



SDI Review Form 1.6

Journal Name:	Asian Journal of Medicine and Health
Manuscript Number:	Ms_AJMAH_37371
Title of the Manuscript:	ABO BLOOD GROUPS AND MALARIA PARASITAEMIA USING DIFFERENT DIAGNOSTIC METHODS IN A REFERRAL HOSPITAL
Type of the Article	Original Research 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	▪ Title I think the title of the paper is inconsistent with methods, results and findings you presented ▪ Abstract ▪ Introduction ✓ Lines 39-42: You said <i>"Some factors such as G-6-P-Dehydrogenase activity levels, sickle cell trait, host immune response and ABO blood groups have been linked to individuals with less malaria susceptibility."</i> You have to reformulate this sentence because it does not specify how these factors are associated with low susceptibility to malaria. Besides, add others references having addressed the relationship between malaria and these abovementioned factors. ✓ Lines 42-46: You said <i>"ABO blood groups are physiological traits with different frequencies possessed by humans.....among people."</i> I do not think ABO blood groups are physiological traits but rather genetic traits. ✓ Lines 46-49: I do not understand your assumption. Indeed, how studying relation between ABO blood groups and malaria can help in fighting against malaria? Develop your arguments. ✓ Lines 42-46: You said <i>"This study was conducted to evaluate the relationship between ABO blood groups and malaria prevalence among randomly selected consenting study subjects in University of Port Harcourt Teaching Hospital (UPTH), Rivers State, Nigeria."</i> The aim you presented here is different from the one outlined in the title of the manuscript. Indeed, you seemed to use interchangeably the terms "parasitemia" and "prevalence". ✓ Lastly, the issue you want to address is not clear. Within the introduction, ones do not understand why you addressed this question in the context of malaria	The authors have implemented the necessary corrections in the title of the manuscript. The necessary correction has been included by the authors. The authors have changed "physiological" to "genetic". Studying genetic factors which confer protective or susceptibility in humans to malaria infection are aspects of epidemiological, public health and molecular studies in developing effective malaria control strategies e.g. the "Duffy gene" and <i>Plasmodium vivax</i> relationship. The study aim is not different from the title of the manuscript. The name of the referral hospital is University of Port Harcourt teaching Hospital (UPTH). The aim is expected to be more detailed than the summarised manuscript title.



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	control and/or elimination. Thus, you should deeply revise this section of the manuscript. ▪ Material and Methods ✓ Study area and population - Add one section regarding “Ethical statements” where use of informed consent forms and clearances shall be presented. Besides, you shall give the identification number of the clearance. - Specify the inclusion and exclusion criteria - Which method did you use to define the due minimum sample size to ascertain the value of your findings and interpretation? ✓ Data collection and analysis - Specify the quantity of blood you collected from each participant - You said : <i>“The degree of Plasmodium species density was graded as uncomplicated (1 – 999 parasites/μL) and severe (>1000 parasites/μL).”</i> I think your classification of malaria cases based on parasitemia is inconsistent with your study. Indeed, you used reference N°9 to say it but however this reference was used for pregnant women. Now, you said nothing about the demographic characteristics of your study population. - Specify which software was used to analyze data - How data were presented (i.e. percentage, mean, median)? ✓ You have to specify the geographical location and map of your study site ▪ Results ✓ Present the sociodemographic of the participants ✓ Tables 1 and 2: You have to do Chi-square analysis because blood group AB	Consent and ethical approval are stated in the “Data Collection and Analysis” section. Inclusion and exclusion criteria are stated in the “Data Collection and Analysis” section. Minimum sample size determination is stated in the “Data Collection and Analysis” section. The authors have implemented the necessary corrections. The degree of parasite density has been corrected by the authors. Demographic characteristics or variables were not stated in this manuscript due to the research design and outline as stated previously. The authors have implemented the necessary corrections. The authors have implemented the necessary corrections. The authors have implemented the necessary corrections and included the geographical location of the study area. Chi-square analysis was done and stated in the manuscript under each table.
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	was presented by one patient. ✓ Lines 76-79: You have to rewrite this interpretation because it is perfectly redundant with all information provided by Table 1. ✓ Lines 79-83: You have to rewrite this interpretation because it is perfectly redundant with all information provided by Table 1. ✓ You must present results on parasite density in terms of mean $\pm$ standard deviation (SD) globally and with regard to ABO blood groups. ▪ Discussion ✓ Lines 91-92: You said “Data obtained in this study showed that study subjects with blood groups AB and O had the least and highest population respectively.” You did not present this finding in the RESULTS section! ✓ Use data from mean parasitemia to properly discuss ▪ Conclusion This part is not consistent with the findings. Please rewrite it! ▪ Add sections regarding “Acknowledgments” and “Funding” Ethical Issue: Authors shall specify ID number of their ethical clearance.	The reviewer does not understand the information stated by the authors and the interpretation is certainly not “perfectly redundant”. The reviewer does not understand the information stated by the authors and the interpretation is certainly not “perfectly redundant”. Thick blood films were used in calculating parasite intensity and not thin blood films in this study with regards to ABO blood groups. Also, parasite densities “must not be presented in mean $\pm$ standard deviation” and there is no “single global standard” but different globally acceptable standards for parasite density representation. This information is captured in the “Number examined” column in tables 1 and 2 which are in the Results section. The conclusion advocated that despite the findings of this study, therapeutic malaria interventions should be equally directed at all individuals irrespective of their ABO blood groups because detailed molecular research is needed to fully understand the relationship between malaria parasites and ABO blood groups. Therefore, the conclusion is highly consistent with the findings.
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Minor REVISION comments	▪ Title ▪ Abstract ▪ Introduction ✓ Line 34: change “female <i>Anopheles</i>” to “female <i>Anopheles</i> mosquitoes” ✓ Lines 37-38: change “Plasmodium species infection” to “malaria infection” ✓ Line 46: change “people” to “populations” ✓ ▪ Material and Methods ✓ Line 62: change “Agglutination” to “agglutination” ✓ Line 66: change “Antisera” to “antisera” ✓ ▪ Results ✓ Tables 1 and 2: Put “χ^2” instead of “X²”	The authors appreciate the corrections made by the reviewer and all necessary corrections stated here have been fully implemented by the authors.
Optional/General comments		