study area had self-medicated themselves with antibiotics</p> <p>This study demonstrated that an appreciably high percentage (59.9%) of Nigerian rural dwellers had 243 self-medicated themselves with antibiotics, whereas the percentage of those who ever did so is even 244 higher (82.2%).</p> <p><b>3. Please replace:</b> 188 practices of participants were significantly affected by level of education</p>	
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	<p>(<math>p=0.003</math>) : by <math>p=0.03</math></p> <p><b>4. Concerning Table 2: please put the results of the CI as percentage.</b></p> <p><b>5. Concerning tables: 3 and 5 :</b> please put the frequencies (#) of responses</p> <p><b>6. Concerning 333 Education level:</b> Primary, Secondary and Tertiary... please explain what did you mean by tertiary, <b>or put # of years of education</b></p>	
<b>Optional/General</b> comments	<p><b>7.</b> Please avoid the use of the word Ironically ...189 ..... Ironically: please replace by: controversially.</p> <p><b>8.</b> Concerning 350 <b>Marital Status...</b>: Are there no widowed subjects?</p> <p><b>9. In table 2 put the same presentation of results: as percentage</b> "Confidence Interval: 0.20-0.27; Prevalence: 24.1"</p>	

Reviewer Details:

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