

Additional file 1. Statistically significant associations between parasites species from multivariate regression analysis

Reference categories: sex: female, age group: 0-4 years, and wealth quintile: most poor

Parasite	Association	Adjusted OR (95% CI)
Plasmodium		
<i>P. falciparum</i> ^{8,12}	Age group (10-18 years)	0.28 (0.16, 0.51)
	Age group (19-39 years)	0.11 (0.06, 0.19)
	Age group (≥40 years)	0.07 (0.04, 0.13)
	<i>S. mansoni</i>	2.03 (1.29, 3.19)
<i>P. malariae</i> ^{1,5,10}	Age group (10-18 years)	0.08 (0.01, 0.67)
	Age group (19-39 years)	0.13 (0.03, 0.63)
	Age group (≥40 years)	0.11 (0.01, 0.93)
Schistosoma		
<i>S. haematobium</i> ¹³	Age group (5-9 years)	6.32 (2.96, 13.51)
	Age group (10-18 years)	9.76 (4.53, 21.04)
	<i>S. mansoni</i>	0.11 (0.03, 0.34)
<i>S. mansoni</i> ¹⁰	Wealth quintile (least poor)	0.21 (0.09, 0.48)
	Age group (5-9 years)	16.10 (2.04, 127.20)
	Age group (10-18 years)	46.69 (6.03, 361.68)
	Age group (19-39 years)	52.42 (6.91, 397.95)
	Age group (≥40 years)	42.07 (5.41, 327.38)
	Sex (male)	1.70 (1.08, 2.66)
	Hookworm	2.78 (1.76, 4.41)
	<i>E. coli</i>	0.33 (0.19, 0.57)
	<i>S. haematobium</i>	0.12 (0.04, 0.41)
	<i>B. hominis</i>	1.66 (1.04, 2.67)
	<i>P. falciparum</i>	2.14 (1.30, 3.50)
Soil-transmitted helminths		
Hookworm ⁹	Wealth quintile (poor)	0.34 (0.19, 0.61)
	Age group (5-9 years)	4.26 (2.08, 8.75)
	Age group (10-18 years)	7.05 (3.43, 14.49)
	Age group (19-39 years)	7.53 (3.78, 14.99)
	Age group (≥40 years)	6.48 (3.15, 13.33)
	Sex (male)	1.92 (1.39, 2.64)
	<i>S. mansoni</i>	2.78 (1.79, 4.31)
	<i>B. hominis</i>	0.70 (0.49, 0.99)
Intestinal protozoa		
<i>E. histolytica/E. dispar</i> ^{12,14}	<i>E. coli</i>	2.86 (1.71, 4.77)
	<i>E. nana</i>	1.84 (1.09, 3.08)
<i>E. coli</i>	<i>E. nana</i>	4.68 (3.17, 6.89)
	<i>I. bütschlii</i>	5.93 (3.41, 10.30)
	<i>E. histolytica/E. dispar</i>	3.19 (1.84, 5.55)
	<i>S. mansoni</i>	0.31 (0.18, 0.55)
	Age group (19-39 years)	3.63 (2.02, 6.52)
	Age group (≥40 years)	3.73 (2.00, 6.95)
	<i>C. mesnili</i>	3.51 (1.30, 9.48)
	Wealth quintile (very poor)	2.05 (1.16, 3.61)
	Wealth quintile (least poor)	1.91 (1.13, 3.24)
<i>E. nana</i> ^{1,5,11,15}	<i>E. coli</i>	4.88 (3.36, 7.09)
	<i>B. hominis</i>	2.21 (1.50, 3.23)
	<i>E. histolytica/E. dispar</i>	1.90 (1.12, 3.24)
	Age group (5-9 years)	4.83 (1.97, 11.81)
	Age group (10-18 years)	5.66 (2.26, 14.16)
	Age group (19-39 years)	7.52 (3.09, 18.29)
	Age group (≥40 years)	5.56 (2.19, 14.10)
	<i>I. bütschlii</i> ^{5,10,14}	6.56 (3.93, 10.95)
	<i>B. hominis</i>	2.03 (1.26, 3.28)

<i>G. intestinalis</i> ^{2,5,12}	Age group (19-39 years)	0.20 (0.08, 0.47)
	Age group (≥ 40 years)	0.21 (0.08, 0.58)
	<i>I. bütschlii</i>	0.38 (0.14, 0.99)
	<i>S. mansoni</i>	0.36 (0.14, 0.95)
<i>C. mesnili</i> ^{8,13,14}	<i>E. coli</i>	4.63 (1.79, 11.96)
<i>B. hominis</i> ^{5,10}	<i>E. nana</i>	2.00 (1.42, 2.83)
	<i>I. bütschlii</i>	2.06 (1.29, 3.29)
	<i>S. mansoni</i>	1.86 (1.21, 2.86)
	<i>P. falciparum</i>	1.39 (1.00, 1.92)

* After adjusting for: 1= *P. falciparum*, 2=*P. malariae*, 3=*S. haematobium*, 4=*S. mansoni*, 5=Hookworm, 6=*E. histolytica*/*E. dispar*, 7=*E. coli*, 8=*E. nana*, 9=*I. bütschlii*, 10=*G. intestinalis*, 11=*C. mesnili*, 12=*B. hominis*, 13=sex, 14=age group, 15=wealth quintile