

Review Form 1.6

Journal Name:	Asian Journal of Cardiology Research
Manuscript Number:	Ms_AJCR_82759
Title of the Manuscript:	Assessment of the Histopathological Effects of Potash on the Hearts of Adult Wistar Rats
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>)

Review Form 1.6

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)
<u>Compulsory</u> REVISION comments	<p>ABSTRACT</p> <p>In Abstract, a part was mentioned that should be put into methods and materials and should not be placed here.</p> <p>This part is:</p> <p>Animals were grouped into six (6) groups (group A, B, C, D and E) with five (5) rats each and the last group which is LD₅₀ with 50 rats. Group A served as the control while groups B, C, D and E were the treatment groups. Groups B, C, D and E rats were given 0.2g/ml, 0.4g/ml, 0.6g/ml and 0.8g/ml of Potash respectively with the last group been the LD₅₀ group. The substance administration was given daily for 21 days (3 weeks) and the weights of both the test animal and control was monitored before and after administration of potash. After the administration, the rats were put under light chloroform and the hearts harvested for histological processing.</p> <p>2. Material and methods / experimental details / methodology</p> <p>Please rewrite material and methods in good and with some details way using the following comments:</p> <p>-Delete / experimental details / methodology in the title of Material and methods</p> <p>-Delete this paragraph</p> <p>The preliminary studies, animal acclimatization, ingredients procurement (potash preparation, actual animal experiment and evaluation of results lasted for a period of five months. However, the actual administration of potash to the test animals lasted for three (3) weeks.</p> <p>-Write the weight of the rats in control and treatment or the average weight.</p> <p>- Why you used this concentration or what is the basis for your choice this concentrations0.2g/ml, 0.4g/ml, 0.6g/ml and 0.8g/ml of Potash write it in material and methods part.</p> <p>- The substance administration was given daily for 21 days (3 weeks) why you choice 3 weeks write it in material and methods part.</p> <p>- The rats were put under light chloroform (mention the concentration) and the hearts harvested for histological processing.</p> <p>- transport the following paragraph from this position:</p> <p>The animals were fed with standard rodent food and water <i>ad libitum</i> under strict hygienic conditions. They were divided into six (6) groups. LD₅₀ and other five groups with 5 rats</p>	All the necessary corrections were done as indicated

	<p>each and allowed to acclimatize for 7days at room temperature (25±⁰C), relative humidity (45 to 55%) and 12hours dark/light cycle. The animals were weighed on the first day of the acclimatization period and fed with feed and water given as desired. They were housed in well ventilated labeled wooden cages at the site of the experiment. The cages were designed to secure the animals properly especially from wild animals/insects and cleaned daily.{</p> <p>To be after the second paragraph</p> <p>In this study, a total of seventy-five (75) adult Albino Wistar rats of comparable sizes were used for this study. They were divided into six groups with five (5) rats in group A, B, C, D and E and LD₅₀ with 50 rats. Group A served as the control and the rats were given distilled water. Groups B, C, D and E rats were given 0.2g/ml, 0.4g/ml, 0.6g/ml and 0.8g/ml of Potash</p> <p>-2.1 Animal Grouping (This part 2.1. is repeated and mentioned before in previous part of material and methods delete the following part: 2.1 Animal Grouping</p> <p>The experimental animals were separated into five groups (A – E). Each group contained five (5) rats each (n =5) using 5 big cages to house them.</p> <p>Group A served as the control, while groups B - E served as the test groups</p> <p>Group B – E received graded doses of Potash prepared accordingly and weighed to determine the quantity to be administered.</p> <p>Group A received only the normal feed (grower’s mash) and water with no administration of Potash.</p> <p>- What about LD50 why you do not mentioned manuscript and why you determined it???????</p> <p>Results:</p> <p>In Table 1:</p> <p>put the following keys: under the table</p> <p>WBPA: Weight Before Potash Administration,</p> <p>WAPA: Weight After Potash Administration</p> <p>n: Number of sample; P – Value (p<0.05): Significant; S: Significant</p> <p>DISCUSSION</p> <p>Delete the following paragraph:</p> <p>Potash has several uses; it is used in cooking as a food tenderizer especially in pulse [2], to curdle milk, in the tanning industries and in the preparation and enhancement of flavor of local beverages and snuffs. However, it has been reported from recent scientific report that there is an increase use of geological mineral substances in human and animal food. And</p>	
--	---	--

Review Form 1.6

	<p>the renewed interest by Nigerian government in solid mineral exploration may possibly explain the reason for the use of naturally occurring inorganic salts for diverse purposes [2].</p> <p>The heart is a hollow <u>muscular</u> organ that pumps <u>blood</u> throughout the <u>blood vessels</u> to various parts of the body by repeated, rhythmic contractions. It is found in all <u>animals</u> with a <u>circulatory system</u>, which includes the <u>vertebrates</u>. The vertebrate heart is principally composed of <u>cardiac muscle</u> and <u>connective tissue</u>. Cardiac muscle is an involuntary striated muscle tissue specific to the heart and is responsible for the heart's ability to pump blood [8].</p> <p>-In this part use some review agree or disagree with your results</p>	
Minor REVISION comments	If you can make data in table 3 as figure	Okay
Optional/General comments		

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>	