

Epidemiology and risk factors for *Schistosoma* spp. infection in adult population of Chókwè district, Mozambique

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Introduction

- Mozambique is one of the countries with the highest prevalence of schistosomiasis in the world.
- Data about schistosomiasis in the adult population of Mozambique is very limited.
- Adults with chronic schistosomiasis can act as a reservoir for continued infection transmission.

Objective

- ✓ Determine schistosomiasis prevalence and risk factors in the adult population of Chókwè district, Mozambique.

Methods

- Cross-sectional study conducted between April and October 2018 on the Chókwè Health Research and Training Center.
- Two-stage cluster sampling (30x30) = 570 random households.
- Included all individuals aged 15 years or older living the household.
- Collection of data regarding sociodemographic variables, signs and symptoms of schistosomiasis and water related activities.
- Infection was determined by urine (filtration) and stool (Kato-Katz tick smears) *Schistosoma* spp. microscopic egg identification and/or DNA detection.

Results

- 1033 participants with a median age of 34 (IQR 32) years old.
- 71.7% were females and 4.5% reported hematuria in the last month.
- *Schistosoma haematobium* prevalence of 11.3% (95% CI 9.5%-13.4%).
- *Schistosoma mansoni* prevalence of 5.7% (95% CI 4.3%-7.5%).
- Risk factors for *S. haematobium* infection:
 - Younger individuals (p=0.011, aOR=0.977, 95% CI 0.959-0.995).
 - Students (p=0.025, aOR=0.389, 95% CI 0.170-0.890).
 - Reported hematuria (p=0.002, aOR=4.267, 95% CI 1.718-10.596).
 - Blood in urine dipstick (p<0.001, aOR 3.193, 95% CI 1.834-5.560).
- Risk factors for *S. mansoni* infection:
 - Use water from rivers, streams or lakes for other activities (p=0.017, aOR 2.452, 95% CI 1.172-5.130).

Conclusion

- ✓ The current study provides valuable insights into the epidemiology and risk factors for schistosomiasis in the adult population of Chókwè district and contributes to the understanding of the burden of the disease in Mozambique.



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