**Supplementary Material**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TST positiveN=609 (%) | TST negativeN=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