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The prevalence of onchocerciasis and efficiency of Ivermectin drug in Idogun community, Ondo State, Nigeria

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The study was undertaken in Idogun, an endemic community in Ose Local Government Area, Ondo State, to determine the prevalence of onchocerciasis and the efficiency of ivermectin drug. Structured questionnaire was administered during personal interview and focus group discussion to obtain useful epidemiological information, while skin snip test was employed to determine the prevalence of the disease among the three hundred and eighty-four respondents not below 10 years of age that were randomly selected for the study and the efficiency of the drug was tested for 6 and 12 month post treatments. The results showed that out of the 384 respondents examined for *Onchocerca volvulus* in the community, 108 (28.1%) were infected with the parasite. The prevalence of the disease was significantly different among the age groups and genders ($P < 0.05$) with the highest prevalence of the disease (41%) observed in age group 51-60 years while the lowest prevalence (0%) was observed in age group 81-90 years. Similarly, the prevalence of infection was significantly higher in male (29.4%) than the female (26.5%). The total efficiency of the drug at 6 months and 12 months post treatments are; 12.1% and 38.8% respectively. The highest efficiency of the drug at 6 months (33.5%) and 12 month post treatments (87.5%) were observed among age groups 31-40 years and 21-30 years respectively, while the lowest efficiency of the drug at 6 months (0) and 12 months post treatments (16.5) were observed at age group 71-80 years. The results suggest the need for continue distribution of the drug in the community in order to completely eradicate the disease.

Biography

Afolabi Olajide Joseph has completed his MSc from Ahmadu Bello University Zaria, Nigeria. He is a Lecturer 1 in the Department of Biology, Federal University of Technology Akure, Nigeria. He has published more than 15 papers in reputed journals.

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