

Review Form 1.7

Journal Name:	Asian Journal of Cardiology Research
Manuscript Number:	Ms_AJCR_97479
Title of the Manuscript:	Left ventricular diastolic function in sickle cell anaemia: clinical and haemodynamic correlates
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:

(<https://www.journalajcr.com/index.php/AJCR/editorial-policy>)

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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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. This paper describes left ventricular dysfunction detected by echocardiography in patients with sickle cell anemia. It is timely and adds something new to the information in this field. 2. The title is appropriate 3. The abstract is comprehensive except that authors should add clinical interpretation of the echo findings 4. Subsections and structure are fine 5. The data are scientifically sound 6. The references need updating as I mentioned above <p>This is a timely and interesting paper, but there are several issues that need to be attended by the authors.</p> <p>In the abstract, the authors state, "----higher trans-mitral E- wave and A- wave velocities, reduced E/A ratio, as well as prolonged deceleration time of the E- wave and isovolumic relaxation time(IVRT)". For those who are not familiar with cardiac echo terminology, please give interpretations of these findings, such as "indicating stiffness of the ventricular wall, ---etc."</p> <p>Also in the abstract, define "diastolic dysfunction" meaning what criteria are used.</p> <p>Needs subjects detail ; please state sickle cell genotypes. In one area, authors state that they are sickle cell anemia patients. This imply that all patients are homozygous Hb SS patients. Is it correct?</p> <p>How were the patients selected? Were they consecutively selected, or what type of eligibility criteria were used for selection?</p> <p>In the method section, systemic resistance index formula unit should be dynes-sec/cm⁵, delete m². Also delete the minus sign that appeared in front of 5</p> <p>Were there any patients on disease modifying agents such as hydroxyurea/ or other medications? If there were, how many? And how long were they on the medication?</p> <p>Were there any patients who were on chronic transfusion program? These two factors are important since either or both of them modify disease severity.</p> <p>In the results section, authors describe control patients with hematocrit between 30 and 35. The patients in this control group are anemic. Describe what type of anemia these control subjects had.</p> <p>Table 1, the number of control patients, 30+31(female)=61??</p> <p>Table 4, p value, what are th comparison groups? Severe vs mild?</p> <p>The most recent reference authors cited was published in 2015. More recent data should be cited, examples;</p> <ol style="list-style-type: none"> 1. Omar Niss, Robert Fleck, Fowe Makue, et al. Association between diffuse myocardial 	

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	<p>fibrosis and diastolic dysfunction in sickle cell anemia. <i>Blood</i>. 2017;130(2):205-213</p> <p>2. Victor R. Gordeuk, Oswaldo L. Castro, Roberto F. Machado; Pathophysiology and treatment of pulmonary hypertension in sickle cell disease. <i>Blood</i> 2016; 127 (7): 820–828</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	The quality of language is acceptable	
<p>Optional/General comments</p>	The article is well written, and the data presented are valuable and interesting. I believe that the paper is worth a publication. However, one of the weaknesses is no mention of disease modifying agents use by the subjects, since they impact profoundly the results. This omission should be corrected. Absence of patient selection method is a problem, and eligibility and exclusion criteria need to be clarified. There have been more recent publications on the same issue, and thus authors should update their references. Otherwise there are a few minor revisions needed.	

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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