



SDI Review Form 1.6

Journal Name:	International Journal of TROPICAL DISEASE & Health
Manuscript Number:	Ms_IJTDH_44257
Title of the Manuscript:	The behavior of Jhum cultivators living in Chattogram Hill Tracts districts and its relation with malaria in Bangladesh
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:

(<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	Abstract Introduction 1. You said within the first paragraph: "<i>Malaria is caused.....of the genus Plasmodium</i>" Kindly reformulate this sentence as malaria infection does not only occur in red blood cells as other cells such as hepatocytes may be infected. 2. What does BRAC mean? 3. Rewrite the third paragraph and well explain how Jhum cultivation could increase the risk of malaria. This would justify why you interested in this group of Bangladesh population. 4. Present findings of previous studies that addressed the relations between behaviour and malaria risk Material and Methods 1. Which formula did you use to compute sample size (add reference)? 2. Specify what type of statistical analyses you used 3. The Figure 2 is not necessary (delete it) 4. Well specify in the "MATERIAL AND METHODS" section how you have documented information on malaria infection 5. How did you ascertain that health cases were malaria infection cases? 6. Where are data on treatment practices of this cultivators? Treatment and prevention behaviour are both important to influence malaria risk. Results 1. Generate the Table 1 again. The presentation of this table you done is not good-looking. 2. Compute percentages values of frequencies presented in Table 1. Properly caption this table as there are abbreviations such as NA, S.S.S and N.S.C 3. Add standard deviation value to the mean age value of the study population 4. The Figure 3 has to be deleted as this information is not consistent with the aim of	1.Introduction Yes, we have changed statement as follows: <i>Malaria is caused by invasion of hepatocytes and subsequent red blood cell infection by protozoan parasites of the genus Plasmodium</i> 2. BRAC is brand of organization, previously it's meaning "Bangladesh Rural Advancement Committee". 3. Yes, we have rewritten and added few sentences below as per reviewer's comment in P 04 L 04-08 (Line 04-08 in Page 04) under introduction section in revised manuscript (<i>italic format</i>). <i>Jhum cultivation is well correlated with malaria season. It starts with early days of rainy season and ends with harvesting period preferably, September to November. Jhum cultivators need to stay 5-7 or more days in Jhum site if the site is more than 3 Km away from their home. Most of the time, they do not have LLIN (Long Lasting Insecticide Nets) according to the people living at Jhum site.</i> 4. In fact the Article "The practice of <i>Jhum</i> Cultivation and Its Relationship to <i>Plasmodium falciparum</i> Infection in the Chittagong Hill Districts of Bangladesh" is not matched with our methodology and it could not be generalized as per author's comment. So we try to avoid to state the findings in our revised manuscript. Material and Method : <i>1.The formula used for sampling for this study was : $p(1-p)(z^2)/e^2$; where p is the probability of success and 1-p is the probability of not happening, z is the confidence interval and e is the margin of error</i> <i>2. We followed cluster random sampling in this study and the analysis was done STATA 12</i> <i>3. Yes, We have deleted the Figure 2</i> <i>4. We agreed with reviewer's comment. We have been added following sentence mostly in 3rd paragraph in material section in page 5 to more understanding to reader's point of view which is mentioned in revised manuscript (italic format). A fixed questionnaire had been used by trained enumerators to collect data from household. If a tribal community was different from the tribe of enumerator then local educated tribal people was appointed for translating the questionnaire. At first, a Jhum cultivator was selected from household for required answer. If a household had no Jhum cultivator then other occupation such as forest goer, cultivator or daily labourer had been chosen. If any participant agreed to have malaria disease in last one year then it was crosschecked with Rapid Diagnostic Testing (RDT) or laboratory register.</i> <i>5. The enumerators only documented malaria cases, no other health cases were raised by enumerators.</i> <i>6. We agreed with reviewer's comment. We have been added treatment profile of Jhum cultivators as below in 2nd paragraph in Page 10 under results section in revised manuscript (italic format)</i> <i>P. falciparum malaria was high (86.13%) among Jhum cultivators followed by mixed cases (8.03%) and then P. vivax (5.84%). Most of the treatment done by Shasthya Kormi / Health worker (69.34%) followed by Shasthya Shebika (12.41%) and then Govt. hospital (11.67%). Non –formal health care provider</i>



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	this study 5. Compute the percentages of retrospective malaria infection in Table 3 6. What is the interest of Figure 5? Besides, all is written in Bangladesh language instead of English one. 7. Give the value of regression correlation (R^2) you found in linear regression 8. Table 10 is not necessary as you have to present the main findings of the study within the CONCLUSION section Discussion This part has to be shortened as there are some findings that don't need to be discussed especially findings on ethnicity. Conclusion General remarks 1. English language can be improved in grammar and syntax. There are some language mistakes and structuration problems of sentences within all parts of the manuscript. Please do allow for proofread by an English-speaking scientist. 2. Specify the limits of this study as the fact information on malaria infection was obtained from the interview of each participant. This some of malaria cases putatively outlined by them could have be other health problems. 3. Better present your Tables (1, 2, 3, ect). You just have exported tables generated from STATA to your word document. 4. Some tables can be merged into big one especially all tables that present association between malaria infection and variables such as occupation, sleeping time from evening, bed net, etc. 5. Tables presenting results on logistic regression are not properly presented. Please, look for some articles recently published at the IJTDH so that of doing better presentation 6. Standardize the references you used accordance to instructions of the Journal	(Village Doctor) was also provided (6.57%) (Table 4) treatment to Jhum cultivators but 50% of them did not follow national treatment protocol and this is significant with education (P-value= 0.029). Results 1-2. We agreed to the reviewer's comment. We resigned the Table 1 with mentioned the percentage values of frequency. 3. Yes. Mean age of study people was 39.5 ± 14 years of age 4. Yes, we have deleted the Figure 3 of original manuscript. 5. We agreed with reviewer's comment. We redesigned the Table 3 (original manuscript) with mentioned the percentage values of frequency which is presented in Table 2 in revised manuscript (page 09) 6. Yes, we have deleted the Figure 5 of original manuscript. 7. Yes, we mentioned R^2 in liner regression in page -13 in revised manuscript which is $R^2 = 0.055$. 8. We resigned the Table 10 (Original manuscript) with quotation which is presented in 10 under (Table 7 in page 14 in revised manuscript). Discussion : We agreed with reviewer's comment and have been shorten the discussion section which is logical to result section. We have deleted 12– 20 line of page 15 (P15 L12-20) and 7- 8 line of page 18 (P 18 L 7-8) of original manuscript 1. Yes, English language has been improved in revised manuscript . 2. Thank you for reviewer's comment. We have been added following comment under limitation in page 18 in revised manuscript (<i>Italic format</i>) <i>In this study, we defined malaria cases by only getting information from participants, not testing RDT or laboratory examination.</i> 3. Yes, we have redesigned all tables and have been reduced number of tables in light of other reviewer's comment. 4. Yes, we agreed with reviewer's comment. We have merged Table 2,3, and 4 of original manuscript under Table no. 2 in revised manuscript. 5. Yes, we agreed reviewer's comment. We have redesigned the logistic regression under Table 3 and 6 in revised manuscript as per reviewer's point of view. 6. Reference section has been designed as per Journal requirement.
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Minor REVISION comments	Abstract Introduction Material and Methods Results Discussion Conclusion	
Optional/General comments		

PART 2:

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