



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Asian Journal of Research in Medical and Pharmaceutical Sciences
Manuscript Number:	Ms_AJRIMPS_44564
Title of the Manuscript:	Assessment of The Levels of Serum Zinc and Copper Among Sudanese Patients with Sickle Cell Anemia in Khartoum State
Type of Article:	Original research paper

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>I have made the track changes again. I expect these changes to be effected in order to improve the quality of the paper.</p> <p>28 Provide information on the control</p> <p>31. Were the SCD patients in steady state or crisis?</p> <p>38 What type of blood samples were collected; fasting or random?</p> <p>39 From which part of the body was the blood sample taken?</p> <p>44 Include the country of origin of the AAS</p> <p>54 There is a serious omission; the correlation analyses for the controls.</p> <p>55 Are the authors suggesting there was no correlation analyses for the controls? The authors claim that there was correlation analysis. This should involve the cases and controls. However, the graphs show results for the cases. What about the controls? Without the controls, the report is incomplete.</p> <p>56 From literature of previous work, what are the levels of zinc and copper in sickle cell subjects and healthy controls? Some studies show there is inverse relation between copper and zinc. The discussion should clarify this.</p> <p>66 What is the implication of the inverse relation?</p> <p>67 Is there any comment on the difference in r for the two metals?</p> <p>Other issues</p> <p>a) There is no need to include the range of values of zinc and copper in Table 1. Check on the correct units for the Cu and Zinc. The abstracts gives the units as ng/L but the tables give mg/L</p>	<p>All track changes were corrected as per suggestions</p> <p>Required information about control were provided in study population in line 75 and in results area in line 104</p> <p>The sample were random and collected from vein of the arms (modifications were made) All patients were Sudanese are denoted from title(added in abstract and population part of study)</p> <p>The correlations among control were done and attached although to the best of our knowledge the correlations usually done among case group.</p> <p>Normal serum Cu: 0.7 - 1.4mg/l for Zn: 0.5 - 1.2 mg/l.</p> <p>This normal ranges are from the literature and in Sudanese population we have not established provided R.V, that's why we analyzed the metals in patients vs control (as case control study) so we think there is no need to put the R.V as we compare the results vs. contril results.</p> <p>Bot etal in 2015 denoted that "People with sickle cell disease suffer from micronutrients deficiency but preliminary research on dietary habits, show that food and nutrients intake by sickle cell patients meet or exceed recommendation and is not significantly different from healthy controls. This suggests that higher rates of nutrients deficiency may be due to increased needs of many nutrients in sickle cell patients" this paragraph was added to the discussion and the reference (16) were added</p> <p>The inclusion of minimum and maximum conc. Was one of the reviewers comments and requests.</p> <p>The units were checked and corrected in abstract as mg/l.</p>