

Surveillance for Soil-Transmitted Helminths in High-Risk County, Mississippi, USA

Appendix

Additional Methods

Inclusion criteria included that informed consent be given by parent/guardian, children be aged 2 to 18 years of age at enrollment, and be resident of Rankin county. Informed consent was obtained from parent or guardian and for all participants, and assent was obtained for those aged 9 or older, consistent with University of Mississippi Medical Center Institutional Review Board requirements. Parents/guardians were asked to complete a questionnaire (demographics, clinical and travel history, and information on potential risk factors for soil-transmitted helminth (STH) infections and to collect three stool samples on non-consecutive days from each participating child. For sample size, calculations were based on an estimate of 25% prevalence, with a 95% confidence interval and a difference worth detecting $\pm 5\%$ ($d = 0.05$), resulting in a required sample size of $\cong 246$ subjects. Since there are not recent reliable hookworm prevalence data for Rankin county, these numbers were assumed based on MSDH reported parasitic disease statistics from 1980–1984 (Bruce Brackin, pers. comm.).

Appendix Table. Demographics of 271 school-aged children resident in Rankin county, Mississippi enrolled in this study who also contributed at least one stool sample*

| Characteristic | Answer | Number (Responses) | Percent (%) |
|----------------|----------------------------------|--------------------|-------------|
| Sex | Male | 153 | 56.5 |
| | Female | 118 | 43.5 |
| | Total | 271 | 100 |
| Ethnicity | Hispanic | 7 | 2.6 |
| | Not Hispanic | 260 | 95.9 |
| | Prefer not to answer | 0 | 0.0 |
| | Unknown | 1 | 0.4 |
| Race | Total* | 271 | 100 |
| | White | 216 | 79.7 |
| | Black/ African American | 41 | 15.1 |
| | Asian | 2 | 0.7 |
| | American Indian/ Alaska Native | 0 | 0.0 |
| | Native Hawaiian/Pacific Islander | 0 | 0.0 |
| | White/ Black/ African American | 8 | 3.0 |

| Characteristic | Answer | Number (Responses) | Percent (%) |
|----------------|--|--------------------|-------------|
| | White/Asian/American Indian/Alaska Native | 2 | 0.7 |
| | White/American Indian/Alaska Native | 1 | 0.4 |
| | White/ American Indian/ Native Hawaiian Pacific Islander | 1 | 0.4 |
| | Unknown | 0 | 0.0 |
| | Prefer not to answer | 0 | 0.0 |
| | Total | 271 | 100.0 |

*Six subjects submitted stools but did not complete surveys and are therefore not included in this table. Median age in years (IQR) 8 (5.0-11.5).