**Supplementary Material**

Table S1: Unadjusted analysis of predictors for *Mycobacterium tuberculosis* infection in household contacts (N=883)\*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TST positive  N=609 (%) | TST negative  N=274 (%) | Odds ratio (95%CI) | *p* value† |
| IC characteristics |  |  |  |  |
| Age, years, median (range) | 33.6 (18-81.8) | 37.3 (18-81.8) | 0.99 (0.98, 1.0) | 0.29 |
| Sex of IC  Female‡  Male | 212 (34.8)  397 (65.2) | 87 (31.8)  187 (68.3) | 0.86 (0.52, 1.41) | 0.54 |
| Index case sputum AFB grade  2+ ‡  3+ | 100 (16.4)  509 (83.6) | 68 (24.8)  206 (75.2) | 1.6 (0.90, 3.0) | 0.11 |
| Cavities on CXR  Absent ‡  Present | 131 (21.9)  468 (78.1) | 86 (31.6)  186 (68.4) | 2.01 (1.2, 3.5) | 0.01 |
| CXR score, median (range) | 73.3 (0-140) | 73.3 (0-123.3) | 1.01 (1.00, 1.02) | 0.01 |
| Visual analog cough scale category  0-3‡  4-6  7-10 | 75 (12.8)  134 (22.9)  377 (64.3) | 68 (25.7)  88 (33.2)  109 (41.1) | 1.3 (0.7, 2.6)  2.9 (1.6, 5.5) | <0.01 |
| Duration of illness, weeks, median (range) | 13.0 (2.0, 52.2) | 8.70 (3.0, 52.2) | 1.0 (0.99, 1.0) | 0.16 |
| Karnofsky score§  <=70‡  >=80 | 20 (3.3)  589 (96.7) | 24 (8.8)  250 (91.2) | 2.34 (0.90, 6.1) | 0.19 |
| HHC characteristics |  |  |  |  |
| Age, years, median (range) | 22 (0.30-87) | 16.5 (0.30-84) | 1.01 (1.01, 1.02) | <0.01 |
| Sex  Female‡  Male | 354 (58.1)  255 (41.9) | 143 (52.2)  131 (47.8) | 0.79 (0.63,1.0) | 0.05 |
| BMI, kg/m2, median (range) | 21.6 (4.2, 48.4) | 20.3 (4.7, 39) | 1.0 (0.98, 1.0) | 0.82 |
| Sleeping proximity  Other‡  Same room, same bed  Same room, different bed  Same house, different  room | 163 (27.2)  117 (19.5)  48 (8)  271 (45.2) | 101 (37.4)  23 (8.5)  19 (7)  127 (47) | 3.33 (2.1, 5.4)  2.3 (1.4, 3.8)  1.8 (1.3, 2.4) | <0.01 |
| Hours contact with index case  ≤6 hours per day‡  7-12 hours per day  13-18 hours per day  >18 hours per day | 170 (28.4)  193 (32.2)  159 (26.5)  77 (12.9) | 106 (39.4)  82 (30.5)  56 (20.8)  25 (9.3) | 1.6 (1.1, 2.2)  2.1 (1.3, 3.2)  2.8 (1.5, 5.1) | <0.01 |
| Index Case Relation to HHC  Other‡  Spouse  Child/parent | 317 (52.1)  79 (13)  213 (35) | 163 (59.5)  15 (5.5)  96 (35) | 1.9 (1.1, 3.4)  1.2 (0.85, 1.7) | 0.07 |
| Education  None/Less than Primary‡  Primary  Secondary  Post-Secondary | 374 (62.5)  113 (18.9)  99 (16.6)  12 (2) | 192 (71.1)  36 (13.3)  40 (14.8)  2 (0.70) | 1.6 (1.1, 2.5)  1.3 (0.78, 2.0)  2.4 (0.58, 9.6) | 0.09 |
| BCG scar  Present‡  Absent | 490 (81.8)  109 (18.2) | 211 (81.5)  50 (18.5) | 0.54 (0.36, 0.83) | <0.01 |
| Occupation  Other‡  At home  Office worker | 436 (71.6)  144 (23.7)  29 (4.8) | 205 (74.8)  57 (20.8)  12 (4.4) | 0.88 (0.60, 1.3)  0.94 (0.45, 2.0) | 0.81 |
| Meals per day with IC  None‡  1  2  3 | 123 (45.6)  46 (17)  53 (19.6)  48 (17.8) | 183 (30.6)  155 (25.9)  111 (18.5)  150 (25) | 2.1 (1.3, 3.2)  1.8 (1.1, 3.1)  2.6 (1.6, 4.0) | <0.01 |
| Provided Care for IC  No‡  Yes | 415 (69.3)  184 (30.7) | 211 (78.2)  59 (21.9) | 1.3 (0.84, 1.9) | 0.25 |

Footnotes:

\*The model in Table S1 was run with the inclusion of age, sex and age\*sex interaction (all at the same time) for each of the row variables to predict TST positivity (except for age and sex of household contacts where analysis is univariate). Age is non-categorized in this unadjusted analysis.

†*p*-value corresponds to type III test for each variable in the unadjusted model

‡Reference category for odds ratios

§Karnofsky score = functional ability performance scale

Abbreviations:

TST = Tuberculin skin test, CI = confidence interval, IC = index case, AFB = acid-fast bacilli, CXR = chest x-ray, HHCs = household contacts, BMI = body mass index, BCG = Bacille Calmette-Guérin vaccine