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Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJMMR_34239
Title of the Manuscript:	RADIATION RISK ASSESSMENT FROM BACKGROUND RADIATION EXPOSURES IN SELECTED HOSPITALS IN SOUTH – SOUTH NIGERIA
Type of the 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	Under the Abstract, line 27: Remove "therefore" and the rest should read " There is ...hospitals to ensure regular monitoring of radiation level to prevent background radiation from getting out of acceptable level". Line 37 – 38: Insert space in-between "ofinjuries" and "practiceshas". Omission of space between sentences occurs in many places in the manuscript. Line 38: Insert space in between "practiceshas" and replace "beginning" in line 39 with "discovery" Material and Method: The University of Uyo Teaching hospital (UUTH) was mentioned in the abstract and other places in the manuscript as one of the study centres but under the materials and method, Federal Medical Centre, FMC, was mentioned instead of UUTH. The Author should clarify this. Line 78: Remove "Wikipedia.org" Line 80: specify what the "scanning machine" is Line 81: Remove "is" before "located" Line 99: in addition to stating the temp range of the measuring device, state also its energy range and its range of exposure rate. Also, give the specific background radiation measured, since the device has	Thanks for your corrections and suggestions. Those corrections has been effected. There was a mixed up. The university of Uyo and Federal medical center FMC Umuahia were monitored but FMC was not part of this work. It has been corrected. Our aim here is to monitor the background radiation levels of the hospitals. Therefore , it is the gamma radiation that was measured.



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	the capacity to detect alpha, beta, gamma, etc. Line 102 should read "... positions where ..." Line 105: should read "... radiation meters and average was calculated and recorded." Line 107: Replace "external dose rate" with "exposure dose rate" Line 120: insert the reference, where the estimation was made. Line 118: Explain what the dose conversion factor 0.75 Sv/Gy was used to convert. Line 124: Insert space in-between "meanindoor" and "and2.09.. " in line 134; "meanindoor" in line 178 fig7; "withICRP" in line 180 fig 8. Line 185: Replace "are represented" with "have been presented" Line 187: Insert space in-between "2the" and 0.010 mR/hr" in line 188. Line 191 & 197: replace "exposure dose rate" with "exposure rate" Line 214 – 216: Was the measurements taken during x-ray imaging procedure. This should not be since the focus of the study was on background radiation and not on radiation leakage through the shielding facility. Line 232 – 234: The results of background radiation (indoor and outdoor) obtained from this study ranged from 0.018 mSv/yr – 0.60 mSv/yr. These values are	
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	below the ICRP recommended dose limit for the public, 1 mSv/yr. Hence, the background radiation level at these hospitals are within the accepted level. Therefore, the conclusion should be that measures should be put in place at these hospitals, through regular workplace monitoring and quality control of radiation facilities, to ensure that acceptable limit is not exceeded.	
<u>Minor</u> REVISION comments	Under the title on the first page: Insert space in between "Background" and "Radiation" Also, the study area mentioned in the title page is "South-South" but in line 69, "South-South and South-East" were mentioned. The Author should clarify this. Throughout the manuscript, the Author should ensure the space is inserted between measured/quoted values and their units (e.g. 25 mR/h). Also, between the last sentence and the reference number in parenthesis (e.g. book [2].)	
<u>Optional/General</u> comments	The study is original and well carried out.	