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Determination of heavy metals in fish samples Ibi and Wukari local government areas of Taraba state, in Nigeria

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The fish samples (fresh and local smoked fish) from Ibi and Wukari local government areas of Taraba state in Nigeria were analyzed to determine the level of heavy metals (Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb and Zn). All the fish samples (fresh and local smoked fish) analyzed contain heavy metals. The results ranged from 0.027-0.076, 0.033-0.058, 0.035-0.092, 1.010-1.955, 2.101-4.892, 0.666-0.922, 0.044-0.085, 0.054-0.095 and 1.987-2.971 mg/g for Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb and Zn in local smoked fish while in the fresh fish, the concentration of same heavy metals ranged from 0.011-0.042, 0.032-0.048, 0.011-0.056, 0.133-0.788, 1.675-2.571, 0.078-0.765, 0.045-0.092, 0.011-0.028 and 1.098-1.997 mg/g respectively. There were significant difference ($P < 0.05$) between the heavy metals in local smoked fish and fresh fish from the same study areas. The mean concentration of Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, and Zn of local smoked fish were higher than the mean concentration of fresh fish. All the parameters examined in the fish samples have values that are below or within the maximum permissible limit of WHO, FAO and EC Standard.

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