Supplemental Table 1. Characteristics of the 389 patient-partner pairs.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | BCG | | | | | | No BCG | |
|  | patient total | partner  total | patient fully exposed | partner fully exposed | patient partially exposed | Partner partially exposed | patient | partner |
| Total | 232 | 232 | 92 | 92 | 140 | 140 | 157 | 157 |
| Male sex (%) | 204 (88%) | 29 (12%) | 81 (88%) | 11 (12%) | 123 (88%) | 18 (13%) | 123 (78%) | 33 (21%) |
| Age at questionnaire (median (IQR)) | 71 (64-74) | 69 (63-73) | 71 (66-74) | 69 (65-73) | 71 (63-74) | 68 (62-73) | 70 (65-74) | 69 (63-73) |
| Smoking history |  |  |  |  |  |  |  |  |
| Never smoker (%) | 53 (23%) | 92 (40%) | 17 (18%) | 37 (41%) | 36 (26%) | 55 (40%) | 36 (23%) | 70 (45%) |
| Previous smoker (%) | 165 (71%) | 121 (53%) | 73 (79%) | 47 (52%) | 92 (66%) | 74 (54%) | 114 (73%) | 69 (45%) |
| Current smoker (%)1 | 14 (6%) | 15 (7%) | 2 (2%) | 6 (7%) | 12 (9%) | 9 (6%) | 7 (5%) | 16 (10%) |
| Body mass index (median, IQR)2 | 26.6 (24.7-29.1) | 25.4 (23.1-28.4) | 27.4 (25.1-29.3) | 26.1 (23.0-28.7) | 26.0 (24.4-28.8) | 25.3 (23.1-28.2) | 26.3 (24.5-29.3) | 26.3 (23.2-28.8) |
| Comorbid conditions |  |  |  |  |  |  |  |  |
| History of heart disease (including hypertension)1 | 106 (46%) | 85 (37%) | 46 (50%) | 34 (38%) | 60 (43%) | 51 (37%) | 87 (55%) | 79 (51%) |
| History of chronic lung disease (asthma, COPD, bronchitis, emphysema)1 | 25 (11%) | 34 (15%) | 12 (13%) | 10 (11%) | 13 (9%) | 24 (17%) | 24 (15%) | 14 (9%) |
| Diabetes mellitus1 | 30 (13%) | 23 (10%) | 12 (13%) | 8 (9%) | 18 (13%) | 15 (11%) | 18 (11%) | 21 (14%) |
| BCG vaccination ever (%)2 | 33 (14%) | 39 (17%) | 13 (14%) | 18 (20%) | 18 (14%) | 21 (16%) | 31 (20%) | 28 (19%) |
| Employment status |  |  |  |  |  |  |  |  |
| Employed | 52 (22%) | 53 (23%) | 17 (18%) | 19 (21%) | 35 (25%) | 34 (24%) | 34 (22%) | 37 (24%) |
| Retired | 164 (71%) | 155 (67%) | 69 (75%) | 63 (68%) | 95 (68%) | 92 (66%) | 116 (74%) | 106 (68%) |
| Unemployed | 16 (7%) | 24 (10%) | 6 (7%) | 10 (11%) | 10 (7%) | 14 (10%) | 7 (5%) | 14 (9%) |
| Health care personnel3 | 19 (8%) | 18 (8%) | 4 (4%) | 4 (4%) | 15 (11%) | 14 (10%) | 21 (13%) | 18 (12%) |

1Data of 6 partners were missing. 2Data of 1 patient and 14 partners were missing. 3Data of 1 patient and 6 partners were missing.

Supplemental Table 2. Number of pairs in which either only the partner or both patient and partner reported COVID-19, stratified for BCG exposure of the patient.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Partner and patient COVID-19 | Only partner COVID-19 | Total |
| No BCG | 14 (64%) | 8 (36%) | 22 |
| BCG | 25 (58%) | 18 (42%) | 43 |
| Total | 39 | 26 | 65 |

Supplemental Table 3. Hazard ratios (HR) for risk of COVID-19 in patients with NMIBC versus partners, stratified for BCG instillation status.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | n | Events/person-years | Crude model  HR (95%CI) | Adjusted model#  HR (95%CI) |
| BCG total |  |  |  |  |
| partner | 232 | 43/245 | 1.00 (ref) | 1.00 (ref) |
| patient | 232 | 37/258 | 0.82 (0.53, 1.27) | 1.00 (0.52, 1.95) |
|  |  |  |  |  |
| BCG fully exposed |  |  |  |  |
| partner | 92 | 19/97 | 1.00 (ref) | 1.00 (ref) |
| patient | 92 | 16/101 | 0.80 (0.41, 1.55) | 1.55 (0.54, 4.42) |
|  |  |  |  |  |
| BCG partially exposed |  |  |  |  |
| partner | 140 | 24/148 | 1.00 (ref) | 1.00 (ref) |
| patient | 140 | 21/157 | 0.83 (0.46, 1.49) | 0.81 (0.35, 1.86) |
|  |  |  |  |  |
| No BCG |  |  |  |  |
| partner | 157 | 22/171 | 1.00 (ref) | 1.00 (ref) |
| patient | 157 | 25/178 | 1.10 (0.62, 1.94) | 1.16 (0.58, 2.33) |

#Adjusted for age, sex, and BMI.