



**SDI Review Form 1.6**

|                          |                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| Journal Name:            | <a href="#">International Journal of Biochemistry Research &amp; Review</a>                                       |
| Manuscript Number:       | 2014_IJBcRR_9962                                                                                                  |
| Title of the Manuscript: | Biochemical changes induced by natural infection of trypanosomosis in Burkinabese local breeds of small ruminants |
| 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**

|                                     | <b>Reviewer's comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Author's comment</b> (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)                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compulsory</b> REVISION comments | <p>PART 1: Review Comments</p> <p>The present study is an attempt to investigate the alterations of some clinicopathologic variables in trypanosome infected sheep and goats. The manuscript is written well with few type errors. Although it lacks novelty, the authors make great efforts for editing the manuscript. The authors have to add a statement of ethical issue as well as consent information from the owners. I hope my comments encourage the present work.</p> <p>Abstract:</p> <ol style="list-style-type: none"> <li>Please change "aimed to establish standard" to be "aimed at establishing standard"</li> <li>"This work allowed determining" is changed to be "This work helps determine"</li> <li>Line 18, add "," after healthy animals and before respectively to be " , respectively"</li> </ol> <p>Introduction section:</p> <p>Line 46: "to establish the standard values of clinical biochemical parameters" have to be changed to "to establish the standard values of clinicopathologic variables"</p> <p>Materials and Methods</p> <p>Line 62: Please add a section about the study population, clinical examinations, selection criteria (inclusion and exclusion criteria).</p> | <p>Changes are done</p> <p>Changes are done</p> <p>Changes are done</p> <p>Changes are done</p> <p>Blood samples were taken by the jugular vein puncture</p> <p>Changes are done</p> <p>Changes are done</p> <p>The paragraph is rewritten as: "Sixty-five Djallonke small ruminants breed were sampled for the biochemical parameters analysis, of which 20 sheep and 45 goats. The sample included 10 sheep and 9 goats infected with trypanosomosis. The average ages of the small ruminants were</p> |



SDI Review Form 1.6

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Did the infected animals showed clinical signs of Trypanosome? Or they were apparently healthy.<br/>If they were clinically ill, you have to mention the detailed clinical findings in the result section.<br/>Line 69: please, mention the site of taking blood samples (ear vein or jugular vein!)<br/>Line 71: “separated by centrifugation at 1500 g for 10 min and stored at -20°C till biochemical analyses were made” becomes “separated by centrifugation at 1500 g for 10 min and stored at -20°C for subsequent biochemical analyses.<br/>Line 72: “The blood sampled in EDTA coated vacutainer tubes were used for trypanosome detection” have to be changed to “EDTA blood samples were used for PCV determination and trypanosome detection “<br/>Lines 76 – 79: get me confused. What do you mean by “out of this figure”?<br/>Why did you select only 65 animals? This paragraph needs further rewriting. Please classify the examined animals into clinically health (n = !!) and infected (n = !!).<br/>Line 83: The blood samples collected in EDTA tubes were used for the determination of the packed cell volume (PCV) is deleted.<br/>Line 84: The buffy coat technique is replaced by BCT.... It was firstly mentioned in the abstract section.<br/>Was there any medical management and follow up of the diseased animals? If present, please add.<br/>Line 109: The authors are invited to make receiver operating curve analysis (ROC) to investigate the diagnostic efficiency of the selected biochemical variables. It may add value to the clinicians.</p> <p>Result section<br/>Please add the details clinical picture of the infected animals.</p> | <p>2.45±1.47 years and 2.84±1.5 years for sheep and goats respectively. The trypanosome-infected subjects were detected by microscopy (BCT).”</p> <p>We added: “All positive animals were treated with diminazene aceturate (Trypadim® MERIAL) at 3.5 mg/kg body weight.” There was no further follow up.</p> <p>The ROC analysis is not very information we concluded that the biochemical variable could not be used as diagnosis tool. However they do give some discrimination within the trypanosome-infected and negative animals. species identification was done on Giemsa-stained thin blood smears, this statement is mentioned in the “parasitological analysis”</p> <p>“a” is added</p> <p>Change is done</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**SDI Review Form 1.6**

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p>Line 118: on which basis, have the authors detected Trypanosome species!!</p> <p>Line 120: “Parasitological prevalence” becomes “The prevalence”</p> <p>Line 126: add “a” before significant</p> <p>Line 138: “Biochemical parameters for Burkinabese’ local breeds of small ruminants “is changed to be” Biochemical parameters for Burkinabese’ local breeds of small ruminants compared with the reference standards”</p> <p>Line 147: add “,” after like in sheep</p> <p>Line 165: the title of table 4 has to be changed to be” Mean values <math>\pm</math> SD of biochemical parameters in Trypanosome infected small ruminants compared with clinically healthy ones.</p> <p>In table 4: positive goats 8 or 9</p> <p>Discussion section:</p> <p>Line 180: add “,” after cattle</p> <p>Line 188: “However the clinical parameters” has to be changed to “However the biochemical variables”</p> <p>Line 202: In goats only, the serum calcium and phosphorus concentration in young animals was significantly different from adults’ group (<math>p &lt; 0.05</math>) have to be replaced by”In young goats, the serum calcium and phosphorus concentrations were significantly different from adults’ group (<math>p &lt; 0.05</math>).</p> <p>Line 249: “Similarly, the lower concentrations of calcium and magnesium in infected sheep”. Please look at table 4, there was a mistake of calcium interpretation.</p> <p>Line 260: delete clinical</p> | <p>“,” is added</p> <p>Change is made<br/>There were actually 9 positive goats, correction is made.</p> <p>“,” is added</p> <p>Change is made</p> <p>Change is made</p> <p>Actually we mean:” Similarly, the lower concentrations of calcium and magnesium in infected sheep and goats, <b>respectively</b>, than the healthy animal might be due to low feed consumption of infected animals”.</p> <p>“clinical” is deleted</p> |
| <b><u>Minor</u></b> REVISION comments   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b><u>Optional/General</u></b> comments | It could be detected by the journal electronic system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                  |