



SDI Review Form 1.6

Journal Name:	International Journal of TROPICAL DISEASE & Health
Manuscript Number:	Ms_IJTDH_36787
Title of the Manuscript:	Short Term Outcome of Malaria at Rwanda Level 2 Hospital Bria in Central African Republic: A Cross-sectional study
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>)



SDI Review Form 1.6

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	Line 30: Keywords have to be changed. These could be: Malaria, Short term outcome, Rwanda level hospital Line 30: change “are transmitted” to “are mainly transmitted”. Indeed, malaria parasites can have others route of transmission such as mother-to-infant and blood routes. Lines 50-54: Update the figures presented within these sentences. Use the world malaria report of 2016. - 212 millions of malaria cases (range: 148-304 millions), 429 000 deaths (range: 235000-639000) in 2015 throughout the world. Africa WHO region accounted for 90% and 92% of malaria cases and deaths respectively. Lines 58-60: This description should be within the section ‘Study site’ of the manuscript in the Material and Methods. Introduction: This section has to be completed as the problematic does not appear clearly. Why this study has been conducted? In others words, Why did you interested in Short term outcome of malaria? What did this has so interesting? Materials and Methods: This section must be rewritten and structured with sections as follows: - Study site (Lines 58 to 60) - Study population (Who was included in the study? If not, for why reasons?) - Study design (What was the type of study? At what time this was conducted? How patients were recruited? What were the investigative methods for collecting information?) - Sample size (What methods was used to define the sample size? Lorentz's formula?) - Data collection (What type of information were documents? Was an interview used? If so, how many time it lasted?) - Ethical considerations (This section must be well detailed, Indeed informed consent forms were presented to each participant? Number of ethical clearance? Is there any difference in care between patients having accepted to participate and those who declined it?) - Statistical analysis (This section is well-presented enough but is incomplete. Indeed I see you used logistic regression as you computed Odds ratio. So, complete this section properly) Materials and Methods: Why parasite density has not been quantified? You have to express parasite density as number of parasites per μL of blood. Results: This section must be rewritten and structured with sections as follows:	Corrected



SDI Review Form 1.6

- Baseline characteristics of the participants (You have to present these in a table)
 - Clinical and treatment findings
 - Malaria parasites species, infection prevalence and intensity
 - Association between high parasitemia and variables (gender, signs and symptoms, etc.)
- Line 96:** You said “...and on fourth day analyze of blood smear was obtained”
- You have to specify this in the Material and Methods section!
- Lines 100-101:** You said “After the101 completion of treatment, clinical examination was obtained”
- You have to specify this in the Material and Methods section!
- Lines 102-103:** You said “A morbidity of three days counted for coartem, four days for artesunate and coartem and seven days for quinine was noted”
- You have to specify this in the Material and Methods section!
- Line 110:** You said “There was a strong association $p=0.013$ between presenting high parasitemia and nausea”
- So, what do you call high parasitemia? It not clearly specify in the Material and Methods section!
- Lines 108-113:** Present these results as table where OR, 95%CI and P-value from logistic regression analysis have to be appeared.
- You said you followed patients for 3 months. However, it is not clear on the frequency of this follow. Indeed, were patients followed daily, weekly or monthly?
 - **Table 1:**
 - ✓ Your table 1 must be properly captioned! For instance, Group 1a, Group 1b or df stand for what? I guess that Group1a and Group1n stand for symptoms at baseline and three months later respectively.
 - ✓ In Table 1, you outlined “**Fever1-Fever2**”. What was the threshold used in this study for defining fever? 37.5 °C, 37.6°C? However, I ask this question because I see in this table that the mean value of temperature was 36.417 °C for Fever 2.
 - ✓ The line “Blood smear” from this table is not properly presented. Indeed, You stated “Negative” and “Positive” and thereafter you outlined the difference was statistically significant ($P < 0.0001$). So, what test did you used to compare “Positive” and “Negative”?



SDI Review Form 1.6

	✓ Standardize the number of decimal of proportions - Table 2: This table must be deleted. You can present table from other studies in the discussion. - Lines 149-150: You said “<i>This is obviously due to the very small number of females deployed in <u>peacekeeping</u> missions150 compared to males</i>” I understand your study population consisted of peacekeeping people. So, you have to well structure your “Material and Methods” and properly described the study population. - Discussion: ✓ I think it is not sufficient to just compare your findings to other studies. So, you have to give mechanistic explanations of physiological, biological or biochemical order. This will improve the quality of your discussion. Please, give mechanistic explanations to all your findings on which you discussed because your discussion is very poor. Thus, this discussion has to be rewrite! ✓ Your references are not properly presented. Indeed, at line 147 you said “Barbara E”, “Muhammad I” for instance. So, you have to delete the initials of authors’ first names. ✓ Lines 145-150: What the interest in discussing male-to-female sex ratio or gender distribution? Please delete this!!!! ✓ Lines 151-154: What the interest in discussing age distribution? Please delete this!!!! ✓ Specify main limitations of the study. These have number! - Conclusion: This section has to be rewrite as the problematic of the study was not properly stated in Introduction. Indeed, you have to present main findings of the study and thereafter propose solutions or recommendations. - English language is poor! - Missing sections ▪ You have to add an “Acknowledgment section” and thank all patients who participated in this study and may be hospital staff which was probably implicated in laboratory analyses or other activities. You have to add a “Financial support section”	
--	---	--



SDI Review Form 1.6

	- The “ACKNOWLEDGMENT” and “FUNDING” sections are missing. You have to present these. - The “REFERENCES” section will have to revised and presented with respect to guidelines of the journal. Indeed, year of publication is misplaced within certain references. Besides, names of journals are in italics in certain references and not in others.	
--	--	--



SDI Review Form 1.6

Minor REVISION comments	Line 8: change “We wanted to determine” to “This study aimed at determining” Lines 13, 21, 22: We must not start a sentence with a figure. Please sentences start with a capital letter and end with a full stop. Line 15: change “10.3 : 1” to “10: 1”. Indeed, there is no 0.5 male for instance. Either 0 or 1 male. Line 17: change “were presente” to “were” Line 18: change “Plasmodium falciparum” to “<i>Plasmodium falciparum</i>”. This group of words should be in italics. Lines 23, 24: change “95%” to “95%CI” Line 43: change “ <i>P knowlest</i>” to “<i>P knowles</i>” Line 45: change “Plasmodium falciparum” to “<i>Plasmodium falciparum</i>”. This group of words should be in italics. Line 84: change “102” to “In total, 102 patients” Lines 87, 91, 94, 95, 96, 98: We must not start a sentence with a figure. Please sentences start with a capital letter and end with a full stop. Lines 97, 99 and 100: change “blood smear control” to “Control blood smear” Lines 114-115: You said “.....35.71% had malaria before completing thirty days, 37.71% got it between 30-45 days.” I do not understand this sentence. Please reformulate it! Lines 11-116: You said “.....<i>The mean days of recurrence were 38.92 days.</i>” Please add the standard deviation (SD) Line 117: You said “<i>There was significance proportions and mean regression of symptoms and signs</i>” I do not understand this sentence. Please reformulate it! Line 141: change “DISCUSSIONS” to “DISCUSSION” Are there ethical issues in this manuscript? YES, however authors shall specify ID number of their ethical clearance.	
Optional/General comments		