**Supplementary file 1a:** **Helminth infections among schoolchildren enrolled in an asthma case-control study between 2015-17 in Uganda (N=1,543)**

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| **Type of helminth infection** | **Asthma cases****N=513** | **Non-asthma controls****N=1,030** | **Adj. OR (95% CI)** |
| **Any helminth infection**  |
| None (1,337) | 460 (89.7) | 877 (85.1) | 1 |
| Yes (206) | 53 (10.3) | 153 (14.9) | 0.75 (0.53-1.07) |
| ***Schistosoma mansoni***  |
| None (1,414) | 477 (93.0) | 937 (91.0) | 1 |
| Yes (129) | 36 (7.0) | 93 (9.0) | 0.81 (0.53-1.23) |
| ***Trichuris trichiura*** |
| None (1,506) | 508 (99.0) | 998 (96.9) | 1 |
| Yes (37) | 5 (1.0) | 32 (3.1) | 0.33 (0.13-0.89) |
| **Hookworm** |
| None (1,524) | 510 (99.4) | 1,014 (98.5) | 1 |
| Yes (19) | 3 (0.6) | 16 (1.5) | 0.59 (0.16-2.18) |
| ***Ascaris lumbricoides*** |
| None (1,537) | 512 (99.8) | 1,025 (99.5) | 1 |
| Yes (6) | 1 (0.2) | 5 (0.5) | 0.75 (0.08-6.82) |
| **Other helminth infections**¤ |
| None (1,507) | 501 (97.7) | 1,006 (97.7) | 1 |
| Yes (36) | 12 (2.3) | 24 (2.3) | 1.36 (0.64-2.89) |

**Supplementary file 1b:** **Combined effects of atopy and parental history of allergic disease as asthma risk factors among schoolchildren enrolled in a case-control study in Uganda from 2015-17 (N=1,501)**

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| **Atopy (SPT)** | **Parental history of allergy** | **Asthma cases N=518** | **Non-asthma controls N=983** | **Adj. OR (95% CI)** |
| - | - | 77 (14.9) | 394 (40.1) | 1 |
| + | - | 105 (20.3) | 168 (17.1) | 3.07 (2.14-4.41) |
| - | + | 149 (28.7) | 272 (27.7) | 2.79 (2.01-3.87) |
| + | + | 187 (36.1) | 149 (15.1) | 5.74 (4.07-8.10) |

**Supplementary file 1c: Combined effects of maternal and paternal history of allergic disease as asthma risk factors among schoolchildren in a case-control study in Uganda between 2015-17 (N=1,498)**

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| **Parental reported history of allergic disease** | **Asthma cases N=511** | **Non-asthma controls N=987**  | **Adj. OR (95% CI)** |
| Neither parent  | 184 (36.0) | 572 (58.0) | 1 |
| Mother only | 159 (31.1) | 232 (23.5) | 2.15 (1.63-2.83) |
| Father only | 89 (17.4) | 87 (8.8) | 2.74 (1.92-3.92) |
| Both parents  | 79 (15.5) | 96 (9.7) | 2.49 (1.74-3.58) |