

Prevalence and risk factors associated with *Entamoeba histolytica*/*dispar*/*moshkovskii* infection among selected local government in zone C senatorial district Yobe, Nigeria

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This study was carried out to determine the incidence and risk factors associated with infection of *E. histolytica*/*E. dispar*/*moshkovskii* among three local government, Nguru, Machina and Jajimaji local government in Zone C senatorial district of Yobe. The infection is still prevalent in northern Yobe especially among rural communities. Currently, there is less information on prevalence of this infection among these towns. A total of 500 faecal samples were examined by formalin-ether sedimentation and trichrome staining techniques. Of which, 18.5% (38/205) of Nguru, 14.8% (21/155) of Machina, and 30.71% (43/140) of Jajimaji were positive for *E. histolytica*/*E. dispar*/*moshkovskii* respectively. The prevalence of this infection showed an age-dependency relationship, with higher rates observed among those aged above 13 years in all local government studied. Multivariate analysis confirmed that not washing hands after playing with soils or gardening and presence of other family members infected with *E. histolytica*/*E. dispar* were significant risk factors of infection among all local government. However, eating with hands, the consumption of raw vegetables, and close contact with domestic animals were identified as significant risk factors in Jajimaji. The findings highlighted that *E. histolytica*/*E. dispar* parasites are still prevalent in Yobe state. Further studies using molecular approaches to distinguish the morphologically identical species of pathogenic, *E. histolytica* from the non-pathogenic, *E. dispar* are needed. The establishment of such survey will be useful for the public health authorities in the planning and implementation of specific prevention and control strategies of this infection in three local government of zone C senatorial district of Yobe.

Biography

Adamu Galadima Dagona of 31 years completed First Degree in Zoology from University of Maiduguri and obtained M.Sc. degree from prestigious Ahmadu Bello University, Zaria in the year 2012. Presently he is a lecturer in the Department of Biological Sciences, Yobe state University and has published more than 3 papers and presented many papers in many Conferences and workshops and is a Member in Nigerian Society for Microbiology.

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