

## 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><b>Compulsory</b> 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>	<p>1- Yes, its new topic. 2- Yes 3- Yes 4- Author should write in this way: a-The World Health Organization (WHO) has established a target of obtaining 100% voluntary non-remunerated donation by 2020 as a means of achieving this goal, and voluntary non-remunerated blood donation is promoted. Nigeria, a member of WHO, has not made much success in attracting voluntary donors. Only 5% of the donor blood used in Nigeria is donated voluntarily; the majority of donor blood is still obtained from family replacements and paid donors. b-However, these donors can have been exposed to a range of toxins, including hazardous heavy metals through the environment and their jobs (6). Africans frequently experience environmental heavy metal exposure. Even in nations like Nigeria, which are rapidly industrialising, monitoring of this exposure is poor despite the fact that many of these metals are proven neurotoxicants. A crucial initial step in estimating the public health burden of metal exposure and directing its eradication is an assessment of the impact and potential causes of metal exposure. c- Study design this cross-sectional study, individuals of different blood groups attend the Igbinedion University Teaching Hospital in Okada, Edo State, as willing donors. After meeting the prerequisites for donation, the people gave their permission to take part. 86 people in all were recruited for this study. d- table 2 demonstrates the comparison of measured toxic metals and essential metals level in the donors' various blood groups. Data show that group A, B, AB, and O donors' serum lead concentrations do not differ significantly (P&gt;0.05). Additionally, there were no differences between group A, B, AB, and O donors in the serum concentrations of cadmium, zinc, and copper (P&gt;0.05). e-Table 3 compares the levels of toxic metals and essential metals in male and female donors. The mean blood contents of lead (P&gt;0.05), cadmium (P&gt;0.05), zinc (P&gt;0.05), and copper (P&gt;0.05) in male donors were not significantly different from those in female donors, though. 6-The references are old - update at least two references to be 2022-2021 or 2020.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	English editing	
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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