SDI Review Form 1.6

Journal Name:	**International Journal of TROPICAL DISEASE & Health**
Manuscript Number:	**Ms_IJTDH_23591**
Title of the Manuscript:	**Anti-Trypanosomal effect of Neem seed oil in mice infected with Trypanosoma Brucei Brucei.**
Type of the Article	**Original Research Articles**

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

	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	**The research on the potentials of neem seed oil as a trypanocide was a very good topic considering the devastating effect of trypanosome parasites in both man and animals and the limited available drugs against the disease however the paper needs a compulsory revisions as follows;** **Abstract:** **The aim of the study was not well stated. The authors simply mentioned " the antitrypanosomal potential of neem seed oil was investigated in mice infected with trypanosoma brucei". The statement was vague. It did not show the situation that warranted the investigation. This must be addressed for clarity.** **Methodology:** **The methodology was not well stated. Authors should know that the methodology is the backbone of research and therefore should be clearly stated on scientific papers. As it were there was no description of what groups B-D stand for. The authors should clearly state the treatments given to each of the groups.** **The research did not observe scientific standard number of experimental animals' representative of an experimental group. A minimum of 6 animals per group is required for bigger animals such as dogs. Use of labouratory animals such as rats and mice should not be less than 15 animals per group. The use of only 5 rats per group was grossly inadequate and is not acceptable in the scientific world. In**	

	addition authors should state the age, sex and weight of rats used in the experiment. **Result:** **The haematological indices should be clearly listed showing their level of significance** **Conclusion: the first concluding statement on line 17-19 on the positive effect of neem seed oil on haematological indices was rather ambiguous. This was not shown in the result. The statement should either be removed or shown on the result.** **Note; I AM CONCEREND ON THE RELEVANCE OF THIS STUDY. WAS THERE A PILOT STUDY TO ASCERTAIN THE POTENTIAL OF NEEM SEED OIL AS AN ANTITRYPANOSOMAL AGENT OR DID THE AUTHORS SIMPLY EMBARKED ON WIDE GOOSE CHASE. AN INTIAL PILOT STUDY WOULD HAVE DISCOURAGED THE RESEARCH ABINITIO.** **Introduction: the author should replace berenil with diminazene aceturate and bracket (berenil®).** **Berenil is only a trade name and should not be used in place of the pharmacological name on a scientific paper. This should be corrected where it applies on the entire paper.** **Recast line 44-46, "this study----------** **Materials and method: NITR has been modified to NITOR: Nigerian institute of trypanosomosis and onchocerciasis research.** **Remove "on the" on line 51 and replace with "in". on same line add "state" in front of plateau.** **On line 64, cite the scientific reference at the end of description of the extraction technique.** **On line 66 add "laboratory" infront of animals** **State the strain of the rats used in the experiment on line 66.** **On line 74, replace the long grammar after the**	

	bracketed (control) with "uninfected/untreated group". **Rephrase line 75-76 to " while groups B,C,D and E were given intraperitoneal inoculation of 0.5mL of infected rat blood containing 1x 10^5 trypanosomes".** **Rephrase line 80 -81 to " the animals in group E were the uninfected/untreated (positive control).** **On line 102, change are to were** **On line 103, the statement increased parasitaemia should be put to show the level of increase and significance.** **On line 106, include the level of significance infront of the "difference".** **On line 113-115, recast the sentence and state the level of decrease in haematological value.** **On line 121, change the word dropped sharply to a more statistical language such as significantly decrease (p>0.05).** **On line 122, state the level of reduction.** **On line 125, replace berenil with diminazene aceturate.** **On line 130, replace the title of the table to "parasitaemia of mice with trypanosoma brucei infection and treatment at different days with neem seed oil and diminazene aceturate".** **Remove the grid lines on the table** **Present the tabular result to 2 decimal units.** **on line 134, replace the title with : Figure 1. Pack cell volume (PCV) (%)of mice with trypanosoma brucei infection and treatment at different days with neem seed oil and diminazene aceturate.** **ON LINE 139, replace the title with Figure 2. Haemoglobin conc (g/dl) of mice with trypanosoma brucei infection and treatment at different days with neem seed oil and diminazene aceturate.**	

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	On line 144, replace the title with: Figure 3.Red blood cell count (mm3) of mice with trypanosoma brucei infection and treatment at different days with neem seed oil and diminazene aceturate. **On line 158, replace is to was** **On line 169-171, delete statement as it was not statistically shown in the result.** **On line 184, delete based on mere speculation without statistical evidence**	
Minor REVISION comments		
Optional/General comments	The paper requires major revision, although is not an acceptable paper in the world of science due to non-conformation to scientific standard on minimum number of representative experimental animal per group.	

Reviewer Details:

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