LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW* KARYA ILMIAH : JURNAL INTERNASIONAL

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	d. Pene		: Afican Scholary Science Communication Tru				
			Artikel (Jika ada) : https://doi.org/10.18697/ajfand.				
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Judul Karya Ilmiah/Artikel	:	Physicochemical Changes And Sensory Quality Of Liquid Smoked Milkfish Nuggets					
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African Journal Of Food, Agriculture, Nutrition And Development

Volume 21 No. 7 August 2021

ISSN: 1684 5374

AJFAND Editorial Board

ISSN 1684 5374

PUBLISHED BY TRUST

AFRICAN SCHOLARLY SCIENCE

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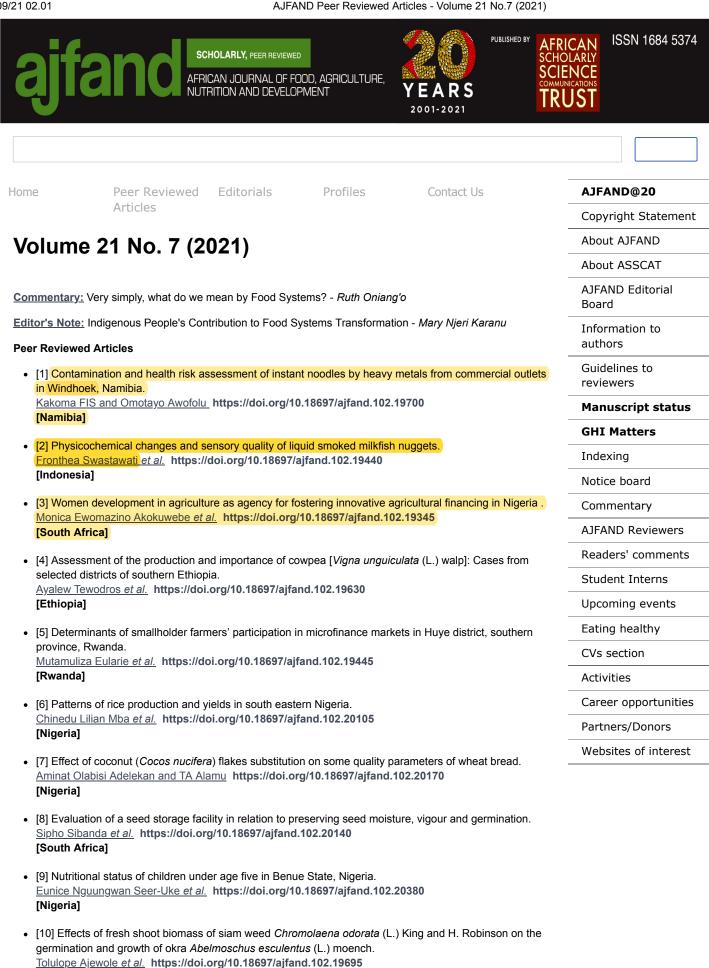
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Afr. J. Food Agric. Nutr. Dev. 2021; 21(6): 18245-18260

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CONTAMINATION AND HEALTH RISK ASSESSMENT OF INSTANT NOODLES BY HEAVY METALS FROM COMMERCIAL OUTLETS IN WINDHOEK, NAMIBIA

Kakoma FIS¹ and OR Awofolu^{1*}



Omotayo Awofolu

*Corresponding author email: <u>oawofolu@nust.na</u>

¹Department of Health Sciences, Namibia University of Science and Technology Private Bag 13388, Windhoek, Namibia





ABSTRACT

With growing international trade, food safety has emerged as an important global human health issue. One of the pathways by which extraneous contaminants such as toxic heavy metals access the human system is through food ingestion. At above permissible levels, these metals pose serious danger to human health. Cultivated farm produce on contaminated soil has the propensity to uptake and accumulate such contaminants. In this study, the prevalence and possible human health risks of toxic heavy metals such as Zinc, Cadmium, Copper, Lead, and Arsenic (Zn, Cd, Cu, Pb and As) in selected Instant Noodle Brands (INBs) from commercial outlets in Windhoek, Namibia was carried out. Different brands of instant noodle samples were purchased from four different commercial outlets for four periods with one-month interval. A total of 48 samples were collected and analysed for the level of heavy metals using mineral acid digestion method. Quantification of analysed metals in digested samples was done using Inductive Coupled Plasma -Optical Emission Spectrometer (ICP-OES). The mean concentration of heavy metals in the digested instant noodle samples across the sampling periods ranged from 13.1 - 17.9 mg/kg with overall mean concentration of 14.6mg/kg; 0.05 - 0.5mg/kg with overall mean level of 0.15 mg/kg; 1.5 - 2.4 mg/kg with overall mean concentration of 1.9 mg/kg; ND - 1.3 mg/kg with overall mean level of 0.4 mg/kg and 2.3 - 3.8 mg/kg with overall mean concentration of 1.4 mg/kg for Zn, Cd, Cu, Pb and As, respectively. A strong correlation (r = 0.99) was obtained between Zn and Cd levels but average correlation (r = 0.56) between Cd and Cu as well as between Cu and As (r = 0.55). Target Hazard Quotient (THQ) values greater than 1 (one) was obtained for Pb (1.7) and As (7.3). In addition, Carcinogenic Risk Index (CRI) values of 0.71 and 0.02 were also obtained for Pb and As, respectively. Of great concerns are the potential development of non-carcinogenic health effects and carcinogenic health risks with respect to these two toxic metals. Both metals are of no physiological benefits to the human system and very toxic at low levels. Hence, proper quality assurance protocol and monitoring of the level of toxic heavy metals in instant noodles products is recommended.

Key words: Noodles, Heavy metals, Health Risk, Toxicity, Food Safety, Contaminants, Food, Namibia





Afr. J. Food Agric. Nutr. Dev. 2021; 21(6): 18279-18299

https://doi.org/10.18697/ajfand.102.19345

WOMEN DEVELOPMENT IN AGRICULTURE AS AGENCY FOR FOSTERING INNOVATIVE AGRICULTURAL FINANCING IN NIGERIA

Amusan L¹, Akokuwebe ME²* and G Odularu³



Monica Ewomazino Akokuwebe

*Corresponding author email: monica.akokuwebe@gmail.com

¹Department of Political Studies and International Relations & Department of International Relations, North West University, Mafikeng, South Africa ORCID: http://orcid.org/0000-0001-6403-5008

²Department of Demography and Population Studies, University of the Witwatersrand, Johannesburg, South Africa ORCID: <u>http://orcid.org/0000-0001-8945-345X</u>

³Sustainable Development Research Manager, Socio-Economic Research and Applications LLC (SERAP), 1720 Wisconsin Ave NW, Washington DC, 20007, US. Department of Economics and Business, Bay Atlantic University, 1510 H St., N.W. Washington Dc, 20005, US ORCID: http://orcid.org/0000-0002-3723-1377





AGRICULTURE, Volume 21 No. 7 SCIENCE AGRICULTURE, AUGUST 2021 ISSN 1684 5374

ABSTRACT

The significant contribution of women in agricultural development cannot be overemphasised. Women farmers are commonly side-lined and their efforts under-valued in conventional agricultural and economic evaluations despite the substantial impact they have made in the sector. Globally, women's contributions to the agricultural sector have been appraised as the world's major producers and organisers of food crops where half of the world's foods have been grown by them. In Africa, Nigeria included, women dominate and play major roles in producing subsistence crops and livestock. Their contribution to agriculture is estimated to be 65% in Nigeria. However, their contributions are undermined largely because women are often economically marginalised. Though women are food producers for most of the households in rural areas, their marginalisation has been historical. Factors hindering women from accessing agricultural financing include patriarchy, an unfavourable land tenure system that deprives women of access to collateral security in accessing bank loans and the vagueness of women's limited self-agency. Anchored in patriarchal and liberal feminism theories, this study examines how Nigerian women are marginalised in selected spheres of agrarian livelihoods in the south-eastern parts of Nigeria. South-East Nigerian women farmers participate fully in all key stages of farming activities such as production, processing and marketing of food crops. The Igbo men cultivate mainly cash crops. Similarly, in the Northern parts of Nigeria, women are only allowed to participate in certain stages of cash crop growing but they are fully allowed to engage in subsistence farming as they are relegated to home front activities. Patriarchy limits women's access and control over land resources in all forms. Patriarchal and liberal feminism denoted that the actions and ideas of male farmers dominant over those of women has prevented female farmers the autonomy and freedom to become rational beings. This paper recommends mainstreaming of gender in the design, implementation and monitoring of agricultural policies and programmes for inclusive financing for food security and sustainable development.

Key words: Agriculture, development, innovative financing, gender, livelihood, marginalised, Nigeria, patriarchy, women, tradition

