

**Supplementary Table 2: Solicited local reactions and systemic adverse events.**

|  | PHH-1V (N=513) | BNT162b2 (N=252) | OR (95% CI)        | p value |
|--|----------------|------------------|--------------------|---------|
| <b>Solicited local reactions</b>         |                |                  |                    |         |
| <i>Day 1</i>                             |                |                  |                    |         |
| Pain                                     | 262 (51.1)     | 176 (69.8)       | 0.45 [0.32, 0.62]  | 0.00    |
| Tenderness                               | 249 (48.5)     | 160 (63.5)       | 0.54 [0.39, 0.75]  | 0.0001  |
| Induration/swelling                      | 30 (5.8)       | 44 (17.5)        | 0.29 [0.18, 0.48]  | 0.00    |
| Erythema redness                         | 21 (4.1)       | 25 (9.9)         | 0.39 [0.21, 0.72]  | 0.002   |
| <i>Day 3</i>                             |                |                  |                    |         |
| Pain                                     | 42 (8.2)       | 48 (19.0)        | 0.38 [0.24, 0.60]  | 0.00    |
| Tenderness                               | 42 (8.2)       | 51 (20.2)        | 0.35 [0.23, 0.55]  | 0.00    |
| Induration/swelling                      | 10 (1.9)       | 18 (7.1)         | 0.26 [0.11, 0.60]  | 0.0007  |
| Erythema redness                         | 10 (1.9)       | 12 (4.8)         | 0.4 [0.17, 0.96]   | 0.04    |
| <i>Day 7</i>                             |                |                  |                    |         |
| Pain                                     | 5 (1.0)        | 4 (1.6)          | 0.61 [0.16, 2.43]  | 0.49    |
| Tenderness                               | 6 (1.2)        | 5 (2.0)          | 0.59 [0.17, 1.97]  | 0.52    |
| Induration/swelling                      | 1 (0.2)        | 2 (0.8)          | 0.24 [0.01, 3.14]  | 0.25    |
| Erythema redness                         | 2 (0.4)        | 2 (0.8)          | 0.49 [0.05, 4.55]  | 0.60    |
| <b>Solicited Systemic Adverse Events</b> |                |                  |                    |         |
| <i>Day 1</i>                             |                |                  |                    |         |
| Fatigue                                  | 82 (16.0)      | 89 (35.3)        | 0.35 [0.24, 0.50]  | 0.00    |
| Headache                                 | 73 (14.2)      | 70 (27.8)        | 0.43 [0.30, 0.63]  | 0.00    |
| Muscle pain                              | 60 (11.7)      | 74 (29.4)        | 0.32 [0.22, 0.47]  | 0.00    |
| Fever                                    | 3 (0.6)        | 18 (7.1)         | 0.08 [0.02, 0.26]  | 0.00    |
| Diarrhoea                                | 12 (2.3)       | 4 (1.6)          | 1.48 [0.48, 5.03]  | 0.60    |
| Nausea                                   | 8 (1.6)        | 6 (2.4)          | 0.65 [0.22, 1.90]  | 0.41    |
| <i>Day 3</i>                             |                |                  |                    |         |
| Fatigue                                  | 30 (5.8)       | 12 (4.8)         | 1.24 [0.61, 2.64]  | 0.61    |
| Headache                                 | 24 (4.7)       | 13 (5.2)         | 0.9 [0.45, 1.86]   | 0.86    |
| Muscle pain                              | 15 (2.9)       | 13 (5.2)         | 0.55 [0.26, 1.26]  | 0.15    |
| Fever                                    | 2 (0.4)        | 1 (0.4)          | 0.98 [0.08, 28.59] | 1.00    |
| Diarrhoea                                | 5 (1.0)        | 0 (0)            | ∞ [0.49, ∞]        | 0.18    |
| Nausea                                   | 4 (0.8)        | 1 (0.4)          | 1.97 [0.26, 48.01] | 1.00    |
| <i>Day 7</i>                             |                |                  |                    |         |
| Fatigue                                  | 10 (1.9)       | 2 (0.8)          | 2.48 [0.58, 15.91] | 0.35    |
| Headache                                 | 19 (3.7)       | 7 (2.8)          | 1.35 [0.56, 3.44]  | 0.67    |
| Muscle pain                              | 7 (1.4)        | 1 (0.4)          | 3.47 [0.49, 77.42] | 0.28    |
| Fever                                    | 1 (0.2)        | 0 (0)            | ∞ [0.03, ∞]        | 1.00    |
| Diarrhoea                                | 2 (0.4)        | 0 (0)            | ∞ [0.14, ∞]        | 1.00    |
| Nausea                                   | 1 (0.2)        | 0 (0)            | ∞ [0.03, ∞]        | 1.00    |

Data are shown for Day 1, 3 and 7 post booster vaccination, as “number of subjects (percentage)” in relation to the safety population. For comparison of dichotomous variables between groups, the OR of the corresponding proportions were estimated and tested against the null hypothesis  $H_0: OR = 1$  using Fisher's Exact test. CI=Confidence Interval; OR=Odds ratio.