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Metal Residues and Health Risk Concern in the Consumption of Chickens Proximal to Dumpsites in Nigeria

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The objectives of this study are to evaluate the probable health risk to humans via consumption of some of chicken organ parts. Trace metals in the chicken organs were digested and extracted using standard analytical methods. The results of the average daily intake (ADD) revealed high metal content in the consumption of the lung [Adults (Cu- 109.15 mg/kg) and children (Cu-200.28 mg/kg)] and the brain [Adult (Zn-167.25 mg/kg) and children (306.88 mg/kg)]. The hazard quotient (HQ) and hazard index (HI) of the trace metals in the chicken organ parts were all > 1 except for Ni in the heart, blood, lung, kidney and brain. The results of the estimated daily intake (EDI) showed that Ni had a higher percentage in the heart, blood and lungs. The findings of the health risk impact (HRI) revealed high values of Cu (23.39 and 19.86 mg/kg) in the lungs and muscle respectively.

Biography:

Dr. Anani O. A has completed his PhD at the age of 37 years from University of Benin, Benin City, Nigeria. He is currently a lecturer and admission officer of Faculty of Science Edo University, Iyamho. He has over 7 publications that have been cited over 5 times and his publication H-index is 1.0 in google scholar and 2.84 in research gate. He has been serving as a reviewer in reputed Journal.