J Vector Borne Dis 49, June 2012, pp. 101-104

Epidemiological evaluation of onchocerciasis along Ogun River System, southwest Nigeria

S.O. Sam-Wobo¹ M.A. Adeleke² O.A. Jayeola³, A.O. Adeyi¹, A.S. Oluwole¹, M. Ikenga⁴, A. Lawniye⁴, 1. Gazama⁴, A. KagniS, T.O. Kosoko⁶, O. Agbeyangi¹, S. Bankole¹, L. Toe, C.P. Mafiana⁸ & L. Yameogo⁹

Department. of Biological Sciences, University of Agricultlære, Abeokuta; 2Department of Biological Sciences, Osun State University, Osogbo; 3Department of Forestry and Wildlife Management, University of Agriculture, Abeokuta; 4National Institute of Trypanosomiasis Research, Kaduna, Nigeria; 5APOC Temporary Advise/; Kara, Togo; 6University of Agriculture Abeokuta Health Centre, Nigeria; 7Multidisease Surveillance Cemre, WHO, Ouagadougou, Burkina Faso; 8Executive Secretary Office. National University Commission, Ahuja, Nigeria; 9African Programme for Onchocerciasis Control, Ouagadougou. Burkina Faso

ABSTRACT

Background & objective: Epidemiological slLJdies were carried out to assess the prevalence and community microfilarial load (CMFL) of onchocerciasis after repeated annual U'eatment with ivermectin along Ogun river System, southwest Nigeria.

Method: Skin snips were taken from consented participants in 11 selected communities along the River system, ... The microfilarial load of the community was estimated.

Results: The prevalence and CMFL varied significantly in the communities (p < 0.05). The prevalence of onchocerciasis ranged from 19, I to 45.6%, while the CMFL ranged from 0.11 to 1.03 microfilariae per skin snip. The CMFL recorded was <5 microfilariae per skin snip, i.e. recognized by WHO as threshold value in certifying the communities to be free of onchocerciasis as public health problem, thus, signifying the possibility of onchocerciasis elimination in the study area,

Conclusion: Efforts should therefore be intensified to achieve improved ivermectin coverage and compliance in annual ivermectin treatment in order to completely eliminate onchocerciasis as a public health problem in the studied communities.

Key words Ivermectin; microfilariae load; Nigeria; onchocerciasis; prevalence