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Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_31625
Title of the Manuscript:	NATURAL RADIOACTIVITY AND RADIOLOGICAL RISK ESTIMATION OF DRINKING WATER FROM OKPOSI AND UBURU SALT LAKE AREA, EBONYI STATE, NIGERIA
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, provided the manuscript is scientifically robust and technically sound.

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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)
<u>Compulsory</u> REVISION comments	 79-85. Figures 1a and 1b are not clear enough; they do not reveal the study areas quickly. 95-97. There is contradiction in the sampling, line 95 indicates that the water samples collected were 2 litters, nevertheless line 97 indicates that large volumes of water 20 litters is required. It is necessary to clarify the volume used and the procedure, how this was done. The technique gamma ray spectrometry is not the right technique to determine radioactivity in water samples. There is a special method to determine this, called "liquid scintillation". That is the reason why most of the calculated values they got from the water samples were below the limits detection, this restrict them to do the proper calculations of adequate doses. Statistically the results are not valid because the numbers of samples were small. Of the 12 samples in uranium, 5 samples were below the limit detection, for thorium 4 samples were below the limits detection. 	
Minor REVISION comments	 Aim (abstract) Delete the word activity 39. Specify World Health Organization (WHO) 46. Delete the word activity 47-48. Delete the paragraph "and high radiation damage such as kidney atrophy, leukaemia as well as cancer of the bladder kidney and lungs" 54-55. Remove the comma from the references: Nguyen et al.[11], Wallner et al. [12], Elena Botezatu et al.[13]. 62. Change the word caner by cancer 	

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	70 Concerts the word and from figure 4.	
	79 . Separate the word <u>and</u> from figure <u>1a</u>	
	94 . Change concentrated trioxonitrate (v) acid (HNO ₃), only for nitric acid (HNO ₃)	
	95-96 Delete "and also to prevent microbial activities"	
	102. Change ²³⁸ U, ²³² Th and their daughter progenies and ⁴⁰ K	
	102. Change ^{232Th} for ²³² Th	
	125 . Change ²²⁶ Ra for ²²⁴ Ra corresponding to ²³² Th	
	160. Specify the International commission on radiological protection (ICRP)	
	175. Indicate reference used for the effective dose in infants, children and adults.	
Optional/General comments		

Reviewer Details:

Name:	María de Lourdes Villalba
Department, University & Country	Departamento de Investigación y Posgrado, Autonomous University of Chihuahua, Mexico