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Effect of communal piped water supply on pattern o transmission of schistosomiasis haematobia in an en Kenya

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Abstract: An attempt was made to examine the long-term impact communal piped water supply on pattern of water use and transmiss haematobia in an endemic area of Kenya. In the study area, Mtsang program based on repeated selective mass-chemotherapy had been from 1987 to 1993. The pre-treatment overall prevalence and intenwere 59.2% and 10.9 eggs/10 ml of urine (Muhoho et al., 1997). E program, the prevalence was kept at a low range of 20 to 40% (MI the end of the program, in 1994, gravity-fed water supply was prov Although the water facilities were damaged by flooding in 1998, ne gravity-fed water supply facilities consisting of 7 standpipes were ir follow-up survey done in 1999 revealed reduced prevalence and int 23.0% and 1.2 eggs/10 ml of urine (unpublished data). The present in 2006, 6 years after the last mass-chemotherapy. Urine examinati prevalence and intensity of infection had return to 52.2% and 7.4 eg same level as the pre-treatment level. The results of our study demo long-term, the gravity-fed water supply facilities had little impact on and intensity of infection in this village. However, analysis of the spa observation of human water contact at the river and a questionnaire on the possible impact of water supply on human water contact. Th years old) with easy access to the standpipes showed a lower preva infection, while the relationship was not clear in other age groups. The result of the questionnaire indicated that the long distance from

was the major factor limiting the use of the communal tap water. Mc used piped water as the main source of water lived within 800 m of and villagers who used river water exclusively lived beyond that dis water-related activities at the communal water facilities also indicate lived near standpipes used the piped water more frequently.

The frequency of total visits to river water sites did not differ between near and far from the standpipe. However, water contact in the form risk behavior, was observed exclusively among children who lived f standpipes, although the number of observations was small.

The present study demonstrated that the water facilities had little eff population but might have a beneficial effect on some villagers given standpipes.

Key words: <u>control of schistosomiasis haematobia</u>, <u>safe water sur</u> <u>contact</u>, <u>spatial analysis</u>, <u>Kenya</u>

[PDF (365K)] [References]

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