

Review Form 1.7

Journal Name:	South Asian Journal of Parasitology
Manuscript Number:	Ms_SAJP_117562
Title of the Manuscript:	MALARIA INFECTION AND MOLECULAR CHARACTERISATION OF PLASMODIUM SPECIES IN ADAMAWA STATE, NIGERIA.
Type of the Article	Original Research Article

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PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> The manuscript is important for the scientific community as it demonstrates the incidence of malaria in one of the Noth Eastern States in Nigeria. Nigeria leads other three countries in that contributes 50% of malaria prevalence in the world. The title of the article should be revised to capture: Factors influencing high P. falciparum prevalence infection in health facilities across selected LGAs in Adamawa State. There is only one species of P. falciparum documented and this underscores the molecular characterisation topic which depict that there are possibly several species of Plasmodium present in the state. The abstract mentioned only 2 LGAs, The location should be well captured to reflect how they are captured along LGAs or Geographical line. Results in the manuscript body were not captured along the LGA lines show cased in the abstract. The subsections of the manuscript are appropriate, however I have the following comments Introduction The rationale of the study being done in Adamawa should be strengthened. considering that malaria prevalence isn't new in the country. Authors should provide more reasons for justifying the introduction of vaccine or possibly providing current data to monitor trends or possible disruption in malaria prevalence data once the vaccine is introduced as an intervention. <ul style="list-style-type: none"> - All abbreviations and acronyms should be spelt fully at first mention. Methods <ul style="list-style-type: none"> - Provide appropriate references for the methods described - Describe the study design properly. What randomn sampling technique was used? - Describe the status of the hospital facilities Primary, Secondary / tertiary - What period were the samples collected? - Did the author station themselves at the health facilities or the laboratory scientists were trained to collect the samples each time a patient approaches the facility. - Exclusion criteria not properly described. - The procedures of sample collection should be clearly explained. - How was statewide % infection rate calculated? - Provide references for methodology e.g DNA Extraction, Nest PCR assays - Revise title of DNA extraction i.e Extraction of Plasmodium DNA from bood spot filter paper samples - Describe what is being compared under data analysis and let this speak to the objectives. - Describe how the 108 samples used for molecular assays selected from the 469 samples that tested positive for P. falciparum. Results Revise table 3 title to reflect the number and proportion of blood samples positive for P. falciparum across thee LGAs Please partition table 3 along the LGAs Either remove figure 2 or provide a strong spatial demonstration of the variation observed with the results along the zones. <ul style="list-style-type: none"> - If possible merge table 5 and 7, - Also mere - 6 and 8. Regardless of methods used, - Parasite density appeared in almost all the tables 3, 4, 7, 8 9 and 10. Author 	

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	<p>should correlate or clearly state how affects the age group, socio economic class , sex. If it provides the same outcome with infection rate, I will suggest that a correlation be done once and the PD data be discontinued in all the tables.</p> <p>Discussion Authors should start the discussion with data from the study and not from another study suggest deleting first few lines and start with , This study investigated..... The paragraphs are lengthy and should be more succinct capturing the result outcomes sequentially</p> <ul style="list-style-type: none"> - The implications of each results for malaria control should be discussed with current references. For example no references on the traditional dug well as a factor responsible for Anopheles abundance in Mubi. - The citing of reference 11 to support high infection rate in Mubi was not well justified, a higher biting rate or entomological inoculation rate captured in the citation would have been more relevant. - Again citation 20 was also used to support low malaria cases in Adamawa South without explaining the factors associated with this in the reference cited. <p>Author needs to tighten up a bit on the take home lesson in the discussion</p> <p>5.The manuscript is scientifically correct The references must be updated and written properly according to the journal specification.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Language is ok but requires some level of reconstruction.</p>	
<p>Optional/General comments</p>		

PART 2:

	Reviewer's comment	Author's comment (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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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