

Ecological studies on *Bulinus truncatus* snail the intermediate host of *Schistosoma Haematobium*, in White Nile State, Sudan

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Abstract

This study was conducted in four villages namely: Jadeed, Alandraba, Um Gaar and EL Shetabe in the White Nile State Sudan to determine the ecological factors; water vegetations, physical and chemical properties of the water in Snails habitat. *Bulinus truncatus* which act as intermediate host for *S. haematobium* were collected from water bodies adjacent to study villages where the residents were suspected to swim and humans get in contact with water for various purposes. Water samples from the stretches were collected and then measured for parameters that are indicative to quality of water and sustaining survival of snail and would confirm even further if the contact between humans and water had taken place.

The parameters measured included water conductivity, pH, dissolved oxygen, calcium and magnesium content. Also single water sample from each contact site were collected for microbiological tests. The result revealed that the *B. truncatus* showed that these animals were fewer and free of infection and their sites of collection were dense with different plant species making them suitable to harbor snails. Moreover, the results of microbial tests showed that there was a higher bacterial contamination. Also physical and chemical analysis of water sample of contact sites revealed that there were significant differences ($P < 0.05$) in water pH, calcium and magnesium content between sites of study villages and these were discussed in relation to factors suitable for the intermediate hosts and thus for the transmission of the *S. haematobium* disease.

Biography:

Mohammed Hussein is a public health specialist, has completed his M.sc from Khartoum University, he is a Sudanese Red Crescent Member, he is a lecturer at Medical Institute and he is assistant professors at Karary University.

Speaker Publications:

1. "Impact of mass treatment and health education on the prevalence of *Schistosoma haematobium* among school children in four villages, White Nile State, Sudan"

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