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JournalName:	AsianHematologyResearchJournal
ManuscriptNumber:	Ms_AHRJ_125186
TitleoftheManuscript:	IncidenceofLeukaemiaandCoagulationProfileAssessmentinSickleCellPatientsatSickleCellFoundation,LagosUniversityTeachingHospital,Lagos
TypeoftheArticle	OriginalResearchArticle

PART1: ReviewComments

Compulsory REVISIONcomments	Reviewer'scomment	Author'sFeedback(Pleasecorrectthemanuscriptandhighlightthatpartinthemanuscript.Itismandatorythatauthorsshouldwritehis/herfeedbackhere)
<p>Pleasewriteafewsentencesregardingtheimportanceofthismanuscriptforthescientificcommunity.Whydo(ordislike)thismanuscript?Aminimumofsentencesmayberequiredforthispart.</p> <p style="text-align: right;">youlike 3-4</p>	<p>Themanuscriptis significanttothescientificcommunitybecauseit relatesleukemiaincidence tothe coagulationprofileinsicklecellpatients,whoareknowntobeariskfora varietyofhematological complications.TheinvestigationaddsvaluebyelaboratingoncoagulationabnormalitiesinSCDpatients andinvestigatingtheirpossiblelinkwithleukemia-apoorlyresearchedareawithinSCDresearch. However, theresultsofthe study,asit cameoutintermsoftheabsenceofleukemiawithinthesamplesize, shouldhavebeenmoreemphaticanddeeplyinterpreted.Thoughtherewerenonew casesofleukemia,the comprehensivenatureofthecoagulationprofilesupporta widerperspectiveonSCDmanagement. The significanceofthestudyiswell-mentioned;however,thiscanbemoreelaboratedonwhythereisa needto discussleukemiainSCD.WhytheincidenceofleukemiaisanimportantquestionforpatientswithSCD ? Whatistheknowledgegapthatalreadyexists?Thishastobetoldtojustifytheresearchbetter.</p>	
<p>Isthetitleofthearticlesuitable?(Ifnotpleasesuggestanalternativetitle)</p>	<p>Whilethetitledoesindeedshowthescopeof study,whichconsideredleukemiaincidenceandcoagulation profileamongssicklecellpatients,somere wordingcouldgoa longwayinaccuratelydescribingthefindings intermsofayes/noonleukemiaincidence. A suggestionforre wordingwouldbe:"AssessmentofCoagulationProfilesandInvestigationof Leukaemia IncidenceinSickleCellPatientsat LagosUniversityTeachingHospital."</p>	
<p>Istheabstractofthearticlecomprehensive?Doyou suggesttheaddition(ordelation)of somepointsinthis section?Pleasewriteyoursuggestionshere.</p>	<p>Theabstractisa goodsummary,butit doesnotgotothenoughdetailaboutthestatisticalmethodsused andthesignificanceofthefindings.It needsa clearerconclusionregardingtheabsenceofleukemiaand implicationsofthecoagulationprofiledifferences.Iwouldlikea quickmentionofthestatisticaltestsused withanadditional emphasis onclinicalrelevance. TheAbstract,althoughbrief,requiresanexplanationofthefindings,atleastregardingthenon-</p>	

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<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Background Information: The introduction, though good, has given an overview of SCD and its association with coagulation disorders; however, the association of SCD with leukemia is inadequately elaborated. More literature on the reported incidence of leukemia in patients with SCD and its clinical implications could here by strengthen this section.</p> <p>Study Design: The case-control study design is appropriate for testing differences between SCD patients and healthy controls. Nonetheless, more information concerning the selection criteria of the control group would make the methodology even more transparent. Were the controls matched for age or sex? Inclusion and exclusion criteria are well-carried out, except for the confirmation of patients with steady-state SCD, which is summarized; the references should be included to understand this aspect better.</p> <p>Sample size and statistical power: While 80 participants might be adequate, no evidence in the paper showed how sample size was calculated or if it is powerful enough to detect differences in leukemia incidence. The methodology description would be stronger if the calculation of sample size had been added.</p> <p>Data collection and laboratory methods: The coagulation profiles assessment and blood count are very well described. However, more information on the reliability and validity of laboratory techniques applied is needed, which should include the precision of assays. Were the tests in duplicate? Also, details on the statistical analysis - what statistical tests were employed for the various variables - should be described earlier in the methodology section and not left to later in the results.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>The results are well-presented; relevant comparisons between groups are made. However, they could be better structured to highlight the key findings. For example, the incidence of leukemia, which bears major relevance to this study, is mentioned under the discussion instead of being at the forefront of the results section.</p> <p>Tables: Sometimes the data is better presented as a table, and sometimes column and/or row labels are required for full clarity. The p-values are useful but not as informative as CIs, which would provide an estimate of the precision of the results.</p>	

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	<p>-Coagulation Profile: There has been a decent comparison in SCD patients versus controls, although more context is required regarding the clinical significance of such findings. For instance, how would the high white blood cell count and the prolonged prothrombin times affect the outcomes in patients?</p> <p>Discussion:</p> <p>- Interpretation of Results: Discussion: Although the proper comparison of the finding in this study with previous literature, especially on the aspects of haematological differences in SCD patients and controls, may be done, much attention should go to the absence of leukemia cases found among the cohorts in this study. What may be the possible reasons for that? May it be due to the fact that sample size is small to demonstrate such rare conditions like leukaemia?</p> <p>Clinical Implications: Discussion has to be more interpretative to elaborate on the clinical implication of these findings, more so coagulation abnormalities in patients with SCD. How is the elevation of prothrombin times and D-dimer levels to be interpreted by the clinician in such a population? Any recommendations for the management?</p> <p>Limitations: The article does state small sample size and limited follow-up, but this section needs more elaboration. More precisely, the study does not control for possible confounders, for instance, the use of hydroxyurea in SCD patients, which might affect blood counts and coagulation profiles.</p> <p>Future Research: The article only mentions the areas of future research, but those areas are not developed. This section should have a little explanation of what kind of studies can be done in order to give more light on this relationship that exists between leukemia and SCD, or what kind of clinical relevance the differences in coagulation profile may have.</p> <p>Figures, such as the box plot comparing the coagulation profile, were present and useful; however, these could be shown with greater clarity. The legends need to contain more detail - for example, what each variable represents within the context of the study. These figures require high resolution and better design for publication.</p> <p>These results point to one logical conclusion that might be elaborated a bit more. Preferably, the clinical implications of these findings could be made clearer - for instance, how the coagulation profiles can help guide treatment decisions in SCD patients - at the end. In addition, it would be preferable if the finding - or lack of it - with regard to leukemia were represented in a way proximal to the conclusion.</p> <p>The result of coagulation profile in patients with SCD is interesting, but the justification, statistical analysis, and presentation of results need further improvement if this article is to be publish-worthy. Revisions will make this article a</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Sufficient and up-to-date enough. To enhance the background and discussion sections of the manuscript, at least more resources with regard to the possible association of SCD and leukemia incidence, coagulation abnormalities in various populations suffering from SCD, are required.</p>	
<p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the articles suitable for scholarly communications?</p>	<p>Quality of the language: Generally good, but there are places, especially in the results and discussion sections, where clarity improvements are needed. A thorough proofread would be advisable in order to ensure that the manuscript meets scholarly communication standards.</p>	
<p><u>Optional/General</u> comments</p>	<p>Manuscript is scientifically strong, but needs revisions in abstract, results presentation, and discussion to highlight the importance of the findings and clarity. The structure is generally appropriate, with the need for more focus on leukemia incidence in the "Results" section, given the stated importance in the objectives of this study. The methodology section requires more detail on statistical analyses and power calculations, particularly how sample size was determined.</p>	

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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>	

Reviewer Details:

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