

Review Form 1.7

Journal Name:	Asian Hematology Research Journal
Manuscript Number:	Ms_AHRJ_95332
Title of the Manuscript:	ASSESSMENT OF ESSENTIAL TRACE ELEMENTS AND TOXIC METAL CONTAMINANTS OF BANKED BLOOD DESIGNATED FOR TRANSFUSION IN IGBINEDION UNIVERSITY TEACHING HOSPITAL, OKADA, NIGERIA
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.journalahri.com/index.php/AHRJ/editorial-policy>)

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> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ol style="list-style-type: none"> 1. Yes. It gives a powerful impact on our knowledge. Donor blood held for transfusion has safe cadmium and lead levels. Blood donors had somewhat more essential metals than the standard range. Thus, donor blood transfused at the Igbinedion university teaching hospital in Okada had metal contents within the estimated acceptable range. 2. Yes. 3. Yes. 4. Yes. 5. Yes. 6. Some of them needs to be updated and added. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	Need improvement.	
<p>Optional/General comments</p>	<p>The abstract should be more concisely written, such as: Patients with anemia and excessive bleeding require blood transfusions to survive intensive care. Blood banking provides recipients with safe and sufficient blood without endangering donors. Environmental and occupational exposures to dangerous heavy metals may have happened in these donors. Heavy metals are regularly encountered by Africans. Even in rapidly industrializing nations like Nigeria, monitoring of this exposure is inadequate, despite the neurotoxicity of several of these metals. 20L of blood sample was vacuumed into the quartz spray chamber to estimate lead, cadmium, zinc, and copper concentrations in 86 blood donors belonging to the O, A, B, and AB blood groups (Cadmium, Lead, Zinc and Copper). Lead, cadmium, zinc, and copper levels in donor blood were below permitted standards. At p = 0.05, SPSS 20 was used to analyze the data. This research discovered safe levels of cadmium and lead in donor blood stored for transfusion. Blood donors showed a slight increase in essential metals compared to the reference range. Thus, donor blood used for transfusions at the Igbinedion university teaching hospital in Okada contained metal concentrations within the predicted safe limit.</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>	

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