**Supplemental Digital Content 3:** Patient characteristics of original (N=75) and vaccine study (N=56)

| **Characteristic** | **Total patients original study**  **N = 751** | **Patients included in vaccine study**  **N = 562/75** | **Patients not vaccinated**  **N = 512/56** | **Patients**  **vaccinated,**  **N = 52/56** | **p-value3** |
| --- | --- | --- | --- | --- | --- |
| **Hospital** |  |  |  |  | 0.78 |
| 1 | 1 (1.3%) | 1 (1.8%) | 1 (2.0%) | 0 (0%) |  |
| 2 | 9 (12%) | 6 (10.7%) | 5 (9.8%) | 1 (20%) |  |
| 3 | 7 (9.3%) | 6 (10.7%) | 6 (11.8%) | 0 (0%) |  |
| 4 | 1 (1.3%) | 1 (1.8%) | 1 (2.0%) | 0 (0%) |  |
| 5 | 8 (10.7%) | 8 (14.3%) | 7 (13.7%) | 1 (20%) |  |
| 6 | 24 (32%) | 15 (26.8%) | 12 (23.5%) | 3 (60%) |  |
| 7 | 7 (9.3%) | 7 (12.5%) | 7 (13.7%) | 0 (0%) |  |
| 8 | 12 (16%) | 8 (14.3%) | 8 (15.7%) | 0 (0%) |  |
| 9 | 6 (8.0%) | 4 (7.1%) | 4 (7.8%) | 0 (0%) |  |
| **Age** | 9.1 [6.2, 12.2] | 9.3 [6.0, 12.1] | 8.9 [5.9, 11.3] | 13.0 [12.1, 13.4] | 0.04 |
| **Gender** |  |  |  |  | 0.31 |
| Male | 56 (74.7%) | 40 (71.4%) | 35 (68.6%) | 5 (100%) |  |
| Female | 19 (25.3%) | 16 (28.6%) | 16 (31.4%) | 0 (0%) |  |
| **Ethnicity** |  |  |  |  | 0.36 |
| Asian | 6 (8.0%) | 3 (5.4%) | 3 (5.9%) | 0 (0%) |  |
| Black / African / Caribbean | 4 (5.3%) | 4 (7.1%) | 4 (7.8%) | 0 (0%) |  |
| Mixed / Multiple ethnic groups | 4 (5.3%) | 3 (5.4%) | 3 (5.9%) | 0 (0%) |  |
| Other ethnic group | 2 (2.7%) | 2 (3.6%) | 1 (2.0%) | 1 (20%) |  |
| White | 59 (78.7%) | 44 (78.6%) | 40 (78.4%) | 4 (80%) |  |
| **Diabetes** |  |  |  |  | 0.99 |
| No | 74 (98.7%) | 55 (98.2%) | 50 (98%) | 5 (100%) |  |
| Yes | 1 (1.3%) | 1 (1.8%) | 1 (2.0%) | 0 (0%) |  |
| **Heart disease** |  |  |  |  | 0.99 |
| No | 73 (97.3%) | 54 (96.4%) | 49 (96.1%) | 5 (100%) |  |
| Yes | 2 (2.7%) | 2 (3.6%) | 2 (3.9%) | 0 (0%) |  |
| **Days in ICU/HDU** | 4.0 [2.0, 4.8]  Missing = 29 (38.7%) | 4.0 [2.8, 5.0]  Missing = 20 (35.7%) | 4.0 [3.0, 5.0]  Missing = 17 (33.3%) | 1.5 [1.3, 1.8]  Missing = 3 (60%) | 0.08 |
| **Days hospitalized** | 6.0 [5.0, 8.0] | 6.0 [4.0, 8.0] | 6.0 [4.0, 8.0] | 6.0 [5.0, 7.0] | 0.88 |
| *1Characteristics of total population (original manuscript)* | | | | | | |
| *2n (%); Median [IQR]* | | | | | | |
| *3Fisher's exact test; Wilcoxon rank sum test; comparison of patients who received and didn’t receive the vaccine* | | | | | | |