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Studies of human T-lymphotrophic virus 1 among patients with pulmonary tuberculosis in Dutse Jigawa state, North-Western Nigeria

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Human T-lymphotrophic virus type 1 (HTLV-1) is a causative agent of tropic spastic paraparesis and adult T-Cell leukaemia. Information regarding the involvement of HTLV-1 in presentation of subclinical immune suppression that may results in increased rate of HIV and TB infections has long been documented. 60 confirmed pulmonary TB subjects consisting of 41 males and 19 females were recruited in this study. Tuberculosis was confirmed by collecting their sputum samples and analyzed using GeneXpert. The immune-globulins G and M (IgG and IgM) were both assayed by Enzyme Linked Immunosorbent Assay (ELISA). The prevalence of HTLV-1 IgG antibodies among TB subjects was 6.6%, while that of IgM was 1.6%. There was no significant association between HTLV-1 and tuberculosis ($P>0.05$). Accordingly, sexually active group has the highest prevalence of 2.3% when compared to single and widow categories, age group 15-24 has the highest percentage of 3.3% for HTLV-1 IgG antibodies.

Biography

Usman Aliyu Dutsinma completed his PhD in Microbiology (Medical) in 2013 from Bayero University, Kano Nigeria at the age of 35 years. He was the Deputy Dean, Faculty of science and Faculty of Life Sciences 2015 -2016 and 2016 – 2017 respectively. He published more than 20 papers in reputable Journals and presently he is the Editor-in-Chief, UMYU Journal of Microbiology Research (www.ujmr.umyu.edu.ng). Usman got the opportunity to interact with Professor Robert Gallo, the first Scientist to discover HIV/AIDS and the Founder of Global Virus Network during a third (3rd) short course at the Institute of Human Virology, School of Medicine, University of Maryland USA in October, 2016.

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