

# COVID-19 Immunogenicity Analysis Report

USG COVID-19 Response Biostatistics Team

March 28, 2021



# Contents

|     |  |     |
|-----|--|-----|
| 1   | Tabular Description of Immunogenicity Data   | 9   |
| 2   | Graphical Description of Immunogenicity Data   | 353 |
| 2.1 | Pairs plots of antibody markers for overall per-protocol cohort . . . . .              | 353 |
| 2.2 | RCDF plots of antibody markers for overall per-protocol cohort . . . . .               | 365 |
| 2.3 | Scatter plots of antibody markers versus age for overall per-protocol cohort . . . . . | 370 |
| 2.4 | Box plots of antibody markers for overall per-protocol cohort . . . . .                | 372 |
| 2.5 | Spaghetti plots of antibody markers over time for the overall per-protocol cohort . .  | 381 |
| 2.6 | RCDF plots of antibody markers by demographics for per-protocol cohort . . . . .       | 382 |
| 2.7 | Boxplots of antibody markers by demographics for per-protocol cohort . . . . .         | 439 |



# List of Tables

|      |   |    |
|------|---|----|
| 1.1  | Table 1. Demographic and Clinical Characteristics at Baseline in the baseline SARS-CoV-2 negative per-protocol cohort . . . . .   | 9  |
| 1.2  | Table 2. Demographic and Clinical Characteristics at Baseline in the baseline SARS-CoV-2 positive per-protocol cohort . . . . .   | 12 |
| 1.3  | Table 3a. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by All participants . . . . .                          | 14 |
| 1.4  | Table 3b. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Age . . . . .                                       | 17 |
| 1.5  | Table 3c. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Risk for Severe Covid-19 . . . . .                  | 21 |
| 1.6  | Table 3d. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Age, Risk for Severe Covid-19                       | 25 |
| 1.7  | Table 3e. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Sex . . . . .                                       | 32 |
| 1.8  | Table 3f. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Age, sex . . . . .                                  | 36 |
| 1.9  | Table 3g. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Hispanic or Latino ethnicity                        | 42 |
| 1.10 | Table 3h. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Race . . . . .                                      | 48 |
| 1.11 | Table 3i. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Underrepresented minority status . . . . .          | 61 |
| 1.12 | Table 3j. Percentage of responders, and participants with concentrations $\geq 2 \times$ LLOD or $\geq 4 \times$ LLOD for binding antibody markers by Age, Underrepresented minority status . . . . .     | 65 |
| 1.13 | Table 4a. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by All participants . . . . . | 74 |

|      |  |     |
|------|--|-----|
| 1.14 | Table 4b. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age . . . . .                                   | 76  |
| 1.15 | Table 4c. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Risk for Severe Covid-19 . . . . .              | 78  |
| 1.16 | Table 4d. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age, Risk for Severe Covid-19 . . . . .         | 81  |
| 1.17 | Table 4e. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Sex . . . . .                                   | 85  |
| 1.18 | Table 4f. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age, sex . . . . .                              | 87  |
| 1.19 | Table 4g. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Hispanic or Latino ethnicity . . . . .          | 91  |
| 1.20 | Table 4h. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Race . . . . .                                  | 94  |
| 1.21 | Table 4i. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Underrepresented minority status . . . . .      | 101 |
| 1.22 | Table 4j. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age, Underrepresented minority status . . . . . | 104 |
| 1.23 | Table 5a. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by All participants . . . . .  | 109 |
| 1.24 | Table 5b. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age . . . . .   | 113 |
| 1.25 | Table 5c. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Risk for Severe Covid-19 . . . . .  | 120 |
| 1.26 | Table 5d. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age, Risk for Severe Covid-19 . . . . .   | 127 |
| 1.27 | Table 5e. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Sex . . . . .   | 140 |
| 1.28 | Table 5f. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age, sex . . . . .  | 147 |

|  |     |
|--|-----|
| 1.29 Table 5g. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Hispanic or Latino ethnicity . . . . .   | 160 |
| 1.30 Table 5h. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Race . . . . .   | 170 |
| 1.31 Table 5i. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Underrepresented minority status . . . . .   | 196 |
| 1.32 Table 5j. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age, Underrepresented minority status . . . . .  | 203 |
| 1.33 Table 6a. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by All participants . . .                          | 216 |
| 1.34 Table 6b. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age . . . . .                                   | 219 |
| 1.35 Table 6c. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Risk for Severe Covid-19 . . . . .              | 224 |
| 1.36 Table 6d. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age, Risk for Severe Covid-19 . . . . .         | 229 |
| 1.37 Table 6e. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Sex . . . . .                                   | 240 |
| 1.38 Table 6f. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age, sex . . . . .                              | 245 |
| 1.39 Table 6g. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Hispanic or Latino ethnicity . . . . .          | 255 |
| 1.40 Table 6h. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Race . . . . .                                  | 264 |
| 1.41 Table 6i. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Underrepresented minority status . . . . .      | 288 |
| 1.42 Table 6j. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age, Underrepresented minority status . . . . . | 294 |
| 1.43 Table 7. The ratios of GMTs/GMCs between groups . . . . .   | 309 |
| 1.44 Table 8a. Differences in the responder rates, 2FRs, 4FRs between the vaccine arm and the placebo arm by All participants . . . . .  | 347 |
| 1.45 Table 9. Antibody levels in the baseline SARS-CoV-2 negative per-protocol cohort (vaccine vs. placebo) . . . . .  | 349 |

|   |     |
|---|-----|
| 1.46 Table 10. Antibody levels in the baseline SARS-CoV-2 positive per-protocol cohort<br>(vaccine vs. placebo) . . . . . | 350 |
| 1.47 Table 11. Antibody levels in the per-protocol cohort (vaccine recipients) . . . . .                                  | 351 |
| 1.48 Table 12. Antibody levels in the per-protocol cohort (placebo recipients) . . . . .                                  | 352 |

# List of Figures

|      |   |     |
|------|---|-----|
| 2.1  | Pair plots of D29 Ab markers: baseline negative vaccine arm . . . . .                               | 353 |
| 2.2  | Pair plots of D57 Ab markers: baseline negative vaccine arm . . . . .                               | 354 |
| 2.3  | Pair plots of D29 fold-rise over D1 Ab markers: baseline negative vaccine arm . . . . .             | 354 |
| 2.4  | Pair plots of D57 fold-rise over D1 Ab markers: baseline negative vaccine arm . . . . .             | 355 |
| 2.5  | Pair plots of D1, D29 and D57 Binding Antibody to Spike: baseline negative vaccine arm . . . . .    | 355 |
| 2.6  | Pair plots of D1, D29 and D57 Binding Antibody to RBD: baseline negative vaccine arm . . . . .      | 356 |
| 2.7  | Pair plots of D1, D29 and D57 PsV Neutralization 50% Titer: baseline negative vaccine arm . . . . . | 357 |
| 2.8  | Pair plots of D1, D29 and D57 PsV Neutralization 80% Titer: Baseline negative vaccine arm . . . . . | 358 |
| 2.9  | Pair plots of D29 Ab markers: baseline positive vaccine arm . . . . .                               | 359 |
| 2.10 | Pair plots of D57 Ab markers: baseline positive vaccine arm . . . . .                               | 360 |
| 2.11 | Pair plots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm . . . . .             | 360 |
| 2.12 | Pair plots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm . . . . .             | 361 |
| 2.13 | Pair plots of D1, D29 and D57 Binding Antibody to Spike: baseline negative placebo arm . . . . .    | 361 |
| 2.14 | Pair plots of D1, D29 and D57 Binding Antibody to RBD: baseline negative placebo arm . . . . .      | 362 |
| 2.15 | Pair plots of D1, D29 and D57 PsV Neutralization 50% Titer: baseline negative placebo arm . . . . . | 363 |
| 2.16 | Pair plots of D1, D29 and D57 PsV Neutralization 80% Titer: Baseline negative placebo arm . . . . . | 364 |
| 2.17 | RCDF plots for D29 Ab markers: by baseline status x randomization arm . . . . .                     | 365 |

|      |   |     |
|------|---|-----|
| 2.18 | RCDF plots for D57 Ab markers: by baseline status x randomization arm . . . . .                   | 366 |
| 2.19 | RCDF plots for D29 fold-rise over D1 Ab markers: by baseline status x randomization arm . . . . . | 366 |
| 2.20 | RCDF plots for D57 fold-rise over D1 Ab markers: by baseline status x randomization arm . . . . . | 367 |
| 2.21 | RCDF plots for D29 Ab markers: by baseline status for the vaccine arm . . . . .                   | 367 |
| 2.22 | RCDF plots for D57 Ab markers: by baseline status for the vaccine arm . . . . .                   | 368 |
| 2.23 | RCDF plots for D29 over D1 fold-rise Ab markers: by baseline status for the vaccine arm . . . . . | 368 |
| 2.24 | RCDF plots for D57 fold-rise over D1 Ab markers: by baseline status for the vaccine arm . . . . . | 368 |
| 2.25 | RCDF plots for D29 Ab markers: baseline negative vaccine arm . . . . .                            | 369 |
| 2.26 | RCDF plots for D57 Ab markers: baseline negative vaccine arm . . . . .                            | 369 |
| 2.27 | RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm . .                | 369 |
| 2.28 | RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm . .                | 370 |
| 2.29 | Scatter plots for D29 Ab markers vs. age: baseline negative vaccine arm . . . . .                 | 370 |
| 2.30 | Scatter plots for D57 Ab markers vs. age: baseline negative vaccine arm . . . . .                 | 371 |
| 2.31 | Scatter plots for D29 Ab markers vs. age: baseline positive vaccine arm . . . . .                 | 371 |
| 2.32 | Scatter plots for D57 Ab markers vs. age: baseline positive vaccine arm . . . . .                 | 372 |
| 2.33 | Boxplots of D29 Ab markers: baseline negative vaccine + placebo arms . . . . .                    | 373 |
| 2.34 | Boxplots of D57 Ab markers: baseline negative vaccine + placebo arms . . . . .                    | 373 |
| 2.35 | Boxplots of D29 fold-rise over D1 Ab markers: baseline negative vaccine + placebo arms . . . . .  | 374 |
| 2.36 | Boxplots of D57 fold-rise over D1 Ab markers: baseline negative vaccine + placebo arms . . . . .  | 374 |
| 2.37 | Boxplots of D29 Ab markers: baseline positive vaccine + placebo arms . . . . .                    | 375 |
| 2.38 | Boxplots of D57 Ab markers: baseline positive vaccine + placebo arms . . . . .                    | 375 |
| 2.39 | Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine + placebo arms . . . . .  | 376 |
| 2.40 | Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine + placebo arms . . . . .  | 376 |
| 2.41 | Boxplots of D29 Ab markers: baseline positive + negative vaccine arm . . . . .                    | 377 |
| 2.42 | Boxplots of D57 Ab markers: baseline positive + negative vaccine arm . . . . .                    | 377 |

|   |     |
|---|-----|
| 2.43 Boxplots of D29 fold-rise over D1 Ab markers: baseline positive + negative vaccine arm . . . . .                       | 378 |
| 2.44 Boxplots of D57 fold-rise over D1 Ab markers: baseline positive + negative vaccine arm . . . . .                       | 378 |
| 2.45 Boxplots of D29 Ab markers: baseline positive + negative placebo arm . . . . .   | 379 |
| 2.46 Boxplots of D57 Ab markers: baseline positive + negative placebo arm . . . . .   | 379 |
| 2.47 Boxplots of D29 fold-rise over D1 Ab markers: baseline positive + negative placebo arm . . . . .                       | 380 |
| 2.48 Boxplots of D57 fold-rise over D1 Ab markers: baseline positive + negative placebo arm . . . . .                       | 380 |
| 2.49 Spaghetti plots of Ab markers over time: baseline negative vaccine + placebo arm . . . . .                             | 381 |
| 2.50 Spaghetti plots of Ab markers over time: baseline positive vaccine + placebo arm . . . . .                             | 382 |
| 2.51 RCDF plots for D29 Ab markers: baseline negative vaccine arm by age groups. . . . .                                    | 383 |
| 2.52 RCDF plots for D57 Ab markers: baseline negative vaccine arm by age groups. . . . .                                    | 383 |
| 2.53 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age groups. . . . .                  | 384 |
| 2.54 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age groups. . . . .                  | 384 |
| 2.55 RCDF plots for D29 Ab markers: baseline negative vaccine arm by high-risk condition. . . . .                           | 385 |
| 2.56 RCDF plots for D57 Ab markers: baseline negative vaccine arm by high-risk condition. . . . .                           | 385 |
| 2.57 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by high-risk condition. . . . .         | 386 |
| 2.58 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by high-risk condition. . . . .         | 386 |
| 2.59 RCDF plots for D29 Ab markers: baseline negative vaccine arm by age and high-risk condition. . . . .                   | 387 |
| 2.60 RCDF plots for D57 Ab markers: baseline negative vaccine arm by age and high-risk condition. . . . .                   | 388 |
| 2.61 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and high-risk condition. . . . . | 389 |
| 2.62 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and high-risk condition. . . . . | 390 |
| 2.63 RCDF plots for D29 Ab markers: baseline negative vaccine arm by sex assigned at birth. . . . .                         | 391 |
| 2.64 RCDF plots for D57 Ab markers: baseline negative vaccine arm by sex assigned at birth. . . . .                         | 391 |

|   |     |
|---|-----|
| 2.65 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by sex assigned at birth. . . . .                               | 392 |
| 2.66 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by sex assigned at birth. . . . .                               | 392 |
| 2.67 RCDF plots for D29 Ab markers: baseline negative vaccine arm by age and sex assigned at birth. . . . .   | 393 |
| 2.68 RCDF plots for D57 Ab markers: baseline negative vaccine arm by age and sex assigned at birth. . . . .   | 394 |
| 2.69 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and sex assigned at birth. . . . .                       | 395 |
| 2.70 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and sex at birth. . . . .                                | 396 |
| 2.71 RCDF plots for D29 Ab markers: baseline negative vaccine arm by ethnicity. . . . .   | 397 |
| 2.72 RCDF plots for D57 Ab markers: baseline negative vaccine arm by ethnicity. . . . .   | 398 |
| 2.73 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by ethnicity. . . . .   | 399 |
| 2.74 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by ethnicity. . . . .   | 400 |
| 2.75 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by ethnicity. . . . .   | 401 |
| 2.76 RCDF plots for D29 Ab markers: baseline negative vaccine arm by race. . . . .  | 402 |
| 2.77 RCDF plots for D57 Ab markers: baseline negative vaccine arm by race. . . . .  | 403 |
| 2.78 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by race. . . . .  | 404 |
| 2.79 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by race. . . . .  | 405 |
| 2.80 RCDF plots for D29 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group. . . . .                   | 406 |
| 2.81 RCDF plots for D57 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group. . . . .                   | 406 |
| 2.82 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group. . . . . | 407 |
| 2.83 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group. . . . . | 407 |
| 2.84 RCDF plots for D29 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group. . . . .           | 408 |

|   |     |
|---|-----|
| 2.85 RCDF plots for D57 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group. . . . .                   | 409 |
| 2.86 RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 410 |
| 2.87 RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 411 |
| 2.88 RCDF plots for D29 Ab markers: baseline positive vaccine arm by age groups. . . . .  | 412 |
| 2.89 RCDF plots for D57 Ab markers: baseline positive vaccine arm by age groups. . . . .  | 412 |
| 2.90 RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age groups. . . . .  | 413 |
| 2.91 RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age groups. . . . .  | 413 |
| 2.92 RCDF plots for D29 Ab markers: baseline positive vaccine arm by high-risk condition. . . . .   | 414 |
| 2.93 RCDF plots for D57 Ab markers: baseline positive vaccine arm by high-risk condition. . . . .   | 414 |
| 2.94 RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition. . . . .   | 415 |
| 2.95 RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition. . . . .   | 415 |
| 2.96 RCDF plots for D29 Ab markers: baseline positive vaccine arm by age and high-risk condition. . . . .   | 416 |
| 2.97 RCDF plots for D57 Ab markers: baseline positive vaccine arm by age and high-risk condition. . . . .   | 417 |
| 2.98 RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition. . . . .                                 | 418 |
| 2.99 RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition. . . . .                                 | 419 |
| 2.100RCDF plots for D29 Ab markers: baseline positive vaccine arm by sex assigned at birth. . . . .   | 420 |
| 2.101RCDF plots for D57 Ab markers: baseline positive vaccine arm by sex assigned at birth. . . . .   | 420 |
| 2.102RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth. . . . .                                       | 421 |
| 2.103RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth. . . . .                                       | 421 |
| 2.104RCDF plots for D29 Ab markers: baseline positive vaccine arm by age and sex assigned at birth. . . . .   | 422 |

|   |     |
|---|-----|
| 2.105RCDF plots for D57 Ab markers: baseline positive vaccine arm by age and sex assigned at birth. . . . .   | 423 |
| 2.106RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth. . . . .                               | 424 |
| 2.107RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth. . . . .                               | 425 |
| 2.108RCDF plots for D29 Ab markers: baseline positive vaccine arm by ethnicity. . . . .   | 426 |
| 2.109RCDF plots for D57 Ab markers: baseline positive vaccine arm by ethnicity. . . . .   | 427 |
| 2.110RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity. . . . .   | 428 |
| 2.111RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity. . . . .   | 429 |
| 2.112RCDF plots for D29 Ab markers: baseline positive vaccine arm by race. . . . .  | 430 |
| 2.113RCDF plots for D57 Ab markers: baseline positive vaccine arm by race. . . . .  | 431 |
| 2.114RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by race. . . . .  | 432 |
| 2.115RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by race. . . . .  | 433 |
| 2.116RCDF plots for D29 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group. . . . .                           | 434 |
| 2.117RCDF plots for D57 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group. . . . .                           | 434 |
| 2.118RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group. . . . .         | 435 |
| 2.119RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group. . . . .         | 435 |
| 2.120RCDF plots for D29 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group. . . . .                   | 436 |
| 2.121RCDF plots for D57 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group. . . . .                   | 437 |
| 2.122RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 438 |
| 2.123RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 439 |
| 2.124Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and sex assigned at birth. . . . .                                  | 440 |

|  |     |
|--|-----|
| 2.125Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and sex assigned at birth. . . . .                               | 441 |
| 2.126Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by ethnicity. . . . .   | 442 |
| 2.127Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by ethnicity. . . . .   | 443 |
| 2.128Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by race. . . . .  | 444 |
| 2.129Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by race. . . . .  | 445 |
| 2.130Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by dichotomous classification of race and ethnic group. . . . .         | 446 |
| 2.131Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by dichotomous classification of race and ethnic group. . . . .         | 446 |
| 2.132Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 447 |
| 2.133Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 448 |
| 2.134Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age group. . . . .   | 449 |
| 2.135Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age group. . . . .   | 450 |
| 2.136Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition. . . . .   | 450 |
| 2.137Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition. . . . .   | 451 |
| 2.138Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition. . . . .                                 | 452 |
| 2.139Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition. . . . .                                 | 453 |
| 2.140Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth. . . . .                                       | 454 |
| 2.141Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth. . . . .                                       | 454 |
| 2.142Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth. . . . .                               | 455 |
| 2.143Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth. . . . .                               | 456 |

|  |     |
|--|-----|
| 2.144Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity. . . . .   | 457 |
| 2.145Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity. . . . .   | 458 |
| 2.146Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by race. . . . .  | 459 |
| 2.147Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by race. . . . .  | 460 |
| 2.148Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group. . . . .         | 461 |
| 2.149Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group. . . . .         | 461 |
| 2.150Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 462 |
| 2.151Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group. . . . . | 463 |

# Chapter 1

## Tabular Description of Immunogenicity Data

Table 1. Demographic and Clinical Characteristics at Baseline in the baseline SARS-CoV-2 negative per-protocol cohort

| Characteristics                           | Vaccine<br>(N = 914) | Placebo<br>(N = 163) | Total<br>(N = 1077) |
|---|----------------------|----------------------|---------------------|
| Age                                       |                      |                      |                     |
| Age < 65                                  | 432 (47.3%)          | 80 (49.1%)           | 512 (47.5%)         |
| Age ≥ 65                                  | 482 (52.7%)          | 83 (50.9%)           | 565 (52.5%)         |
| Mean (Range)                              | 58.6 (18.0, 85.0)    | 59.0 (18.0, 85.0)    | 58.7 (18.0, 85.0)   |
| BMI                                       |                      |                      |                     |
| Mean ± SD                                 | 30.1 ± 7.0           | 29.6 ± 7.2           | 30.0 ± 7.0          |
| Sex                                       |                      |                      |                     |
| Female                                    | 519 (56.8%)          | 87 (53.4%)           | 606 (56.3%)         |
| Male                                      | 395 (43.2%)          | 76 (46.6%)           | 471 (43.7%)         |
| Race                                      |                      |                      |                     |
| White Non-Hispanic                        | 362 (43.8%)          | 67 (44.7%)           | 429 (43.9%)         |
| Black or African American                 | 195 (23.6%)          | 39 (26.0%)           | 234 (24.0%)         |
| Asian                                     | 67 (8.1%)            | 12 (8.0%)            | 79 (8.1%)           |
| American Indian or Alaska Native          | 13 (1.6%)            | 5 (3.3%)             | 18 (1.8%)           |
| Native Hawaiian or Other Pacific Islander | 17 (2.1%)            | 1 (0.7%)             | 18 (1.8%)           |
| Multiracial                               | 52 (6.3%)            | 8 (5.3%)             | 60 (6.1%)           |
| Other                                     | 34 (4.1%)            | 4 (2.7%)             | 38 (3.9%)           |
| Not reported and unknown                  | 87 (10.5%)           | 14 (9.3%)            | 101 (10.3%)         |
| Communities of Color                      | 420 (53.7%)          | 73 (52.1%)           | 493 (53.5%)         |
| Hispanic or Latino ethnicity              |                      |                      |                     |
| Hispanic or Latino                        | 136 (14.9%)          | 20 (12.3%)           | 156 (14.5%)         |

(continued)

| Characteristics               | Vaccine<br>(N = 914) | Placebo<br>(N = 163) | Total<br>(N = 1077) |
|-------------------------------|----------------------|----------------------|---------------------|
| Not Hispanic or Latino        | 690 (75.5%)          | 130 (79.8%)          | 820 (76.1%)         |
| Not reported and unknown      | 88 (9.6%)            | 13 (8.0%)            | 101 (9.4%)          |
| Risk for Severe Covid-19      |                      |                      |                     |
| At-risk                       | 469 (51.3%)          | 84 (51.5%)           | 553 (51.3%)         |
| Not at-risk                   | 445 (48.7%)          | 79 (48.5%)           | 524 (48.7%)         |
| Age, Risk for Severe Covid-19 |                      |                      |                     |
| Age $\geq$ 65                 | 482 (52.7%)          | 83 (50.9%)           | 565 (52.5%)         |
| Age < 65 At-risk              | 214 (23.4%)          | 40 (24.5%)           | 254 (23.6%)         |
| Age < 65 Not at-risk          | 218 (23.9%)          | 40 (24.5%)           | 258 (24.0%)         |

This table summarises the random subcohort, which was randomly sampled from the per-protocol individuals without a COVID failure event  $< 7$  days post Day 57. The sampling was stratified by the key baseline covariates: assigned treatment arm, baseline SARS-CoV-2 status (defined by serostatus and possibly also NAAT and/or RNA PCR testing), any additional important demographic factors such as the randomization strata (e.g., defined by age and/or co-morbidities).

Table 2. Demographic and Clinical Characteristics at Baseline in the baseline SARS-CoV-2 positive per-protocol cohort

| Characteristics                           | Vaccine<br>(N = 274) | Placebo<br>(N = 270) | Total<br>(N = 544) |
|---|----------------------|----------------------|--------------------|
| Age                                       |                      |                      |                    |
| Age < 65                                  | 146 (53.3%)          | 147 (54.4%)          | 293 (53.9%)        |
| Age ≥ 65                                  | 128 (46.7%)          | 123 (45.6%)          | 251 (46.1%)        |
| Mean (Range)                              | 56.0 (18.0, 85.0)    | 55.8 (18.0, 85.0)    | 55.9 (18.0, 85.0)  |
| BMI                                       |                      |                      |                    |
| Mean ± SD                                 | 30.7 ± 6.8           | 30.1 ± 7.2           | 30.4 ± 7.0         |
| Sex                                       |                      |                      |                    |
| Female                                    | 153 (55.8%)          | 155 (57.4%)          | 308 (56.6%)        |
| Male                                      | 121 (44.2%)          | 115 (42.6%)          | 236 (43.4%)        |
| Race                                      |                      |                      |                    |
| White Non-Hispanic                        | 125 (49.8%)          | 121 (49.0%)          | 246 (49.4%)        |
| Black or African American                 | 52 (20.7%)           | 60 (24.3%)           | 112 (22.5%)        |
| Asian                                     | 24 (9.6%)            | 13 (5.3%)            | 37 (7.4%)          |
| American Indian or Alaska Native          | 6 (2.4%)             | 4 (1.6%)             | 10 (2.0%)          |
| Native Hawaiian or Other Pacific Islander | 5 (2.0%)             | 1 (0.4%)             | 6 (1.2%)           |
| Multiracial                               | 12 (4.8%)            | 19 (7.7%)            | 31 (6.2%)          |
| Other                                     | 7 (2.8%)             | 5 (2.0%)             | 12 (2.4%)          |
| Not reported and unknown                  | 20 (8.0%)            | 24 (9.7%)            | 44 (8.8%)          |
| Communities of Color                      | 120 (49.0%)          | 111 (47.8%)          | 231 (48.4%)        |
| Hispanic or Latino ethnicity              |                      |                      |                    |
| Hispanic or Latino                        | 35 (12.8%)           | 38 (14.1%)           | 73 (13.4%)         |
| Not Hispanic or Latino                    | 217 (79.2%)          | 214 (79.3%)          | 431 (79.2%)        |
| Not reported and unknown                  | 22 (8.0%)            | 18 (6.7%)            | 40 (7.4%)          |
| Risk for Severe Covid-19                  |                      |                      |                    |
| At-risk                                   | 125 (45.6%)          | 123 (45.6%)          | 248 (45.6%)        |
| Not at-risk                               | 149 (54.4%)          | 147 (54.4%)          | 296 (54.4%)        |
| Age, Risk for Severe Covid-19             |                      |                      |                    |
| Age ≥ 65                                  | 128 (46.7%)          | 123 (45.6%)          | 251 (46.1%)        |
| Age < 65 At-risk                          | 73 (26.6%)           | 75 (27.8%)           | 148 (27.2%)        |
| Age < 65 Not at-risk                      | 73 (26.6%)           | 72 (26.7%)           | 145 (26.7%)        |

This table summarises the random subcohort, which was randomly sampled from the per-protocol individuals without a COVID failure event < 7 days post Day 57. The sampling was stratified by the key baseline covariates: assigned treatment arm, baseline SARS-CoV-2 status (defined by serostatus and possibly also NAAT and/or RNA PCR testing), any additional important demographic factors such as the randomization strata (e.g., defined by age and/or co-morbidities).

Table 3a. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by All participants

| Group            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| All participants |        |         |                     |                        |     |  |  |  |
|                  | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) |
|                  | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) |
|                  | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   |
|                  | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   |
|                  | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           |
|                  | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           |
|                  | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   |
|                  | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 270 | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   |
|                  | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) |
|                  | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 13295/13295 = 100.0%<br>(100.0%, 100.0%) |
|                  | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   |
|                  | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   | 1432/1432 = 100.0%<br>(100.0%, 100.0%)   |
|                  | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 76.3/13359 = 0.6%<br>(0.1%, 4.0%)        | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           |
|                  | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           | 0/13359 = 0.0%<br>(0.0%, 0.0%)           |
|                  | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   | 1357/1357 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|-------|--------|---------|---------------------|------------------------|-----|--|--|--|
|       | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 270 | 1357/1357 = 100.0%<br>(100.0%, 100.0%) | 1357/1357 = 100.0%<br>(100.0%, 100.0%) | 1357/1357 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3b. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Age

| Group      | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| <b>Age</b> |        |         |                     |                        |     |  |  |  |
| Age < 65   | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65   | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65   | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65   | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65   | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           |
| Age < 65   | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           |
| Age < 65   | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65   | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65   | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65   | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) | 10518/10518 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65   | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65   | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   | 1145/1145 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65   | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 76.3/10234 = 0.7%<br>(0.1%, 5.3%)        | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           |
| Age < 65   | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           | 0/10234 = 0.0%<br>(0.0%, 0.0%)           |
| Age < 65   | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   | 1098/1098 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|----------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65 | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 1098/1098 = 100.0%<br>(100.0%, 100.0%) | 1098/1098 = 100.0%<br>(100.0%, 100.0%) | 1098/1098 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 259/259 = 100.0%<br>(100.0%, 100.0%)   | 259/259 = 100.0%<br>(100.0%, 100.0%)   | 259/259 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 259/259 = 100.0%<br>(100.0%, 100.0%)   | 259/259 = 100.0%<br>(100.0%, 100.0%)   | 259/259 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) | 2777/2777 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          | 0/3125 = 0.0%<br>(0.0%, 0.0%)          |

(continued)

| Group    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                            | % Greater than 2xLLOD                | % Greater than 4xLLOD                |
|----------|--------|---------|---------------------|------------------------|-----|--------------------------------------|--------------------------------------|--------------------------------------|
| Age ≥ 65 | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 259/259 = 100.0%<br>(100.0%, 100.0%) | 259/259 = 100.0%<br>(100.0%, 100.0%) | 259/259 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 259/259 = 100.0%<br>(100.0%, 100.0%) | 259/259 = 100.0%<br>(100.0%, 100.0%) | 259/259 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3c. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Risk for Severe Covid-19

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|--------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Risk for Severe Covid-19 |        |         |                     |                        |     |  |  |  |
| At-risk                  | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) |
| At-risk                  | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) |
| At-risk                  | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            |
| At-risk                  | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            |
| At-risk                  | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) |
| At-risk                  | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) | 3736.6/3736.6 = 100.0%<br>(100.0%, 100.0%) |
| At-risk                  | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 76.3/4096.4 = 1.9%<br>(0.2%, 12.6%)        | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            |
| At-risk                  | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            |
| At-risk                  | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| At-risk     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   | 331.2/331.2 = 100.0%<br>(100.0%, 100.0%)   |
| Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) | 9558.4/9558.4 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) |
| Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) | 1025.8/1025.8 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3d. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Age, Risk for Severe Covid-19

| Group                         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|-------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age, Risk for Severe Covid-19 |        |         |                     |                        |     |  |  |  |
| Age < 65 At-risk              | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 At-risk              | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 At-risk              | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 At-risk              | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 At-risk              | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 At-risk              | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 At-risk              | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 At-risk              | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 At-risk              | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 At-risk              | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) | 2279/2279 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 At-risk              | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|----------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65 At-risk     | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   | 248/248 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 At-risk     | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 76.3/2454 = 3.1%<br>(0.4%, 20.6%)      | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 At-risk     | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          | 0/2454 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 At-risk     | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 At-risk     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   | 226/226 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 8239/8239 = 100.0%<br>(100.0%, 100.0%) | 8239/8239 = 100.0%<br>(100.0%, 100.0%) | 8239/8239 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 8239/8239 = 100.0%<br>(100.0%, 100.0%) | 8239/8239 = 100.0%<br>(100.0%, 100.0%) | 8239/8239 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 897/897 = 100.0%<br>(100.0%, 100.0%)   | 897/897 = 100.0%<br>(100.0%, 100.0%)   | 897/897 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 897/897 = 100.0%<br>(100.0%, 100.0%)   | 897/897 = 100.0%<br>(100.0%, 100.0%)   | 897/897 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 0/7780 = 0.0%<br>(0.0%, 0.0%)          | 0/7780 = 0.0%<br>(0.0%, 0.0%)          | 0/7780 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 0/7780 = 0.0%<br>(0.0%, 0.0%)          | 0/7780 = 0.0%<br>(0.0%, 0.0%)          | 0/7780 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 872/872 = 100.0%<br>(100.0%, 100.0%)   | 872/872 = 100.0%<br>(100.0%, 100.0%)   | 872/872 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|----------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 872/872 = 100.0%<br>(100.0%, 100.0%)       | 872/872 = 100.0%<br>(100.0%, 100.0%)       | 872/872 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 8239/8239 = 100.0%<br>(100.0%, 100.0%)     | 8239/8239 = 100.0%<br>(100.0%, 100.0%)     | 8239/8239 = 100.0%<br>(100.0%, 100.0%)     |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 8239/8239 = 100.0%<br>(100.0%, 100.0%)     | 8239/8239 = 100.0%<br>(100.0%, 100.0%)     | 8239/8239 = 100.0%<br>(100.0%, 100.0%)     |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 897/897 = 100.0%<br>(100.0%, 100.0%)       | 897/897 = 100.0%<br>(100.0%, 100.0%)       | 897/897 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 897/897 = 100.0%<br>(100.0%, 100.0%)       | 897/897 = 100.0%<br>(100.0%, 100.0%)       | 897/897 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 0/7780 = 0.0%<br>(0.0%, 0.0%)              | 0/7780 = 0.0%<br>(0.0%, 0.0%)              | 0/7780 = 0.0%<br>(0.0%, 0.0%)              |
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 0/7780 = 0.0%<br>(0.0%, 0.0%)              | 0/7780 = 0.0%<br>(0.0%, 0.0%)              | 0/7780 = 0.0%<br>(0.0%, 0.0%)              |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 872/872 = 100.0%<br>(100.0%, 100.0%)       | 872/872 = 100.0%<br>(100.0%, 100.0%)       | 872/872 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 872/872 = 100.0%<br>(100.0%, 100.0%)       | 872/872 = 100.0%<br>(100.0%, 100.0%)       | 872/872 = 100.0%<br>(100.0%, 100.0%)       |
| Age ≥ 65 At-risk     | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 At-risk     | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 At-risk     | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age ≥ 65 At-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 At-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 At-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 At-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 At-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 At-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 At-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) | 1457.6/1457.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 At-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 At-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 At-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 At-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 At-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|----------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age ≥ 65 At-risk     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76  | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76  | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76  | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|----------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Age ≥ 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76 | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%) | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%) | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39 | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39 | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75 | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%) | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%) | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75 | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%) | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%) | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3e. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Sex

| Group      | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| <b>Sex</b> |        |         |                     |                        |     |  |  |  |
| Male       | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) |
| Male       | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) |
| Male       | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   |
| Male       | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   |
| Male       | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            |
| Male       | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            |
| Male       | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   |
| Male       | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   |
| Male       | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) |
| Male       | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) | 5298.6/5298.6 = 100.0%<br>(100.0%, 100.0%) |
| Male       | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   |
| Male       | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%)   |
| Male       | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 76.3/4771.7 = 1.6%<br>(0.2%, 11.0%)        | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            |
| Male       | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)            |
| Male       | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|--------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Male   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   | 529.2/529.2 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) |
| Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) |
| Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            |
| Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            |
| Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%)   | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%)   | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%)   | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%)   | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) |
| Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) | 7996.4/7996.4 = 100.0%<br>(100.0%, 100.0%) |
| Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%)   |
| Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            |
| Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|--------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%) | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%) | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%) |
| Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%) | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%) | 827.8/827.8 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3f. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Age, sex

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-----------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age, sex        |        |         |                     |                        |     |  |  |  |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) | 6524.4/6524.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-----------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65 Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   | 673.1/673.1 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male   | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Male   | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Male   | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male   | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male   | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Male   | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Male   | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male   | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male   | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|---------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65 Male | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) | 3993.6/3993.6 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Male | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 76.3/3045.2 = 2.5%<br>(0.3%, 17.6%)        | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Male | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Male | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Male | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   | 424.9/424.9 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Male | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 1305/1305 = 100.0%<br>(100.0%, 100.0%)     | 1305/1305 = 100.0%<br>(100.0%, 100.0%)     | 1305/1305 = 100.0%<br>(100.0%, 100.0%)     |
| Age ≥ 65 Male | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 1305/1305 = 100.0%<br>(100.0%, 100.0%)     | 1305/1305 = 100.0%<br>(100.0%, 100.0%)     | 1305/1305 = 100.0%<br>(100.0%, 100.0%)     |
| Age ≥ 65 Male | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%)   | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%)   | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Male | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%)   | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%)   | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Male | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 Male | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65 Male | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%)   | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%)   | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Male | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%)   | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%)   | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|-----------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age ≥ 65 Male   | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 1305/1305 = 100.0%<br>(100.0%, 100.0%)   | 1305/1305 = 100.0%<br>(100.0%, 100.0%)   | 1305/1305 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Male   | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 1305/1305 = 100.0%<br>(100.0%, 100.0%)   | 1305/1305 = 100.0%<br>(100.0%, 100.0%)   | 1305/1305 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Male   | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Male   | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Male   | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Male   | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Male   | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Male   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74  | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74  | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35  | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35  | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|-----------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age ≥ 65 Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   | 1472/1472 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65 Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74  | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74  | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35  | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35  | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3g. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Hispanic or Latino ethnicity

| Group                        | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Hispanic or Latino ethnicity |        |         |                     |                        |     |  |  |  |
| Hispanic or Latino           | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) |
| Hispanic or Latino           | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) |
| Hispanic or Latino           | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   |
| Hispanic or Latino           | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   |
| Hispanic or Latino           | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)            |
| Hispanic or Latino           | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)            |
| Hispanic or Latino           | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)   | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)   | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)   |
| Hispanic or Latino           | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)   | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)   | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)   |
| Hispanic or Latino           | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) |
| Hispanic or Latino           | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) | 1363.4/1363.4 = 100.0%<br>(100.0%, 100.0%) |
| Hispanic or Latino           | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                    | % Greater than 2xLLOD                        | % Greater than 4xLLOD                        |
|------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Hispanic or Latino     | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)     | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)     | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%)     |
| Hispanic or Latino     | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)              | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)              | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)              |
| Hispanic or Latino     | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)              | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)              | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)              |
| Hispanic or Latino     | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)     | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)     | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)     |
| Hispanic or Latino     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)     | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)     | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%)     |
| Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) |
| Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) |
| Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   |
| Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   |
| Not Hispanic or Latino | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             |
| Not Hispanic or Latino | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             |
| Not Hispanic or Latino | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                    | % Greater than 2xLLOD                        | % Greater than 4xLLOD                        |
|--------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Not Hispanic or Latino   | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   |
| Not Hispanic or Latino   | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) |
| Not Hispanic or Latino   | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) | 10481.2/10481.2 = 100.0%<br>(100.0%, 100.0%) |
| Not Hispanic or Latino   | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   |
| Not Hispanic or Latino   | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%)   |
| Not Hispanic or Latino   | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 76.3/10828.8 = 0.7%<br>(0.1%, 4.9%)          | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             |
| Not Hispanic or Latino   | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)             |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   | 1121.8/1121.8 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88  | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%)   | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%)   | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88  | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%)   | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%)   | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22  | 124/124 = 100.0%<br>(100.0%, 100.0%)         | 124/124 = 100.0%<br>(100.0%, 100.0%)         | 124/124 = 100.0%<br>(100.0%, 100.0%)         |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|--------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22 | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13 | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88 | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88 | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22 | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22 | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13 | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|--------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%) | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%) | 101.5/101.5 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3h. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Race

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|--------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| <b>Race</b>        |        |         |                     |                        |     |  |  |  |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|---------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| White Non-Hispanic        | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%)   | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%)   | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic        | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 76.3/6586.8 = 1.2%<br>(0.2%, 8.1%)         | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)            | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)            |
| White Non-Hispanic        | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)            | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)            | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)            |
| White Non-Hispanic        | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%)   | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%)   | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic        | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%)   | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%)   | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) |
| Black or African American | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) |
| Black or African American | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|---------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Black or African American | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            |
| Black or African American | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%)   | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%)   | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%)   | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%)   | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) |
| Black or African American | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) | 2012.2/2012.2 = 100.0%<br>(100.0%, 100.0%) |
| Black or African American | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%)   |
| Black or African American | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            |
| Black or African American | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|---------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Black or African American | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60 | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%) | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%) | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%) |
| Black or African American | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60 | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%) | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%) | 265.1/265.1 = 100.0%<br>(100.0%, 100.0%) |
| Asian                     | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) |
| Asian                     | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) |
| Asian                     | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                     | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                     | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           |
| Asian                     | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           |
| Asian                     | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                     | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                     | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) |
| Asian                     | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) | 673.6/673.6 = 100.0%<br>(100.0%, 100.0%) |
| Asian                     | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                     | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|----------------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Asian                            | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           |
| Asian                            | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           |
| Asian                            | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                            | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   | 48.4/48.4 = 100.0%<br>(100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) |
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6  | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5  | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5  | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                             | % Greater than 2xLLOD                 | % Greater than 4xLLOD                 |
|----------------------------------|--------|---------|---------------------|------------------------|----|---------------------------------------|---------------------------------------|---------------------------------------|
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4  | 15.3/15.3 = 100.0%                    | 15.3/15.3 = 100.0%                    | 15.3/15.3 = 100.0%                    |
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4  | 15.3/15.3 = 100.0%                    | 15.3/15.3 = 100.0%                    | 15.3/15.3 = 100.0%                    |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 151.4/151.4 = 100.0% (100.0%, 100.0%) | 151.4/151.4 = 100.0% (100.0%, 100.0%) | 151.4/151.4 = 100.0% (100.0%, 100.0%) |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 151.4/151.4 = 100.0% (100.0%, 100.0%) | 151.4/151.4 = 100.0% (100.0%, 100.0%) | 151.4/151.4 = 100.0% (100.0%, 100.0%) |
| American Indian or Alaska Native | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 31.1/31.1 = 100.0% (100.0%, 100.0%)   | 31.1/31.1 = 100.0% (100.0%, 100.0%)   | 31.1/31.1 = 100.0% (100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6  | 31.1/31.1 = 100.0% (100.0%, 100.0%)   | 31.1/31.1 = 100.0% (100.0%, 100.0%)   | 31.1/31.1 = 100.0% (100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5  | 0/247.2 = 0.0% (0.0%, 0.0%)           | 0/247.2 = 0.0% (0.0%, 0.0%)           | 0/247.2 = 0.0% (0.0%, 0.0%)           |
| American Indian or Alaska Native | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5  | 0/247.2 = 0.0% (0.0%, 0.0%)           | 0/247.2 = 0.0% (0.0%, 0.0%)           | 0/247.2 = 0.0% (0.0%, 0.0%)           |
| American Indian or Alaska Native | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4  | 15.3/15.3 = 100.0%                    | 15.3/15.3 = 100.0%                    | 15.3/15.3 = 100.0%                    |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|---|--------|---------|---------------------|------------------------|----|--|--|--|
| American Indian or Alaska Native          | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4  | 15.3/15.3 = 100.0%                     | 15.3/15.3 = 100.0%                     | 15.3/15.3 = 100.0%                     |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5  | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1  | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1  | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|---|--------|---------|---------------------|------------------------|----|--|--|--|
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1  | 2.5/2.5 = 100.0%                       | 2.5/2.5 = 100.0%                       | 2.5/2.5 = 100.0%                       |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1  | 2.5/2.5 = 100.0%                       | 2.5/2.5 = 100.0%                       | 2.5/2.5 = 100.0%                       |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5  | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1  | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|---|--------|---------|---------------------|------------------------|----|--|--|--|
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1  | 0/28.8 = 0.0%                            | 0/28.8 = 0.0%                            | 0/28.8 = 0.0%                            |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1  | 2.5/2.5 = 100.0%                         | 2.5/2.5 = 100.0%                         | 2.5/2.5 = 100.0%                         |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1  | 2.5/2.5 = 100.0%                         | 2.5/2.5 = 100.0%                         | 2.5/2.5 = 100.0%                         |
| Multiracial                               | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) |
| Multiracial                               | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) |
| Multiracial                               | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial                               | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial                               | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             |
| Multiracial                               | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             |
| Multiracial                               | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial                               | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial                               | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|-------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Multiracial | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) | 498.5/498.5 = 100.0%<br>(100.0%, 100.0%) |
| Multiracial | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             |
| Multiracial | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             | 0/554 = 0.0%<br>(0.0%, 0.0%)             |
| Multiracial | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   |
| Multiracial | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%)   |
| Other       | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) |
| Other       | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) |
| Other       | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   |
| Other       | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   |
| Other       | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 0/232.6 = 0.0%                           | 0/232.6 = 0.0%                           | 0/232.6 = 0.0%                           |
| Other       | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 0/232.6 = 0.0%                           | 0/232.6 = 0.0%                           | 0/232.6 = 0.0%                           |
| Other       | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   |
| Other       | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   |
| Other       | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|--------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Other                    | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%)   | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%)   | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%)   |
| Other                    | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     |
| Other                    | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     |
| Other                    | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 0/232.6 = 0.0%                             | 0/232.6 = 0.0%                             | 0/232.6 = 0.0%                             |
| Other                    | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 0/232.6 = 0.0%                             | 0/232.6 = 0.0%                             | 0/232.6 = 0.0%                             |
| Other                    | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     |
| Other                    | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|--------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   | 165.4/165.4 = 100.0%<br>(100.0%, 100.0%)   |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3i. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Underrepresented minority status

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|----------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Underrepresented minority status |        |         |                     |                        |     |  |  |  |
| Communities of Color             | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) |
| Communities of Color             | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) |
| Communities of Color             | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 462/462 = 100.0%<br>(100.0%, 100.0%)   | 462/462 = 100.0%<br>(100.0%, 100.0%)   | 462/462 = 100.0%<br>(100.0%, 100.0%)   |
| Communities of Color             | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 462/462 = 100.0%<br>(100.0%, 100.0%)   | 462/462 = 100.0%<br>(100.0%, 100.0%)   | 462/462 = 100.0%<br>(100.0%, 100.0%)   |
| Communities of Color             | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 0/4319 = 0.0%<br>(0.0%, 0.0%)          | 0/4319 = 0.0%<br>(0.0%, 0.0%)          | 0/4319 = 0.0%<br>(0.0%, 0.0%)          |
| Communities of Color             | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 0/4319 = 0.0%<br>(0.0%, 0.0%)          | 0/4319 = 0.0%<br>(0.0%, 0.0%)          | 0/4319 = 0.0%<br>(0.0%, 0.0%)          |
| Communities of Color             | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 439/439 = 100.0%<br>(100.0%, 100.0%)   | 439/439 = 100.0%<br>(100.0%, 100.0%)   | 439/439 = 100.0%<br>(100.0%, 100.0%)   |
| Communities of Color             | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 439/439 = 100.0%<br>(100.0%, 100.0%)   | 439/439 = 100.0%<br>(100.0%, 100.0%)   | 439/439 = 100.0%<br>(100.0%, 100.0%)   |
| Communities of Color             | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) |
| Communities of Color             | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) | 4289/4289 = 100.0%<br>(100.0%, 100.0%) |
| Communities of Color             | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 462/462 = 100.0%<br>(100.0%, 100.0%)   | 462/462 = 100.0%<br>(100.0%, 100.0%)   | 462/462 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|----------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Communities of Color | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 462/462 = 100.0%<br>(100.0%, 100.0%)     | 462/462 = 100.0%<br>(100.0%, 100.0%)     | 462/462 = 100.0%<br>(100.0%, 100.0%)     |
| Communities of Color | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 0/4319 = 0.0%<br>(0.0%, 0.0%)            | 0/4319 = 0.0%<br>(0.0%, 0.0%)            | 0/4319 = 0.0%<br>(0.0%, 0.0%)            |
| Communities of Color | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 0/4319 = 0.0%<br>(0.0%, 0.0%)            | 0/4319 = 0.0%<br>(0.0%, 0.0%)            | 0/4319 = 0.0%<br>(0.0%, 0.0%)            |
| Communities of Color | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 439/439 = 100.0%<br>(100.0%, 100.0%)     | 439/439 = 100.0%<br>(100.0%, 100.0%)     | 439/439 = 100.0%<br>(100.0%, 100.0%)     |
| Communities of Color | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 439/439 = 100.0%<br>(100.0%, 100.0%)     | 439/439 = 100.0%<br>(100.0%, 100.0%)     | 439/439 = 100.0%<br>(100.0%, 100.0%)     |
| White Non-Hispanic   | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic   | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic   | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic   | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic   | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic   | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic   | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|--------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   | 6597/6597 = 100.0%<br>(100.0%, 100.0%)   |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 76.3/6586.8 = 1.2%<br>(0.2%, 8.1%)       | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) | 666.4/666.4 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 3j. Percentage of responders, and participants with concentrations  $\geq 2 \times$  LLOD or  $\geq 4 \times$  LLOD for binding antibody markers by Age, Underrepresented minority status

| Group                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                              | % Greater than 2xLLOD                  | % Greater than 4xLLOD                  |
|---------------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age, Underrepresented minority status |        |         |                     |                        |     |  |  |  |
| Age < 65 Communities of Color         | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 3386/3386 = 100.0%<br>(100.0%, 100.0%) | 3386/3386 = 100.0%<br>(100.0%, 100.0%) | 3386/3386 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Communities of Color         | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 3386/3386 = 100.0%<br>(100.0%, 100.0%) | 3386/3386 = 100.0%<br>(100.0%, 100.0%) | 3386/3386 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Communities of Color         | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 375/375 = 100.0%<br>(100.0%, 100.0%)   | 375/375 = 100.0%<br>(100.0%, 100.0%)   | 375/375 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Communities of Color         | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 375/375 = 100.0%<br>(100.0%, 100.0%)   | 375/375 = 100.0%<br>(100.0%, 100.0%)   | 375/375 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Communities of Color         | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 0/3281 = 0.0%<br>(0.0%, 0.0%)          | 0/3281 = 0.0%<br>(0.0%, 0.0%)          | 0/3281 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Communities of Color         | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 0/3281 = 0.0%<br>(0.0%, 0.0%)          | 0/3281 = 0.0%<br>(0.0%, 0.0%)          | 0/3281 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Communities of Color         | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 361/361 = 100.0%<br>(100.0%, 100.0%)   | 361/361 = 100.0%<br>(100.0%, 100.0%)   | 361/361 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65 Communities of Color         | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 361/361 = 100.0%<br>(100.0%, 100.0%)   | 361/361 = 100.0%<br>(100.0%, 100.0%)   | 361/361 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-----------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65<br>Communities of Color  | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 3386/3386 = 100.0%<br>(100.0%, 100.0%)     | 3386/3386 = 100.0%<br>(100.0%, 100.0%)     | 3386/3386 = 100.0%<br>(100.0%, 100.0%)     |
| Age < 65<br>Communities of Color  | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 3386/3386 = 100.0%<br>(100.0%, 100.0%)     | 3386/3386 = 100.0%<br>(100.0%, 100.0%)     | 3386/3386 = 100.0%<br>(100.0%, 100.0%)     |
| Age < 65<br>Communities of Color  | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 375/375 = 100.0%<br>(100.0%, 100.0%)       | 375/375 = 100.0%<br>(100.0%, 100.0%)       | 375/375 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65<br>Communities of Color  | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 375/375 = 100.0%<br>(100.0%, 100.0%)       | 375/375 = 100.0%<br>(100.0%, 100.0%)       | 375/375 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65<br>Communities of Color  | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 0/3281 = 0.0%<br>(0.0%, 0.0%)              | 0/3281 = 0.0%<br>(0.0%, 0.0%)              | 0/3281 = 0.0%<br>(0.0%, 0.0%)              |
| Age < 65<br>Communities of Color  | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 0/3281 = 0.0%<br>(0.0%, 0.0%)              | 0/3281 = 0.0%<br>(0.0%, 0.0%)              | 0/3281 = 0.0%<br>(0.0%, 0.0%)              |
| Age < 65<br>Communities of Color  | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 361/361 = 100.0%<br>(100.0%, 100.0%)       | 361/361 = 100.0%<br>(100.0%, 100.0%)       | 361/361 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65<br>Communities of Color  | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 361/361 = 100.0%<br>(100.0%, 100.0%)       | 361/361 = 100.0%<br>(100.0%, 100.0%)       | 361/361 = 100.0%<br>(100.0%, 100.0%)       |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-----------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%)   | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%)   | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59  | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%)   | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%)   | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31  | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)            | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)            | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31  | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)            | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)            | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%)   | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%)   | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%)   | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%)   | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%)   |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) | 5217.3/5217.3 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|-----------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59  | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31  | 76.3/4988.2 = 1.5%<br>(0.2%, 11.0%)      | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31  | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%) | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%) | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%) | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%) | 517.6/517.6 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>Communities of Color  | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 903/903 = 100.0%<br>(100.0%, 100.0%)     | 903/903 = 100.0%<br>(100.0%, 100.0%)     | 903/903 = 100.0%<br>(100.0%, 100.0%)     |
| Age ≥ 65<br>Communities of Color  | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 903/903 = 100.0%<br>(100.0%, 100.0%)     | 903/903 = 100.0%<br>(100.0%, 100.0%)     | 903/903 = 100.0%<br>(100.0%, 100.0%)     |
| Age ≥ 65<br>Communities of Color  | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 87/87 = 100.0%<br>(100.0%, 100.0%)       | 87/87 = 100.0%<br>(100.0%, 100.0%)       | 87/87 = 100.0%<br>(100.0%, 100.0%)       |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                            | % Greater than 2xLLOD                | % Greater than 4xLLOD                |
|----------------------------------|--------|---------|---------------------|------------------------|-----|--------------------------------------|--------------------------------------|--------------------------------------|
| Age ≥ 65<br>Communities of Color | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 87/87 = 100.0%<br>(100.0%, 100.0%)   | 87/87 = 100.0%<br>(100.0%, 100.0%)   | 87/87 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>Communities of Color | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 0/1038 = 0.0%<br>(0.0%, 0.0%)        | 0/1038 = 0.0%<br>(0.0%, 0.0%)        | 0/1038 = 0.0%<br>(0.0%, 0.0%)        |
| Age ≥ 65<br>Communities of Color | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 0/1038 = 0.0%<br>(0.0%, 0.0%)        | 0/1038 = 0.0%<br>(0.0%, 0.0%)        | 0/1038 = 0.0%<br>(0.0%, 0.0%)        |
| Age ≥ 65<br>Communities of Color | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50  | 78/78 = 100.0%<br>(100.0%, 100.0%)   | 78/78 = 100.0%<br>(100.0%, 100.0%)   | 78/78 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>Communities of Color | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50  | 78/78 = 100.0%<br>(100.0%, 100.0%)   | 78/78 = 100.0%<br>(100.0%, 100.0%)   | 78/78 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>Communities of Color | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 903/903 = 100.0%<br>(100.0%, 100.0%) | 903/903 = 100.0%<br>(100.0%, 100.0%) | 903/903 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>Communities of Color | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 903/903 = 100.0%<br>(100.0%, 100.0%) | 903/903 = 100.0%<br>(100.0%, 100.0%) | 903/903 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>Communities of Color | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 87/87 = 100.0%<br>(100.0%, 100.0%)   | 87/87 = 100.0%<br>(100.0%, 100.0%)   | 87/87 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>Communities of Color | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 87/87 = 100.0%<br>(100.0%, 100.0%)   | 87/87 = 100.0%<br>(100.0%, 100.0%)   | 87/87 = 100.0%<br>(100.0%, 100.0%)   |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|----------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age ≥ 65<br>Communities of Color | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 0/1038 = 0.0%<br>(0.0%, 0.0%)              | 0/1038 = 0.0%<br>(0.0%, 0.0%)              | 0/1038 = 0.0%<br>(0.0%, 0.0%)              |
| Age ≥ 65<br>Communities of Color | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 0/1038 = 0.0%<br>(0.0%, 0.0%)              | 0/1038 = 0.0%<br>(0.0%, 0.0%)              | 0/1038 = 0.0%<br>(0.0%, 0.0%)              |
| Age ≥ 65<br>Communities of Color | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50  | 78/78 = 100.0%<br>(100.0%, 100.0%)         | 78/78 = 100.0%<br>(100.0%, 100.0%)         | 78/78 = 100.0%<br>(100.0%, 100.0%)         |
| Age ≥ 65<br>Communities of Color | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50  | 78/78 = 100.0%<br>(100.0%, 100.0%)         | 78/78 = 100.0%<br>(100.0%, 100.0%)         | 78/78 = 100.0%<br>(100.0%, 100.0%)         |
| Age ≥ 65<br>White Non-Hispanic   | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>White Non-Hispanic   | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>White Non-Hispanic   | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66  | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>White Non-Hispanic   | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66  | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>White Non-Hispanic   | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Responder                                  | % Greater than 2xLLOD                      | % Greater than 4xLLOD                      |
|-----------------------------------|--------|---------|---------------------|------------------------|-----|--|--|--|
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%)   | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%)   | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%)   | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%)   | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) | 1379.7/1379.7 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66  | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66  | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%)   |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Responder                                | % Greater than 2xLLOD                    | % Greater than 4xLLOD                    |
|-----------------------------------|--------|---------|---------------------|------------------------|----|--|--|--|
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60 | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60 | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) |

Binding Antibody Responders are defined as participants who had baseline values below the LLOD with detectable antibody concentration above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in antibody concentration.

Table 4a. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by All participants

| Group            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                               | % 2-Fold Rise                           | % 4-Fold Rise                           |
|------------------|--------|---------|---------------------|----------------------|-----|---|---|---|
| All participants |        |         |                     |                      |     |   |   |   |
|                  | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 914 | 11733.1/13295 = 88.3%<br>(84.7%, 91.0%) | 11787.2/13295 = 88.7%<br>(85.2%, 91.4%) | 10870.9/13295 = 81.8%<br>(77.9%, 85.1%) |
|                  | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 274 | 1383.1/1432 = 96.6%<br>(91.6%, 98.7%)   | 1383.1/1432 = 96.6%<br>(91.6%, 98.7%)   | 1287.8/1432 = 89.9%<br>(83.3%, 94.1%)   |
|                  | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 163 | 149.5/13359 = 1.1%<br>(0.3%, 3.8%)      | 149.5/13359 = 1.1%<br>(0.3%, 3.8%)      | 0/13359 = 0.0%<br>(0.0%, 0.0%)          |
|                  | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 270 | 1139.8/1357 = 84.0%<br>(76.8%, 89.3%)   | 1143.2/1357 = 84.2%<br>(77.0%, 89.5%)   | 906/1357 = 66.8%<br>(58.6%, 74.0%)      |
|                  | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 914 | 13159.4/13295 = 99.0%<br>(98.0%, 99.5%) | 13159.4/13295 = 99.0%<br>(98.0%, 99.5%) | 12955/13295 = 97.4%<br>(95.6%, 98.5%)   |
|                  | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 274 | 1432/1432 = 100.0%<br>(100.0%, 100.0%)  | 1432/1432 = 100.0%<br>(100.0%, 100.0%)  | 1432/1432 = 100.0%<br>(100.0%, 100.0%)  |
|                  | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 163 | 131.9/13359 = 1.0%<br>(0.3%, 3.0%)      | 131.9/13359 = 1.0%<br>(0.3%, 3.0%)      | 0/13359 = 0.0%<br>(0.0%, 0.0%)          |
|                  | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 270 | 1301.8/1357 = 95.9%<br>(90.6%, 98.3%)   | 1301.8/1357 = 95.9%<br>(90.6%, 98.3%)   | 1253.1/1357 = 92.3%<br>(86.0%, 95.9%)   |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4b. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age

| Group      | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                              | % 2-Fold Rise                          | % 4-Fold Rise                           |
|------------|--------|---------|---------------------|----------------------|-----|--|--|---|
| <b>Age</b> |        |         |                     |                      |     |  |  |   |
| Age < 65   | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 432 | 9050.2/10518 = 86.0%<br>(81.6%, 89.5%) | 9096.9/10518 = 86.5%<br>(82.1%, 89.9%) | 8317.2/10518 = 79.1%<br>(74.2%, 83.2%)  |
| Age < 65   | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 146 | 1103/1145 = 96.3%<br>(89.7%, 98.7%)    | 1103/1145 = 96.3%<br>(89.7%, 98.7%)    | 1010.3/1145 = 88.2%<br>(80.0%, 93.4%)   |
| Age < 65   | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 80  | 76.3/10234 = 0.7%<br>(0.1%, 5.3%)      | 76.3/10234 = 0.7%<br>(0.1%, 5.3%)      | 0/10234 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65   | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 147 | 896.3/1098 = 81.6%<br>(72.7%, 88.1%)   | 899.7/1098 = 81.9%<br>(73.1%, 88.4%)   | 682.7/1098 = 62.2%<br>(52.3%, 71.1%)    |
| Age < 65   | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 432 | 10405/10518 = 98.9%<br>(97.6%, 99.5%)  | 10405/10518 = 98.9%<br>(97.6%, 99.5%)  | 10226.7/10518 = 97.2%<br>(94.8%, 98.5%) |
| Age < 65   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 146 | 1145/1145 = 100.0%<br>(100.0%, 100.0%) | 1145/1145 = 100.0%<br>(100.0%, 100.0%) | 1145/1145 = 100.0%<br>(100.0%, 100.0%)  |
| Age < 65   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 80  | 43.1/10234 = 0.4%<br>(0.1%, 3.0%)      | 43.1/10234 = 0.4%<br>(0.1%, 3.0%)      | 0/10234 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 147 | 1042.8/1098 = 95.0%<br>(88.4%, 97.9%)  | 1042.8/1098 = 95.0%<br>(88.4%, 97.9%)  | 995.7/1098 = 90.7%<br>(82.9%, 95.1%)    |
| Age ≥ 65   | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 482 | 2682.9/2777 = 96.6%<br>(94.4%, 98.0%)  | 2690.3/2777 = 96.9%<br>(94.8%, 98.2%)  | 2553.6/2777 = 92.0%<br>(89.1%, 94.1%)   |
| Age ≥ 65   | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 128 | 280.1/287 = 97.6%<br>(92.6%, 99.3%)    | 280.1/287 = 97.6%<br>(92.6%, 99.3%)    | 277.5/287 = 96.7%<br>(91.3%, 98.8%)     |
| Age ≥ 65   | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 83  | 73.2/3125 = 2.3%<br>(0.5%, 9.5%)       | 73.2/3125 = 2.3%<br>(0.5%, 9.5%)       | 0/3125 = 0.0%<br>(0.0%, 0.0%)           |
| Age ≥ 65   | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 123 | 243.5/259 = 94.0%<br>(87.7%, 97.2%)    | 243.5/259 = 94.0%<br>(87.7%, 97.2%)    | 223.3/259 = 86.2%<br>(78.6%, 91.4%)     |
| Age ≥ 65   | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 482 | 2754.3/2777 = 99.2%<br>(97.7%, 99.7%)  | 2754.3/2777 = 99.2%<br>(97.7%, 99.7%)  | 2728.2/2777 = 98.2%<br>(96.4%, 99.1%)   |
| Age ≥ 65   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 128 | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)   | 287/287 = 100.0%<br>(100.0%, 100.0%)    |
| Age ≥ 65   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 83  | 88.8/3125 = 2.8%<br>(0.7%, 10.9%)      | 88.8/3125 = 2.8%<br>(0.7%, 10.9%)      | 0/3125 = 0.0%<br>(0.0%, 0.0%)           |

(continued)

| Group    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                            | % 2-Fold Rise                        | % 4-Fold Rise                       |
|----------|--------|---------|---------------------|----------------------|-----|--------------------------------------|--------------------------------------|-------------------------------------|
| Age ≥ 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 123 | 259/259 = 100.0%<br>(100.0%, 100.0%) | 259/259 = 100.0%<br>(100.0%, 100.0%) | 257.4/259 = 99.4%<br>(95.7%, 99.9%) |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4c. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Risk for Severe Covid-19

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                  | % 2-Fold Rise                              | % 4-Fold Rise                              |
|--------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Risk for Severe Covid-19 |        |         |                     |                      |     |  |  |  |
| At-risk                  | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 469 | 3353.3/3736.6 = 89.7%<br>(86.3%, 92.4%)    | 3360.6/3736.6 = 89.9%<br>(86.6%, 92.5%)    | 3035.3/3736.6 = 81.2%<br>(77.1%, 84.8%)    |
| At-risk                  | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 125 | 355.1/368.8 = 96.3%<br>(90.0%, 98.7%)      | 355.1/368.8 = 96.3%<br>(90.0%, 98.7%)      | 332.9/368.8 = 90.3%<br>(82.5%, 94.8%)      |
| At-risk                  | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 84  | 149.5/4096.4 = 3.6%<br>(1.0%, 12.0%)       | 149.5/4096.4 = 3.6%<br>(1.0%, 12.0%)       | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            |
| At-risk                  | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 123 | 284.5/331.2 = 85.9%<br>(78.4%, 91.1%)      | 287.9/331.2 = 86.9%<br>(79.6%, 91.9%)      | 248.5/331.2 = 75.0%<br>(66.5%, 82.0%)      |
| At-risk                  | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 469 | 3654.9/3736.6 = 97.8%<br>(95.6%, 98.9%)    | 3654.9/3736.6 = 97.8%<br>(95.6%, 98.9%)    | 3597.8/3736.6 = 96.3%<br>(93.7%, 97.8%)    |
| At-risk                  | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 125 | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   | 368.8/368.8 = 100.0%<br>(100.0%, 100.0%)   |
| At-risk                  | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 84  | 43.1/4096.4 = 1.1%<br>(0.1%, 7.4%)         | 43.1/4096.4 = 1.1%<br>(0.1%, 7.4%)         | 0/4096.4 = 0.0%<br>(0.0%, 0.0%)            |
| At-risk                  | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 123 | 322.9/331.2 = 97.5%<br>(92.2%, 99.2%)      | 322.9/331.2 = 97.5%<br>(92.2%, 99.2%)      | 317/331.2 = 95.7%<br>(89.9%, 98.2%)        |
| Not at-risk              | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 445 | 8379.9/9558.4 = 87.7%<br>(82.8%, 91.3%)    | 8426.5/9558.4 = 88.2%<br>(83.4%, 91.7%)    | 7835.6/9558.4 = 82.0%<br>(76.7%, 86.3%)    |
| Not at-risk              | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 149 | 1028/1063.2 = 96.7%<br>(89.2%, 99.0%)      | 1028/1063.2 = 96.7%<br>(89.2%, 99.0%)      | 954.9/1063.2 = 89.8%<br>(80.7%, 94.9%)     |
| Not at-risk              | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 79  | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)            |
| Not at-risk              | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 147 | 855.3/1025.8 = 83.4%<br>(73.8%, 89.9%)     | 855.3/1025.8 = 83.4%<br>(73.8%, 89.9%)     | 657.5/1025.8 = 64.1%<br>(53.6%, 73.4%)     |
| Not at-risk              | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 445 | 9504.5/9558.4 = 99.4%<br>(97.8%, 99.9%)    | 9504.5/9558.4 = 99.4%<br>(97.8%, 99.9%)    | 9357.2/9558.4 = 97.9%<br>(95.0%, 99.1%)    |
| Not at-risk              | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 149 | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) | 1063.2/1063.2 = 100.0%<br>(100.0%, 100.0%) |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                              | % 2-Fold Rise                          | % 4-Fold Rise                          |
|-------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 79  | 88.8/9262.6 = 1.0%<br>(0.2%, 3.7%)     | 88.8/9262.6 = 1.0%<br>(0.2%, 3.7%)     | 0/9262.6 = 0.0%<br>(0.0%, 0.0%)        |
| Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 147 | 978.9/1025.8 = 95.4%<br>(88.1%, 98.3%) | 978.9/1025.8 = 95.4%<br>(88.1%, 98.3%) | 936.2/1025.8 = 91.3%<br>(82.8%, 95.8%) |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4d. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age, Risk for Severe Covid-19

| Group                         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                             | % 2-Fold Rise                         | % 4-Fold Rise                         |
|-------------------------------|--------|---------|---------------------|----------------------|-----|---------------------------------------|---------------------------------------|---------------------------------------|
| Age, Risk for Severe Covid-19 |        |         |                     |                      |     |                                       |                                       |                                       |
| Age < 65 At-risk              | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 214 | 1967.1/2279 = 86.3%<br>(81.1%, 90.3%) | 1967.1/2279 = 86.3%<br>(81.1%, 90.3%) | 1729.6/2279 = 75.9%<br>(69.6%, 81.2%) |
| Age < 65 At-risk              | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 73  | 236.9/248 = 95.5%<br>(86.2%, 98.7%)   | 236.9/248 = 95.5%<br>(86.2%, 98.7%)   | 214.7/248 = 86.6%<br>(75.4%, 93.1%)   |
| Age < 65 At-risk              | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 40  | 76.3/2454 = 3.1%<br>(0.4%, 20.6%)     | 76.3/2454 = 3.1%<br>(0.4%, 20.6%)     | 0/2454 = 0.0%<br>(0.0%, 0.0%)         |
| Age < 65 At-risk              | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 75  | 186.7/226 = 82.6%<br>(72.4%, 89.6%)   | 190.1/226 = 84.1%<br>(74.3%, 90.7%)   | 160.7/226 = 71.1%<br>(59.9%, 80.2%)   |
| Age < 65 At-risk              | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 214 | 2219.9/2279 = 97.4%<br>(93.8%, 98.9%) | 2219.9/2279 = 97.4%<br>(93.8%, 98.9%) | 2181.6/2279 = 95.7%<br>(91.6%, 97.9%) |
| Age < 65 At-risk              | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 73  | 248/248 = 100.0%<br>(100.0%, 100.0%)  | 248/248 = 100.0%<br>(100.0%, 100.0%)  | 248/248 = 100.0%<br>(100.0%, 100.0%)  |
| Age < 65 At-risk              | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 40  | 43.1/2454 = 1.8%<br>(0.2%, 12.3%)     | 43.1/2454 = 1.8%<br>(0.2%, 12.3%)     | 0/2454 = 0.0%<br>(0.0%, 0.0%)         |
| Age < 65 At-risk              | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 75  | 217.6/226 = 96.3%<br>(88.7%, 98.9%)   | 217.6/226 = 96.3%<br>(88.7%, 98.9%)   | 211.8/226 = 93.7%<br>(85.3%, 97.4%)   |
| Age < 65 Not at-risk          | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 218 | 7083.2/8239 = 86.0%<br>(80.3%, 90.2%) | 7129.8/8239 = 86.5%<br>(81.0%, 90.7%) | 6587.7/8239 = 80.0%<br>(73.8%, 85.0%) |
| Age < 65 Not at-risk          | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 73  | 866.1/897 = 96.6%<br>(86.9%, 99.2%)   | 866.1/897 = 96.6%<br>(86.9%, 99.2%)   | 795.6/897 = 88.7%<br>(77.8%, 94.6%)   |
| Age < 65 Not at-risk          | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 40  | 0/7780 = 0.0%<br>(0.0%, 0.0%)         | 0/7780 = 0.0%<br>(0.0%, 0.0%)         | 0/7780 = 0.0%<br>(0.0%, 0.0%)         |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|----------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 72  | 709.6/872 = 81.4%<br>(70.1%, 89.1%)      | 709.6/872 = 81.4%<br>(70.1%, 89.1%)      | 522.1/872 = 59.9%<br>(47.7%, 70.9%)      |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 218 | 8185.1/8239 = 99.3%<br>(97.4%, 99.8%)    | 8185.1/8239 = 99.3%<br>(97.4%, 99.8%)    | 8045.2/8239 = 97.6%<br>(94.3%, 99.1%)    |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 73  | 897/897 = 100.0%<br>(100.0%, 100.0%)     | 897/897 = 100.0%<br>(100.0%, 100.0%)     | 897/897 = 100.0%<br>(100.0%, 100.0%)     |
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 40  | 0/7780 = 0.0%<br>(0.0%, 0.0%)            | 0/7780 = 0.0%<br>(0.0%, 0.0%)            | 0/7780 = 0.0%<br>(0.0%, 0.0%)            |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 72  | 825.1/872 = 94.6%<br>(86.0%, 98.1%)      | 825.1/872 = 94.6%<br>(86.0%, 98.1%)      | 783.9/872 = 89.9%<br>(79.8%, 95.2%)      |
| Age ≥ 65 At-risk     | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 255 | 1386.2/1457.6 = 95.1%<br>(91.4%, 97.3%)  | 1393.5/1457.6 = 95.6%<br>(92.0%, 97.6%)  | 1305.7/1457.6 = 89.6%<br>(85.0%, 92.9%)  |
| Age ≥ 65 At-risk     | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 52  | 118.2/120.8 = 97.8%<br>(85.4%, 99.7%)    | 118.2/120.8 = 97.8%<br>(85.4%, 99.7%)    | 118.2/120.8 = 97.8%<br>(85.4%, 99.7%)    |
| Age ≥ 65 At-risk     | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 44  | 73.2/1642.4 = 4.5%<br>(1.0%, 17.7%)      | 73.2/1642.4 = 4.5%<br>(1.0%, 17.7%)      | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 At-risk     | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 48  | 97.8/105.2 = 92.9%<br>(79.7%, 97.8%)     | 97.8/105.2 = 92.9%<br>(79.7%, 97.8%)     | 87.9/105.2 = 83.5%<br>(69.0%, 92.0%)     |
| Age ≥ 65 At-risk     | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 255 | 1434.9/1457.6 = 98.4%<br>(95.7%, 99.4%)  | 1434.9/1457.6 = 98.4%<br>(95.7%, 99.4%)  | 1416.2/1457.6 = 97.2%<br>(94.0%, 98.7%)  |
| Age ≥ 65 At-risk     | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 52  | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%) | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%) | 120.8/120.8 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 At-risk     | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 44  | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)          | 0/1642.4 = 0.0%<br>(0.0%, 0.0%)          |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                  | % 2-Fold Rise                              | % 4-Fold Rise                            |
|----------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age ≥ 65 At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 48  | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%)   | 105.2/105.2 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 227 | 1296.7/1319.4 = 98.3%<br>(95.3%, 99.4%)    | 1296.7/1319.4 = 98.3%<br>(95.3%, 99.4%)    | 1247.9/1319.4 = 94.6%<br>(90.5%, 97.0%)  |
| Age ≥ 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 76  | 161.9/166.2 = 97.4%<br>(89.6%, 99.4%)      | 161.9/166.2 = 97.4%<br>(89.6%, 99.4%)      | 159.3/166.2 = 95.8%<br>(87.3%, 98.7%)    |
| Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 39  | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)            | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 75  | 145.7/153.8 = 94.7%<br>(86.2%, 98.1%)      | 145.7/153.8 = 94.7%<br>(86.2%, 98.1%)      | 135.4/153.8 = 88.1%<br>(78.7%, 93.6%)    |
| Age ≥ 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 227 | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1319.4/1319.4 = 100.0%<br>(100.0%, 100.0%) | 1312/1319.4 = 99.4%<br>(96.1%, 99.9%)    |
| Age ≥ 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 76  | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%)   | 166.2/166.2 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 39  | 88.8/1482.6 = 6.0%<br>(1.4%, 22.0%)        | 88.8/1482.6 = 6.0%<br>(1.4%, 22.0%)        | 0/1482.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 75  | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   | 153.8/153.8 = 100.0%<br>(100.0%, 100.0%)   | 152.2/153.8 = 99.0%<br>(92.9%, 99.9%)    |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4e. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Sex

| Group      | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| <b>Sex</b> |        |         |                     |                      |     |  |  |  |
| Male       | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 395 | 4737.9/5298.6 = 89.4%<br>(83.8%, 93.2%)  | 4745.3/5298.6 = 89.6%<br>(83.9%, 93.4%)  | 4439.5/5298.6 = 83.8%<br>(77.6%, 88.5%)  |
| Male       | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 121 | 557.7/564.7 = 98.8%<br>(94.9%, 99.7%)    | 557.7/564.7 = 98.8%<br>(94.9%, 99.7%)    | 522.3/564.7 = 92.5%<br>(83.1%, 96.9%)    |
| Male       | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 76  | 105.1/4771.7 = 2.2%<br>(0.5%, 9.9%)      | 105.1/4771.7 = 2.2%<br>(0.5%, 9.9%)      | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)          |
| Male       | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 115 | 433.2/529.2 = 81.9%<br>(69.1%, 90.1%)    | 433.2/529.2 = 81.9%<br>(69.1%, 90.1%)    | 328.3/529.2 = 62.0%<br>(49.2%, 73.4%)    |
| Male       | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 395 | 5254.4/5298.6 = 99.2%<br>(97.9%, 99.7%)  | 5254.4/5298.6 = 99.2%<br>(97.9%, 99.7%)  | 5101.6/5298.6 = 96.3%<br>(91.7%, 98.4%)  |
| Male       | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 121 | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%) | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%) | 564.7/564.7 = 100.0%<br>(100.0%, 100.0%) |
| Male       | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 76  | 44.4/4771.7 = 0.9%<br>(0.1%, 6.6%)       | 44.4/4771.7 = 0.9%<br>(0.1%, 6.6%)       | 0/4771.7 = 0.0%<br>(0.0%, 0.0%)          |
| Male       | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 115 | 517/529.2 = 97.7%<br>(88.9%, 99.6%)      | 517/529.2 = 97.7%<br>(88.9%, 99.6%)      | 483.7/529.2 = 91.4%<br>(79.2%, 96.7%)    |
| Female     | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 519 | 6995.2/7996.4 = 87.5%<br>(82.6%, 91.1%)  | 7041.9/7996.4 = 88.1%<br>(83.3%, 91.6%)  | 6431.3/7996.4 = 80.4%<br>(75.1%, 84.8%)  |
| Female     | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 153 | 825.4/867.3 = 95.2%<br>(86.7%, 98.3%)    | 825.4/867.3 = 95.2%<br>(86.7%, 98.3%)    | 765.4/867.3 = 88.3%<br>(78.1%, 94.1%)    |
| Female     | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 87  | 44.4/8587.3 = 0.5%<br>(0.1%, 3.7%)       | 44.4/8587.3 = 0.5%<br>(0.1%, 3.7%)       | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)          |
| Female     | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 155 | 706.6/827.8 = 85.4%<br>(75.6%, 91.7%)    | 710/827.8 = 85.8%<br>(76.0%, 92.0%)      | 577.7/827.8 = 69.8%<br>(58.8%, 78.9%)    |
| Female     | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 519 | 7905/7996.4 = 98.9%<br>(97.2%, 99.5%)    | 7905/7996.4 = 98.9%<br>(97.2%, 99.5%)    | 7853.4/7996.4 = 98.2%<br>(96.6%, 99.1%)  |
| Female     | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 153 | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%) | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%) | 867.3/867.3 = 100.0%<br>(100.0%, 100.0%) |
| Female     | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 87  | 87.5/8587.3 = 1.0%<br>(0.2%, 4.1%)       | 87.5/8587.3 = 1.0%<br>(0.2%, 4.1%)       | 0/8587.3 = 0.0%<br>(0.0%, 0.0%)          |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                             | % 2-Fold Rise                         | % 4-Fold Rise                         |
|--------|--------|---------|---------------------|----------------------|-----|---------------------------------------|---------------------------------------|---------------------------------------|
| Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 155 | 784.7/827.8 = 94.8%<br>(86.4%, 98.1%) | 784.7/827.8 = 94.8%<br>(86.4%, 98.1%) | 769.4/827.8 = 93.0%<br>(84.0%, 97.1%) |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4f. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age, sex

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|-----------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age, sex        |        |         |                     |                      |     |  |  |  |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 269 | 5560.6/6524.4 = 85.2%<br>(79.3%, 89.7%)  | 5607.3/6524.4 = 85.9%<br>(80.1%, 90.3%)  | 5076.7/6524.4 = 77.8%<br>(71.3%, 83.2%)  |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 79  | 664.2/701.8 = 94.6%<br>(83.7%, 98.4%)    | 664.2/701.8 = 94.6%<br>(83.7%, 98.4%)    | 606.9/701.8 = 86.5%<br>(73.8%, 93.5%)    |
| Age < 65 Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 52  | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)          | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)          | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 83  | 561/673.1 = 83.3%<br>(71.3%, 91.0%)      | 564.4/673.1 = 83.8%<br>(71.8%, 91.4%)    | 437.7/673.1 = 65.0%<br>(51.8%, 76.3%)    |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 269 | 6437/6524.4 = 98.7%<br>(96.5%, 99.5%)    | 6437/6524.4 = 98.7%<br>(96.5%, 99.5%)    | 6411.4/6524.4 = 98.3%<br>(96.2%, 99.2%)  |
| Age < 65 Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 79  | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%) | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%) | 701.8/701.8 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 52  | 43.1/7188.8 = 0.6%<br>(0.1%, 4.4%)       | 43.1/7188.8 = 0.6%<br>(0.1%, 4.4%)       | 0/7188.8 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 83  | 630.1/673.1 = 93.6%<br>(83.3%, 97.7%)    | 630.1/673.1 = 93.6%<br>(83.3%, 97.7%)    | 616.4/673.1 = 91.6%<br>(80.5%, 96.6%)    |
| Age < 65 Male   | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 163 | 3489.6/3993.6 = 87.4%<br>(79.9%, 92.3%)  | 3489.6/3993.6 = 87.4%<br>(79.9%, 92.3%)  | 3240.5/3993.6 = 81.1%<br>(73.0%, 87.2%)  |
| Age < 65 Male   | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 67  | 438.8/443.2 = 99.0%<br>(93.0%, 99.9%)    | 438.8/443.2 = 99.0%<br>(93.0%, 99.9%)    | 403.4/443.2 = 91.0%<br>(79.0%, 96.5%)    |
| Age < 65 Male   | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 28  | 76.3/3045.2 = 2.5%<br>(0.3%, 17.6%)      | 76.3/3045.2 = 2.5%<br>(0.3%, 17.6%)      | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Male   | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 64  | 335.3/424.9 = 78.9%<br>(63.2%, 89.1%)    | 335.3/424.9 = 78.9%<br>(63.2%, 89.1%)    | 245/424.9 = 57.7%<br>(42.2%, 71.8%)      |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|-----------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age < 65 Male   | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 163 | 3968.1/3993.6 = 99.4%<br>(97.5%, 99.8%)  | 3968.1/3993.6 = 99.4%<br>(97.5%, 99.8%)  | 3815.3/3993.6 = 95.5%<br>(89.2%, 98.2%)  |
| Age < 65 Male   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 67  | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%) | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%) | 443.2/443.2 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65 Male   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 28  | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)          | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)          | 0/3045.2 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65 Male   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 64  | 412.7/424.9 = 97.1%<br>(86.1%, 99.5%)    | 412.7/424.9 = 97.1%<br>(86.1%, 99.5%)    | 379.3/424.9 = 89.3%<br>(74.3%, 96.0%)    |
| Age ≥ 65 Male   | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 232 | 1248.3/1305 = 95.7%<br>(91.9%, 97.7%)    | 1255.7/1305 = 96.2%<br>(92.6%, 98.1%)    | 1199/1305 = 91.9%<br>(87.3%, 94.9%)      |
| Age ≥ 65 Male   | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 54  | 118.9/121.5 = 97.9%<br>(85.5%, 99.7%)    | 118.9/121.5 = 97.9%<br>(85.5%, 99.7%)    | 118.9/121.5 = 97.9%<br>(85.5%, 99.7%)    |
| Age ≥ 65 Male   | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 48  | 28.8/1726.6 = 1.7%<br>(0.2%, 11.6%)      | 28.8/1726.6 = 1.7%<br>(0.2%, 11.6%)      | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Male   | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 51  | 97.9/104.4 = 93.8%<br>(81.3%, 98.1%)     | 97.9/104.4 = 93.8%<br>(81.3%, 98.1%)     | 83.3/104.4 = 79.8%<br>(65.3%, 89.2%)     |
| Age ≥ 65 Male   | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 232 | 1286.3/1305 = 98.6%<br>(95.4%, 99.6%)    | 1286.3/1305 = 98.6%<br>(95.4%, 99.6%)    | 1286.3/1305 = 98.6%<br>(95.4%, 99.6%)    |
| Age ≥ 65 Male   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 54  | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) | 121.5/121.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Male   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 48  | 44.4/1726.6 = 2.6%<br>(0.3%, 17.2%)      | 44.4/1726.6 = 2.6%<br>(0.3%, 17.2%)      | 0/1726.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65 Male   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 51  | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) | 104.4/104.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65 Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 250 | 1434.6/1472 = 97.5%<br>(94.3%, 98.9%)    | 1434.6/1472 = 97.5%<br>(94.3%, 98.9%)    | 1354.6/1472 = 92.0%<br>(87.8%, 94.9%)    |
| Age ≥ 65 Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 74  | 161.2/165.5 = 97.4%<br>(89.5%, 99.4%)    | 161.2/165.5 = 97.4%<br>(89.5%, 99.4%)    | 158.6/165.5 = 95.8%<br>(87.3%, 98.7%)    |
| Age ≥ 65 Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 35  | 44.4/1398.4 = 3.2%<br>(0.4%, 21.1%)      | 44.4/1398.4 = 3.2%<br>(0.4%, 21.1%)      | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|--------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age ≥ 65<br>Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 72  | 145.6/154.6 = 94.2%<br>(84.9%, 97.9%)    | 145.6/154.6 = 94.2%<br>(84.9%, 97.9%)    | 140/154.6 = 90.6%<br>(80.8%, 95.6%)      |
| Age ≥ 65<br>Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 250 | 1468/1472 = 99.7%<br>(98.1%, 100.0%)     | 1468/1472 = 99.7%<br>(98.1%, 100.0%)     | 1441.9/1472 = 98.0%<br>(95.0%, 99.2%)    |
| Age ≥ 65<br>Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 74  | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) | 165.5/165.5 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 35  | 44.4/1398.4 = 3.2%<br>(0.4%, 21.1%)      | 44.4/1398.4 = 3.2%<br>(0.4%, 21.1%)      | 0/1398.4 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65<br>Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 72  | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 154.6/154.6 = 100.0%<br>(100.0%, 100.0%) | 153.1/154.6 = 99.0%<br>(92.9%, 99.9%)    |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4g. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Hispanic or Latino ethnicity

| Group                        | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|------------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Hispanic or Latino ethnicity |        |         |                     |                      |     |  |  |  |
| Hispanic or Latino           | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 136 | 1226.3/1363.4 = 89.9%<br>(81.7%, 94.7%)  | 1226.3/1363.4 = 89.9%<br>(81.7%, 94.7%)  | 1109.8/1363.4 = 81.4%<br>(71.0%, 88.7%)  |
| Hispanic or Latino           | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 35  | 144/145.7 = 98.8%<br>(91.4%, 99.9%)      | 144/145.7 = 98.8%<br>(91.4%, 99.9%)      | 141.7/145.7 = 97.2%<br>(88.7%, 99.4%)    |
| Hispanic or Latino           | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 20  | 28.8/1237.6 = 2.3%<br>(0.3%, 17.1%)      | 28.8/1237.6 = 2.3%<br>(0.3%, 17.1%)      | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)          |
| Hispanic or Latino           | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 38  | 125.7/133.7 = 94.0%<br>(84.6%, 97.8%)    | 125.7/133.7 = 94.0%<br>(84.6%, 97.8%)    | 90/133.7 = 67.3%<br>(42.1%, 85.3%)       |
| Hispanic or Latino           | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 136 | 1328.6/1363.4 = 97.4%<br>(88.5%, 99.5%)  | 1328.6/1363.4 = 97.4%<br>(88.5%, 99.5%)  | 1328.6/1363.4 = 97.4%<br>(88.5%, 99.5%)  |
| Hispanic or Latino           | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 35  | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%) | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%) | 145.7/145.7 = 100.0%<br>(100.0%, 100.0%) |
| Hispanic or Latino           | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 20  | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1237.6 = 0.0%<br>(0.0%, 0.0%)          |
| Hispanic or Latino           | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 38  | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%) | 133.7/133.7 = 100.0%<br>(100.0%, 100.0%) | 129.7/133.7 = 97.0%<br>(87.6%, 99.3%)    |
| Not Hispanic or Latino       | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 690 | 9218.1/10481.2 = 87.9%<br>(83.8%, 91.2%) | 9272.1/10481.2 = 88.5%<br>(84.4%, 91.6%) | 8529.4/10481.2 = 81.4%<br>(76.8%, 85.2%) |
| Not Hispanic or Latino       | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 217 | 1119.5/1162.3 = 96.3%<br>(90.0%, 98.7%)  | 1119.5/1162.3 = 96.3%<br>(90.0%, 98.7%)  | 1030.9/1162.3 = 88.7%<br>(80.6%, 93.7%)  |
| Not Hispanic or Latino       | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 130 | 120.7/10828.8 = 1.1%<br>(0.3%, 4.6%)     | 120.7/10828.8 = 1.1%<br>(0.3%, 4.6%)     | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)         |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                  | % 2-Fold Rise                              | % 4-Fold Rise                              |
|--------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Not Hispanic or Latino   | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 214 | 941.9/1121.8 = 84.0%<br>(75.7%, 89.8%)     | 945.4/1121.8 = 84.3%<br>(76.0%, 90.1%)     | 743.9/1121.8 = 66.3%<br>(57.1%, 74.4%)     |
| Not Hispanic or Latino   | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 690 | 10380.4/10481.2 = 99.0%<br>(97.9%, 99.6%)  | 10380.4/10481.2 = 99.0%<br>(97.9%, 99.6%)  | 10269.3/10481.2 = 98.0%<br>(96.3%, 98.9%)  |
| Not Hispanic or Latino   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 217 | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%) | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%) | 1162.3/1162.3 = 100.0%<br>(100.0%, 100.0%) |
| Not Hispanic or Latino   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 130 | 87.5/10828.8 = 0.8%<br>(0.2%, 3.2%)        | 87.5/10828.8 = 0.8%<br>(0.2%, 3.2%)        | 0/10828.8 = 0.0%<br>(0.0%, 0.0%)           |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 214 | 1076.3/1121.8 = 95.9%<br>(89.7%, 98.5%)    | 1076.3/1121.8 = 95.9%<br>(89.7%, 98.5%)    | 1048.8/1121.8 = 93.5%<br>(86.3%, 97.0%)    |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 88  | 1288.7/1450.4 = 88.9%<br>(74.6%, 95.6%)    | 1288.7/1450.4 = 88.9%<br>(74.6%, 95.6%)    | 1231.7/1450.4 = 84.9%<br>(71.6%, 92.6%)    |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 22  | 119.6/124 = 96.5%<br>(75.1%, 99.6%)        | 119.6/124 = 96.5%<br>(75.1%, 99.6%)        | 115.2/124 = 92.9%<br>(75.0%, 98.3%)        |
| Not reported and unknown | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 13  | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            |
| Not reported and unknown | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 18  | 72.2/101.5 = 71.1%<br>(32.1%, 92.8%)       | 72.2/101.5 = 71.1%<br>(32.1%, 92.8%)       | 72.2/101.5 = 71.1%<br>(32.1%, 92.8%)       |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 88  | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) | 1450.4/1450.4 = 100.0%<br>(100.0%, 100.0%) | 1357.1/1450.4 = 93.6%<br>(77.2%, 98.4%)    |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 22  | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       | 124/124 = 100.0%<br>(100.0%, 100.0%)       |
| Not reported and unknown | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 13  | 44.4/1292.7 = 3.4%<br>(0.3%, 28.0%)        | 44.4/1292.7 = 3.4%<br>(0.3%, 28.0%)        | 0/1292.7 = 0.0%<br>(0.0%, 0.0%)            |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N  | Responder                            | % 2-Fold Rise                        | % 4-Fold Rise                        |
|--------------------------|--------|---------|---------------------|----------------------|----|--------------------------------------|--------------------------------------|--------------------------------------|
| Not reported and unknown | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 18 | 91.8/101.5 = 90.4%<br>(52.1%, 98.8%) | 91.8/101.5 = 90.4%<br>(52.1%, 98.8%) | 74.6/101.5 = 73.5%<br>(32.9%, 94.0%) |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4h. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Race

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|---------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| <b>Race</b>               |        |         |                     |                      |     |  |  |  |
| White Non-Hispanic        | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 362 | 5915.2/6597 = 89.7%<br>(84.2%, 93.4%)    | 5922.6/6597 = 89.8%<br>(84.3%, 93.5%)    | 5515.3/6597 = 83.6%<br>(77.6%, 88.3%)    |
| White Non-Hispanic        | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 125 | 733.3/773.8 = 94.8%<br>(85.2%, 98.3%)    | 733.3/773.8 = 94.8%<br>(85.2%, 98.3%)    | 671.1/773.8 = 86.7%<br>(75.6%, 93.2%)    |
| White Non-Hispanic        | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 67  | 44.4/6586.8 = 0.7%<br>(0.1%, 4.8%)       | 44.4/6586.8 = 0.7%<br>(0.1%, 4.8%)       | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic        | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 121 | 546.7/666.4 = 82.0%<br>(70.0%, 90.0%)    | 550.2/666.4 = 82.6%<br>(70.5%, 90.4%)    | 458.9/666.4 = 68.9%<br>(56.4%, 79.1%)    |
| White Non-Hispanic        | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 362 | 6531.1/6597 = 99.0%<br>(97.8%, 99.6%)    | 6531.1/6597 = 99.0%<br>(97.8%, 99.6%)    | 6436.8/6597 = 97.6%<br>(95.1%, 98.8%)    |
| White Non-Hispanic        | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic        | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic        | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 121 | 652.7/666.4 = 97.9%<br>(86.3%, 99.7%)    | 652.7/666.4 = 97.9%<br>(86.3%, 99.7%)    | 625.2/666.4 = 93.8%<br>(82.4%, 98.0%)    |
| Black or African American | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 195 | 1743.5/2012.2 = 86.6%<br>(78.6%, 92.0%)  | 1743.5/2012.2 = 86.6%<br>(78.6%, 92.0%)  | 1549.3/2012.2 = 77.0%<br>(67.8%, 84.2%)  |
| Black or African American | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 52  | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%) | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%) | 187/195.6 = 95.6%<br>(72.5%, 99.4%)      |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|---------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Black or African American | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 39  | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)          | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)          | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)          |
| Black or African American | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 60  | 220.4/265.1 = 83.2%<br>(66.7%, 92.4%)    | 220.4/265.1 = 83.2%<br>(66.7%, 92.4%)    | 154/265.1 = 58.1%<br>(40.8%, 73.6%)      |
| Black or African American | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 195 | 1977.3/2012.2 = 98.3%<br>(91.8%, 99.7%)  | 1977.3/2012.2 = 98.3%<br>(91.8%, 99.7%)  | 1977.3/2012.2 = 98.3%<br>(91.8%, 99.7%)  |
| Black or African American | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 52  | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%) | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%) | 195.6/195.6 = 100.0%<br>(100.0%, 100.0%) |
| Black or African American | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 39  | 43.1/2311.6 = 1.9%<br>(0.2%, 13.1%)      | 43.1/2311.6 = 1.9%<br>(0.2%, 13.1%)      | 0/2311.6 = 0.0%<br>(0.0%, 0.0%)          |
| Black or African American | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 60  | 243.2/265.1 = 91.7%<br>(74.1%, 97.7%)    | 243.2/265.1 = 91.7%<br>(74.1%, 97.7%)    | 241.6/265.1 = 91.1%<br>(74.1%, 97.4%)    |
| Asian                     | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 67  | 653.8/673.6 = 97.1%<br>(91.8%, 99.0%)    | 653.8/673.6 = 97.1%<br>(91.8%, 99.0%)    | 630/673.6 = 93.5%<br>(87.7%, 96.7%)      |
| Asian                     | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 24  | 78.8/81.1 = 97.1%<br>(80.0%, 99.7%)      | 78.8/81.1 = 97.1%<br>(80.0%, 99.7%)      | 76.5/81.1 = 94.3%<br>(79.4%, 98.6%)      |
| Asian                     | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 12  | 28.8/609.1 = 4.7%<br>(0.5%, 34.8%)       | 28.8/609.1 = 4.7%<br>(0.5%, 34.8%)       | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           |
| Asian                     | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 13  | 45.9/48.4 = 94.9%<br>(64.0%, 99.5%)      | 45.9/48.4 = 94.9%<br>(64.0%, 99.5%)      | 31.3/48.4 = 64.6%<br>(19.5%, 93.2%)      |
| Asian                     | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 67  | 669.7/673.6 = 99.4%<br>(95.8%, 99.9%)    | 669.7/673.6 = 99.4%<br>(95.8%, 99.9%)    | 665.7/673.6 = 98.8%<br>(95.4%, 99.7%)    |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N  | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|----------------------------------|--------|---------|---------------------|----------------------|----|--|--|--|
| Asian                            | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 24 | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   | 81.1/81.1 = 100.0%<br>(100.0%, 100.0%)   |
| Asian                            | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 12 | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           | 0/609.1 = 0.0%<br>(0.0%, 0.0%)           |
| Asian                            | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 13 | 45.9/48.4 = 94.9%<br>(64.0%, 99.5%)      | 45.9/48.4 = 94.9%<br>(64.0%, 99.5%)      | 45.9/48.4 = 94.9%<br>(64.0%, 99.5%)      |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 13 | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 139.5/151.4 = 92.1%<br>(65.9%, 98.6%)    |
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 6  | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 5  | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           |
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 4  | 5.6/15.3 = 36.5%                         | 5.6/15.3 = 36.5%                         | 3.1/15.3 = 20.4%                         |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 13 | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) | 151.4/151.4 = 100.0%<br>(100.0%, 100.0%) |
| American Indian or Alaska Native | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 6  | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   | 31.1/31.1 = 100.0%<br>(100.0%, 100.0%)   |
| American Indian or Alaska Native | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 5  | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           | 0/247.2 = 0.0%<br>(0.0%, 0.0%)           |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N  | Responder                              | % 2-Fold Rise                          | % 4-Fold Rise                          |
|---|--------|---------|---------------------|----------------------|----|--|--|--|
| American Indian or Alaska Native          | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 4  | 15.3/15.3 = 100.0%                     | 15.3/15.3 = 100.0%                     | 15.3/15.3 = 100.0%                     |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 17 | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 94.3/98.2 = 96.0%<br>(70.1%, 99.6%)    |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 5  | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 1  | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 1  | 0/2.5 = 0.0%                           | 0/2.5 = 0.0%                           | 0/2.5 = 0.0%                           |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 17 | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) | 98.2/98.2 = 100.0%<br>(100.0%, 100.0%) |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 5  | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     | 23/23 = 100.0%<br>(100.0%, 100.0%)     |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N  | Responder                              | % 2-Fold Rise                          | % 4-Fold Rise                          |
|---|--------|---------|---------------------|----------------------|----|--|--|--|
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 1  | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          | 0/28.8 = 0.0%                          |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 1  | 2.5/2.5 = 100.0%                       | 2.5/2.5 = 100.0%                       | 2.5/2.5 = 100.0%                       |
| Multiracial                               | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 52 | 416.8/498.5 = 83.6%<br>(62.3%, 94.0%)  | 416.8/498.5 = 83.6%<br>(62.3%, 94.0%)  | 382/498.5 = 76.6%<br>(54.9%, 89.8%)    |
| Multiracial                               | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 12 | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%) | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%) | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%) |
| Multiracial                               | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 8  | 0/554 = 0.0%<br>(0.0%, 0.0%)           | 0/554 = 0.0%<br>(0.0%, 0.0%)           | 0/554 = 0.0%<br>(0.0%, 0.0%)           |
| Multiracial                               | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 19 | 56.5/61.4 = 92.0%<br>(71.7%, 98.1%)    | 56.5/61.4 = 92.0%<br>(71.7%, 98.1%)    | 45.2/61.4 = 73.6%<br>(30.6%, 94.6%)    |
| Multiracial                               | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 52 | 494.5/498.5 = 99.2%<br>(94.3%, 99.9%)  | 494.5/498.5 = 99.2%<br>(94.3%, 99.9%)  | 494.5/498.5 = 99.2%<br>(94.3%, 99.9%)  |
| Multiracial                               | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 12 | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%) | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%) | 56.4/56.4 = 100.0%<br>(100.0%, 100.0%) |
| Multiracial                               | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 8  | 0/554 = 0.0%<br>(0.0%, 0.0%)           | 0/554 = 0.0%<br>(0.0%, 0.0%)           | 0/554 = 0.0%<br>(0.0%, 0.0%)           |
| Multiracial                               | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 19 | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%) | 61.4/61.4 = 100.0%<br>(100.0%, 100.0%) | 58.9/61.4 = 96.0%<br>(72.4%, 99.5%)    |
| Other                                     | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 34 | 426.4/469.2 = 90.9%<br>(68.6%, 97.8%)  | 426.4/469.2 = 90.9%<br>(68.6%, 97.8%)  | 383.6/469.2 = 81.8%<br>(59.3%, 93.2%)  |
| Other                                     | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 7  | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%) | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%) | 11.5/13.8 = 83.2%<br>(18.4%, 99.1%)    |
| Other                                     | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 4  | 0/232.6 = 0.0%                         | 0/232.6 = 0.0%                         | 0/232.6 = 0.0%                         |
| Other                                     | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 5  | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%) | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%) | 22.6/24.1 = 93.5%<br>(32.5%, 99.8%)    |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N  | Responder                                  | % 2-Fold Rise                              | % 4-Fold Rise                            |
|--------------------------|--------|---------|---------------------|----------------------|----|--|--|--|
| Other                    | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 34 | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%)   | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%)   | 469.2/469.2 = 100.0%<br>(100.0%, 100.0%) |
| Other                    | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 7  | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)     | 13.8/13.8 = 100.0%<br>(100.0%, 100.0%)   |
| Other                    | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 4  | 0/232.6 = 0.0%                             | 0/232.6 = 0.0%                             | 0/232.6 = 0.0%                           |
| Other                    | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 5  | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)     | 24.1/24.1 = 100.0%<br>(100.0%, 100.0%)   |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 87 | 1107.8/1413.2 = 78.4%<br>(61.9%, 89.0%)    | 1154.4/1413.2 = 81.7%<br>(65.2%, 91.4%)    | 1014/1413.2 = 71.8%<br>(55.6%, 83.7%)    |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 20 | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 139.5/155 = 90.0%<br>(45.7%, 99.0%)      |
| Not reported and unknown | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 14 | 76.3/1337.6 = 5.7%<br>(0.6%, 38.4%)        | 76.3/1337.6 = 5.7%<br>(0.6%, 38.4%)        | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)          |
| Not reported and unknown | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 24 | 149.2/165.4 = 90.2%<br>(55.7%, 98.5%)      | 149.2/165.4 = 90.2%<br>(55.7%, 98.5%)      | 103.1/165.4 = 62.3%<br>(33.5%, 84.4%)    |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 87 | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1413.2/1413.2 = 100.0%<br>(100.0%, 100.0%) | 1400.5/1413.2 = 99.1%<br>(93.6%, 99.9%)  |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 20 | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)       | 155/155 = 100.0%<br>(100.0%, 100.0%)     |
| Not reported and unknown | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 14 | 44.4/1337.6 = 3.3%<br>(0.4%, 25.1%)        | 44.4/1337.6 = 3.3%<br>(0.4%, 25.1%)        | 0/1337.6 = 0.0%<br>(0.0%, 0.0%)          |
| Not reported and unknown | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 24 | 148.3/165.4 = 89.6%<br>(55.9%, 98.3%)      | 148.3/165.4 = 89.6%<br>(55.9%, 98.3%)      | 148.3/165.4 = 89.6%<br>(55.9%, 98.3%)    |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4i. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Underrepresented minority status

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                             | % 2-Fold Rise                         | % 4-Fold Rise                         |
|----------------------------------|--------|---------|---------------------|----------------------|-----|---------------------------------------|---------------------------------------|---------------------------------------|
| Underrepresented minority status |        |         |                     |                      |     |                                       |                                       |                                       |
| Communities of Color             | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 420 | 3833.3/4289 = 89.4%<br>(84.6%, 92.8%) | 3833.3/4289 = 89.4%<br>(84.6%, 92.8%) | 3490.9/4289 = 81.4%<br>(75.8%, 86.0%) |
| Communities of Color             | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 120 | 458/462 = 99.1%<br>(96.5%, 99.8%)     | 458/462 = 99.1%<br>(96.5%, 99.8%)     | 444.7/462 = 96.3%<br>(89.1%, 98.8%)   |
| Communities of Color             | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 73  | 28.8/4319 = 0.7%<br>(0.1%, 4.8%)      | 28.8/4319 = 0.7%<br>(0.1%, 4.8%)      | 0/4319 = 0.0%<br>(0.0%, 0.0%)         |
| Communities of Color             | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 111 | 374.8/439 = 85.4%<br>(74.2%, 92.2%)   | 374.8/439 = 85.4%<br>(74.2%, 92.2%)   | 276.8/439 = 63.1%<br>(50.1%, 74.4%)   |
| Communities of Color             | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 420 | 4219.3/4289 = 98.4%<br>(95.2%, 99.5%) | 4219.3/4289 = 98.4%<br>(95.2%, 99.5%) | 4215.3/4289 = 98.3%<br>(95.2%, 99.4%) |
| Communities of Color             | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 120 | 462/462 = 100.0%<br>(100.0%, 100.0%)  | 462/462 = 100.0%<br>(100.0%, 100.0%)  | 462/462 = 100.0%<br>(100.0%, 100.0%)  |
| Communities of Color             | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 73  | 43.1/4319 = 1.0%<br>(0.1%, 7.0%)      | 43.1/4319 = 1.0%<br>(0.1%, 7.0%)      | 0/4319 = 0.0%<br>(0.0%, 0.0%)         |
| Communities of Color             | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 111 | 414.6/439 = 94.4%<br>(83.7%, 98.3%)   | 414.6/439 = 94.4%<br>(83.7%, 98.3%)   | 410.6/439 = 93.5%<br>(83.4%, 97.7%)   |
| White Non-Hispanic               | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 362 | 5915.2/6597 = 89.7%<br>(84.2%, 93.4%) | 5922.6/6597 = 89.8%<br>(84.3%, 93.5%) | 5515.3/6597 = 83.6%<br>(77.6%, 88.3%) |
| White Non-Hispanic               | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 125 | 733.3/773.8 = 94.8%<br>(85.2%, 98.3%) | 733.3/773.8 = 94.8%<br>(85.2%, 98.3%) | 671.1/773.8 = 86.7%<br>(75.6%, 93.2%) |
| White Non-Hispanic               | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 67  | 44.4/6586.8 = 0.7%<br>(0.1%, 4.8%)    | 44.4/6586.8 = 0.7%<br>(0.1%, 4.8%)    | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)       |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|--------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 121 | 546.7/666.4 = 82.0%<br>(70.0%, 90.0%)    | 550.2/666.4 = 82.6%<br>(70.5%, 90.4%)    | 458.9/666.4 = 68.9%<br>(56.4%, 79.1%)    |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 362 | 6531.1/6597 = 99.0%<br>(97.8%, 99.6%)    | 6531.1/6597 = 99.0%<br>(97.8%, 99.6%)    | 6436.8/6597 = 97.6%<br>(95.1%, 98.8%)    |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 125 | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) | 773.8/773.8 = 100.0%<br>(100.0%, 100.0%) |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 67  | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          | 0/6586.8 = 0.0%<br>(0.0%, 0.0%)          |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 121 | 652.7/666.4 = 97.9%<br>(86.3%, 99.7%)    | 652.7/666.4 = 97.9%<br>(86.3%, 99.7%)    | 625.2/666.4 = 93.8%<br>(82.4%, 98.0%)    |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 4j. Percentage of responders, and participants participants with 2-fold rise, and participants with 4-fold rise for ID50 pseudo-virus neutralization antibody markers by Age, Underrepresented minority status

| Group                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                             | % 2-Fold Rise                         | % 4-Fold Rise                         |
|---------------------------------------|--------|---------|---------------------|----------------------|-----|---------------------------------------|---------------------------------------|---------------------------------------|
| Age, Underrepresented minority status |        |         |                     |                      |     |                                       |                                       |                                       |
| Age < 65 Communities of Color         | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 192 | 2958/3386 = 87.4%<br>(81.4%, 91.6%)   | 2958/3386 = 87.4%<br>(81.4%, 91.6%)   | 2671.1/3386 = 78.9%<br>(71.8%, 84.6%) |
| Age < 65 Communities of Color         | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 69  | 372.7/375 = 99.4%<br>(95.6%, 99.9%)   | 372.7/375 = 99.4%<br>(95.6%, 99.9%)   | 359.4/375 = 95.8%<br>(86.7%, 98.8%)   |
| Age < 65 Communities of Color         | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 37  | 0/3281 = 0.0%<br>(0.0%, 0.0%)         | 0/3281 = 0.0%<br>(0.0%, 0.0%)         | 0/3281 = 0.0%<br>(0.0%, 0.0%)         |
| Age < 65 Communities of Color         | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 61  | 299.9/361 = 83.1%<br>(69.5%, 91.4%)   | 299.9/361 = 83.1%<br>(69.5%, 91.4%)   | 209.7/361 = 58.1%<br>(42.8%, 72.0%)   |
| Age < 65 Communities of Color         | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 192 | 3324.2/3386 = 98.2%<br>(93.9%, 99.5%) | 3324.2/3386 = 98.2%<br>(93.9%, 99.5%) | 3324.2/3386 = 98.2%<br>(93.9%, 99.5%) |
| Age < 65 Communities of Color         | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 69  | 375/375 = 100.0%<br>(100.0%, 100.0%)  | 375/375 = 100.0%<br>(100.0%, 100.0%)  | 375/375 = 100.0%<br>(100.0%, 100.0%)  |
| Age < 65 Communities of Color         | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 37  | 43.1/3281 = 1.3%<br>(0.2%, 9.4%)      | 43.1/3281 = 1.3%<br>(0.2%, 9.4%)      | 0/3281 = 0.0%<br>(0.0%, 0.0%)         |
| Age < 65 Communities of Color         | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 61  | 336.6/361 = 93.2%<br>(80.2%, 97.9%)   | 336.6/361 = 93.2%<br>(80.2%, 97.9%)   | 334.1/361 = 92.6%<br>(80.0%, 97.5%)   |

(continued)

| Group                               | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|-------------------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age < 65<br>White<br>Non-Hispanic   | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 175 | 4601.9/5217.3 = 88.2%<br>(81.3%, 92.8%)  | 4601.9/5217.3 = 88.2%<br>(81.3%, 92.8%)  | 4253.6/5217.3 = 81.5%<br>(73.9%, 87.3%)  |
| Age < 65<br>White<br>Non-Hispanic   | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 59  | 567/602.4 = 94.1%<br>(81.1%, 98.4%)      | 567/602.4 = 94.1%<br>(81.1%, 98.4%)      | 507.5/602.4 = 84.2%<br>(69.9%, 92.5%)    |
| Age < 65<br>White<br>Non-Hispanic   | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 31  | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65<br>White<br>Non-Hispanic   | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 61  | 407.9/517.6 = 78.8%<br>(63.4%, 88.9%)    | 411.3/517.6 = 79.5%<br>(64.0%, 89.4%)    | 332.4/517.6 = 64.2%<br>(48.6%, 77.4%)    |
| Age < 65<br>White<br>Non-Hispanic   | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 175 | 5166.2/5217.3 = 99.0%<br>(97.4%, 99.6%)  | 5166.2/5217.3 = 99.0%<br>(97.4%, 99.6%)  | 5094/5217.3 = 97.6%<br>(94.3%, 99.0%)    |
| Age < 65<br>White<br>Non-Hispanic   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 59  | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) | 602.4/602.4 = 100.0%<br>(100.0%, 100.0%) |
| Age < 65<br>White<br>Non-Hispanic   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 31  | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          | 0/4988.2 = 0.0%<br>(0.0%, 0.0%)          |
| Age < 65<br>White<br>Non-Hispanic   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 61  | 503.9/517.6 = 97.3%<br>(82.5%, 99.7%)    | 503.9/517.6 = 97.3%<br>(82.5%, 99.7%)    | 476.4/517.6 = 92.0%<br>(77.5%, 97.5%)    |
| Age ≥ 65<br>Communities of<br>Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 228 | 875.3/903 = 96.9%<br>(93.7%, 98.5%)      | 875.3/903 = 96.9%<br>(93.7%, 98.5%)      | 819.8/903 = 90.8%<br>(86.2%, 93.9%)      |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                               | % 2-Fold Rise                           | % 4-Fold Rise                           |
|-----------------------------------|--------|---------|---------------------|----------------------|-----|---|---|---|
| Age ≥ 65<br>Communities of Color  | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 51  | 85.3/87 = 98.0%<br>(86.6%, 99.7%)       | 85.3/87 = 98.0%<br>(86.6%, 99.7%)       | 85.3/87 = 98.0%<br>(86.6%, 99.7%)       |
| Age ≥ 65<br>Communities of Color  | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 36  | 28.8/1038 = 2.8%<br>(0.4%, 18.7%)       | 28.8/1038 = 2.8%<br>(0.4%, 18.7%)       | 0/1038 = 0.0%<br>(0.0%, 0.0%)           |
| Age ≥ 65<br>Communities of Color  | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 50  | 74.9/78 = 96.0%<br>(84.7%, 99.0%)       | 74.9/78 = 96.0%<br>(84.7%, 99.0%)       | 67.1/78 = 86.0%<br>(72.9%, 93.4%)       |
| Age ≥ 65<br>Communities of Color  | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 228 | 895.1/903 = 99.1%<br>(96.5%, 99.8%)     | 895.1/903 = 99.1%<br>(96.5%, 99.8%)     | 891.1/903 = 98.7%<br>(96.0%, 99.6%)     |
| Age ≥ 65<br>Communities of Color  | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 51  | 87/87 = 100.0%<br>(100.0%, 100.0%)      | 87/87 = 100.0%<br>(100.0%, 100.0%)      | 87/87 = 100.0%<br>(100.0%, 100.0%)      |
| Age ≥ 65<br>Communities of Color  | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 36  | 0/1038 = 0.0%<br>(0.0%, 0.0%)           | 0/1038 = 0.0%<br>(0.0%, 0.0%)           | 0/1038 = 0.0%<br>(0.0%, 0.0%)           |
| Age ≥ 65<br>Communities of Color  | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 50  | 78/78 = 100.0%<br>(100.0%, 100.0%)      | 78/78 = 100.0%<br>(100.0%, 100.0%)      | 76.4/78 = 98.0%<br>(86.3%, 99.7%)       |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 187 | 1313.3/1379.7 = 95.2%<br>(91.0%, 97.5%) | 1320.7/1379.7 = 95.7%<br>(91.6%, 97.9%) | 1261.6/1379.7 = 91.4%<br>(86.4%, 94.7%) |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 66  | 166.2/171.4 = 97.0%<br>(88.3%, 99.3%)   | 166.2/171.4 = 97.0%<br>(88.3%, 99.3%)   | 163.6/171.4 = 95.5%<br>(86.5%, 98.6%)   |

(continued)

| Group                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Responder                                | % 2-Fold Rise                            | % 4-Fold Rise                            |
|-----------------------------------|--------|---------|---------------------|----------------------|-----|--|--|--|
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50 | 36  | 44.4/1598.6 = 2.8%<br>(0.4%, 18.7%)      | 44.4/1598.6 = 2.8%<br>(0.4%, 18.7%)      | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50 | 60  | 138.8/148.8 = 93.3%<br>(83.1%, 97.5%)    | 138.8/148.8 = 93.3%<br>(83.1%, 97.5%)    | 126.5/148.8 = 85.0%<br>(73.2%, 92.2%)    |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50 | 187 | 1364.9/1379.7 = 98.9%<br>(95.8%, 99.7%)  | 1364.9/1379.7 = 98.9%<br>(95.8%, 99.7%)  | 1342.8/1379.7 = 97.3%<br>(93.7%, 98.9%)  |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50 | 66  | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%) | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%) | 171.4/171.4 = 100.0%<br>(100.0%, 100.0%) |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50 | 36  | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)          | 0/1598.6 = 0.0%<br>(0.0%, 0.0%)          |
| Age ≥ 65<br>White<br>Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50 | 60  | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) | 148.8/148.8 = 100.0%<br>(100.0%, 100.0%) |

Neutralization Responders are defined as participants who had baseline values below the lower limit of detection (LLOD) with detectable ID50 neutralization titer above the assay LLOD, or as participants with baseline values above the LLOD with a 4-fold increase in ID50.

Table 5a. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by All participants

| Group            | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|------------------|-------|---------|---------------------|------------------------|-----|----------------|
| All participants |       |         |                     |                        |     |                |
|                  | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 10<br>(10, 10) |
|                  | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 10<br>(10, 10) |
|                  | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 914 | 5<br>(5, 5)    |
|                  | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 914 | 5<br>(5, 5)    |
|                  | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 10<br>(10, 10) |
|                  | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 10<br>(10, 10) |
|                  | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 274 | 5<br>(5, 5)    |
|                  | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 274 | 5<br>(5, 5)    |
|                  | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 11) |
|                  | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10) |
|                  | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)    |
|                  | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)    |
|                  | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 10<br>(10, 10) |
|                  | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 270 | 10<br>(10, 10) |
|                  | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 270 | 5<br>(5, 5)    |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|-------|--------|---------|---------------------|------------------------|-----|-------------------------|
|       | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 270 | 5<br>(5, 5)             |
|       | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 22926<br>(19863, 26460) |
|       | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 40963<br>(36741, 45671) |
|       | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 914 | 106<br>(91, 125)        |
|       | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 914 | 189<br>(161, 222)       |
|       | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 36133<br>(28182, 46328) |
|       | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 79981<br>(65041, 98352) |
|       | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 274 | 186<br>(142, 243)       |
|       | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 274 | 420<br>(314, 560)       |
|       | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 10)          |
|       | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)          |
|       | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)             |
|       | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)             |
|       | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 12861<br>(10150, 16296) |
|       | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 270 | 18191<br>(15159, 21829) |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-------|--------|---------|---------------------|------------------------|-----|-------------------------------|
|       | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 270 | 51<br>(40, 66)                |
|       | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 270 | 129<br>(98, 169)              |
|       | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 966160<br>(823437, 1133621)   |
|       | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 2087965<br>(1831068, 2380904) |
|       | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 914 | 1497<br>(1228, 1825)          |
|       | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 914 | 2223<br>(1809, 2733)          |
|       | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 2298869<br>(1785648, 2959596) |
|       | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 5346334<br>(4339333, 6587023) |
|       | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 274 | 5680<br>(3863, 8351)          |
|       | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 274 | 7837<br>(5545, 11076)         |
|       | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 10)                |
|       | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)                |
|       | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)                   |
|       | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)                   |
|       | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 382614<br>(299829, 488256)    |

(continued)

| Group | Visit  | Arm     | Baseline<br>SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|-------|--------|---------|------------------------|------------------------|-----|----------------------------|
|       | Day 57 | Placebo | Positive               | Anti Spike IgG (IU/ml) | 270 | 676872<br>(531354, 862241) |
|       | Day 57 | Placebo | Positive               | Pseudovirus-nAb ID50   | 270 | 566<br>(409, 783)          |
|       | Day 57 | Placebo | Positive               | Pseudovirus-nAb ID80   | 270 | 1324<br>(937, 1870)        |

Table 5b. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age

| Group    | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|----------|-------|---------|---------------------|------------------------|-----|----------------|
| Age      |       |         |                     |                        |     |                |
| Age < 65 | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 10<br>(10, 10) |
| Age < 65 | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 10<br>(10, 10) |
| Age < 65 | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 432 | 5<br>(5, 5)    |
| Age < 65 | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 432 | 5<br>(5, 5)    |
| Age < 65 | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 10<br>(10, 10) |
| Age < 65 | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 10<br>(10, 10) |
| Age < 65 | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 146 | 5<br>(5, 5)    |
| Age < 65 | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 146 | 5<br>(5, 5)    |
| Age < 65 | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 10<br>(10, 11) |
| Age < 65 | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 10<br>(10, 10) |
| Age < 65 | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 80  | 5<br>(5, 5)    |
| Age < 65 | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 80  | 5<br>(5, 5)    |
| Age < 65 | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 10<br>(10, 10) |
| Age < 65 | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 10<br>(10, 10) |
| Age < 65 | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 5<br>(5, 5)    |

(continued)

| Group    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|----------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 5<br>(5, 5)             |
| Age < 65 | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 17393<br>(14565, 20770) |
| Age < 65 | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 31397<br>(27475, 35879) |
| Age < 65 | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 432 | 85<br>(69, 103)         |
| Age < 65 | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 432 | 157<br>(129, 192)       |
| Age < 65 | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 24939<br>(18393, 33814) |
| Age < 65 | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 59400<br>(46119, 76506) |
| Age < 65 | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 146 | 144<br>(104, 198)       |
| Age < 65 | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 146 | 339<br>(238, 482)       |
| Age < 65 | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 10<br>(10, 10)          |
| Age < 65 | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 10<br>(10, 10)          |
| Age < 65 | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 80  | 5<br>(5, 5)             |
| Age < 65 | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 80  | 5<br>(5, 5)             |
| Age < 65 | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 9737<br>(7318, 12957)   |
| Age < 65 | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 13380<br>(10752, 16650) |

(continued)

| Group    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|----------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 40<br>(29, 54)                |
| Age < 65 | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 106<br>(76, 147)              |
| Age < 65 | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 737116<br>(604473, 898866)    |
| Age < 65 | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 1643373<br>(1397160, 1932976) |
| Age < 65 | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 432 | 1136<br>(890, 1449)           |
| Age < 65 | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 432 | 1750<br>(1355, 2260)          |
| Age < 65 | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 1708031<br>(1250384, 2333179) |
| Age < 65 | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 4266733<br>(3292306, 5529560) |
| Age < 65 | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 146 | 4061<br>(2527, 6527)          |
| Age < 65 | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 146 | 6238<br>(4090, 9513)          |
| Age < 65 | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 10<br>(10, 10)                |
| Age < 65 | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 10<br>(10, 10)                |
| Age < 65 | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 80  | 5<br>(5, 5)                   |
| Age < 65 | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 80  | 5<br>(5, 5)                   |
| Age < 65 | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 270061<br>(201183, 362521)    |

(continued)

| Group    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|----------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 484596<br>(361146, 650244) |
| Age < 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 387<br>(262, 572)          |
| Age < 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 1009<br>(665, 1531)        |
| Age ≥ 65 | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 10<br>(10, 10)             |
| Age ≥ 65 | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 10<br>(10, 10)             |
| Age ≥ 65 | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 482 | 5<br>(5, 5)                |
| Age ≥ 65 | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 482 | 5<br>(5, 5)                |
| Age ≥ 65 | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 10<br>(10, 10)             |
| Age ≥ 65 | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 10<br>(10, 10)             |
| Age ≥ 65 | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 128 | 5<br>(5, 5)                |
| Age ≥ 65 | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 128 | 5<br>(5, 5)                |
| Age ≥ 65 | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)             |
| Age ≥ 65 | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)             |
| Age ≥ 65 | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 5)                |
| Age ≥ 65 | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)                |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|---------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 10<br>(10, 10)             |
| Age $\geq$ 65 | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 10<br>(10, 10)             |
| Age $\geq$ 65 | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 5<br>(5, 5)                |
| Age $\geq$ 65 | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 5<br>(5, 5)                |
| Age $\geq$ 65 | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 65260<br>(56734, 75068)    |
| Age $\geq$ 65 | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 112166<br>(98902, 127209)  |
| Age $\geq$ 65 | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 482 | 254<br>(214, 300)          |
| Age $\geq$ 65 | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 482 | 381<br>(321, 451)          |
| Age $\geq$ 65 | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 158619<br>(123545, 203649) |
| Age $\geq$ 65 | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 262073<br>(211994, 323982) |
| Age $\geq$ 65 | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 128 | 522<br>(373, 731)          |
| Age $\geq$ 65 | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 128 | 988<br>(733, 1331)         |
| Age $\geq$ 65 | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)             |
| Age $\geq$ 65 | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)             |
| Age $\geq$ 65 | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 5)                |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                          |
|---------------|--------|---------|---------------------|------------------------|-----|----------------------------------|
| Age $\geq$ 65 | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)                      |
| Age $\geq$ 65 | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 41836<br>(32047, 54614)          |
| Age $\geq$ 65 | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 66891<br>(53117, 84238)          |
| Age $\geq$ 65 | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 156<br>(112, 216)                |
| Age $\geq$ 65 | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 301<br>(219, 413)                |
| Age $\geq$ 65 | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 2692372<br>(2329146, 3112243)    |
| Age $\geq$ 65 | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 5171042<br>(4536102, 5894857)    |
| Age $\geq$ 65 | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 482 | 4259<br>(3414, 5312)             |
| Age $\geq$ 65 | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 482 | 5506<br>(4535, 6685)             |
| Age $\geq$ 65 | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 7520373<br>(6146909, 9200723)    |
| Age $\geq$ 65 | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 13148461<br>(11661345, 14825221) |
| Age $\geq$ 65 | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 128 | 21658<br>(15437, 30385)          |
| Age $\geq$ 65 | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 128 | 19480<br>(13318, 28494)          |
| Age $\geq$ 65 | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)                   |
| Age $\geq$ 65 | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)                   |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|---------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age $\geq$ 65 | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 5)                   |
| Age $\geq$ 65 | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)                   |
| Age $\geq$ 65 | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 1675605<br>(1276999, 2198632) |
| Age $\geq$ 65 | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 2790960<br>(2209589, 3525298) |
| Age $\geq$ 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 2827<br>(1887, 4233)          |
| Age $\geq$ 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 4185<br>(2859, 6127)          |

Table 5c. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Risk for Severe Covid-19

| Group                    | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|--------------------------|-------|---------|---------------------|------------------------|-----|----------------|
| Risk for Severe Covid-19 |       |         |                     |                        |     |                |
| At-risk                  | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 10<br>(10, 10) |
| At-risk                  | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 10<br>(10, 10) |
| At-risk                  | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 469 | 5<br>(5, 5)    |
| At-risk                  | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 469 | 5<br>(5, 5)    |
| At-risk                  | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10) |
| At-risk                  | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10) |
| At-risk                  | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)    |
| At-risk                  | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)    |
| At-risk                  | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 10<br>(10, 10) |
| At-risk                  | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 10<br>(10, 11) |
| At-risk                  | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 84  | 5<br>(5, 5)    |
| At-risk                  | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 84  | 5<br>(5, 5)    |
| At-risk                  | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 10<br>(10, 10) |
| At-risk                  | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 10<br>(10, 10) |
| At-risk                  | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 5<br>(5, 5)    |

(continued)

| Group   | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                   |
|---------|--------|---------|---------------------|------------------------|-----|---------------------------|
| At-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 5<br>(5, 5)               |
| At-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 26276<br>(22610, 30535)   |
| At-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 45842<br>(40067, 52448)   |
| At-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 469 | 103<br>(87, 122)          |
| At-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 469 | 215<br>(180, 258)         |
| At-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 55528<br>(43641, 70653)   |
| At-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 103862<br>(82479, 130788) |
| At-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 220<br>(161, 302)         |
| At-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 443<br>(318, 617)         |
| At-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 10<br>(10, 10)            |
| At-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 10<br>(10, 10)            |
| At-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 84  | 5<br>(5, 5)               |
| At-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 84  | 5<br>(5, 5)               |
| At-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 16713<br>(12642, 22096)   |
| At-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 26705<br>(21285, 33505)   |

(continued)

| Group   | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|---------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| At-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 69<br>(52, 93)                |
| At-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 180<br>(133, 243)             |
| At-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 1142597<br>(961925, 1357205)  |
| At-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 2144439<br>(1840509, 2498559) |
| At-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 469 | 1796<br>(1424, 2264)          |
| At-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 469 | 2766<br>(2265, 3377)          |
| At-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 2930270<br>(2216035, 3874704) |
| At-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 6396516<br>(5214355, 7846688) |
| At-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 6128<br>(4355, 8625)          |
| At-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 11182<br>(7684, 16271)        |
| At-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 10<br>(10, 10)                |
| At-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 10<br>(10, 10)                |
| At-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 84  | 5<br>(5, 5)                   |
| At-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 84  | 5<br>(5, 5)                   |
| At-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 663561<br>(492320, 894363)    |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                      |
|-------------|--------|---------|---------------------|------------------------|-----|------------------------------|
| At-risk     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 1012116<br>(794913, 1288669) |
| At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 931<br>(651, 1331)           |
| At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 2086<br>(1418, 3067)         |
| Not at-risk | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 10<br>(10, 10)               |
| Not at-risk | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 10<br>(10, 10)               |
| Not at-risk | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 445 | 5<br>(5, 5)                  |
| Not at-risk | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 445 | 5<br>(5, 5)                  |
| Not at-risk | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 10<br>(10, 10)               |
| Not at-risk | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 10<br>(10, 10)               |
| Not at-risk | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 149 | 5<br>(5, 5)                  |
| Not at-risk | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 149 | 5<br>(5, 5)                  |
| Not at-risk | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 11)               |
| Not at-risk | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)               |
| Not at-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)                  |
| Not at-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)                  |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|-------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Not at-risk | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 10<br>(10, 10)          |
| Not at-risk | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 10<br>(10, 10)          |
| Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 5<br>(5, 5)             |
| Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 5<br>(5, 5)             |
| Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 21736<br>(17965, 26298) |
| Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 39200<br>(34023, 45165) |
| Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 445 | 108<br>(87, 133)        |
| Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 445 | 180<br>(145, 223)       |
| Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 31130<br>(22510, 43050) |
| Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 73051<br>(55946, 95386) |
| Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 149 | 175<br>(124, 247)       |
| Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 149 | 412<br>(284, 597)       |
| Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 10)          |
| Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)          |
| Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)             |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)                   |
| Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 11818<br>(8756, 15950)        |
| Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 16070<br>(12770, 20222)       |
| Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 47<br>(34, 64)                |
| Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 116<br>(82, 164)              |
| Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 904842<br>(732112, 1118324)   |
| Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 2066294<br>(1739231, 2454861) |
| Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 445 | 1394<br>(1075, 1808)          |
| Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 445 | 2041<br>(1549, 2690)          |
| Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 2113273<br>(1525010, 2928453) |
| Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 5023873<br>(3827375, 6594416) |
| Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 149 | 5532<br>(3337, 9171)          |
| Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 149 | 6928<br>(4429, 10838)         |
| Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 10)                |
| Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)                |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|-------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)                |
| Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)                |
| Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 320294<br>(235413, 435781) |
| Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 594413<br>(435730, 810886) |
| Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 482<br>(318, 728)          |
| Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 1143<br>(737, 1774)        |

Table 5d. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age, Risk for Severe Covid-19

| Group                         | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|-------------------------------|-------|---------|---------------------|------------------------|-----|----------------|
| Age, Risk for Severe Covid-19 |       |         |                     |                        |     |                |
| Age < 65 At-risk              | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 214 | 5<br>(5, 5)    |
| Age < 65 At-risk              | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 214 | 5<br>(5, 5)    |
| Age < 65 At-risk              | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)    |
| Age < 65 At-risk              | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)    |
| Age < 65 At-risk              | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 11) |
| Age < 65 At-risk              | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)    |
| Age < 65 At-risk              | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)    |
| Age < 65 At-risk              | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 10<br>(10, 10) |
| Age < 65 At-risk              | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 5<br>(5, 5)    |

(continued)

| Group            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|------------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 At-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 5<br>(5, 5)             |
| Age < 65 At-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 16530<br>(13368, 20441) |
| Age < 65 At-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 31028<br>(25725, 37423) |
| Age < 65 At-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 214 | 68<br>(54, 85)          |
| Age < 65 At-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 214 | 159<br>(123, 204)       |
| Age < 65 At-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 30603<br>(22501, 41623) |
| Age < 65 At-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 62641<br>(46271, 84801) |
| Age < 65 At-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 142<br>(95, 213)        |
| Age < 65 At-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 291<br>(187, 453)       |
| Age < 65 At-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 10)          |
| Age < 65 At-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)          |
| Age < 65 At-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 6)             |
| Age < 65 At-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)             |
| Age < 65 At-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 10221<br>(7219, 14470)  |
| Age < 65 At-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 16112<br>(12299, 21107) |

(continued)

| Group            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 At-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 48<br>(34, 67)                |
| Age < 65 At-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 127<br>(87, 186)              |
| Age < 65 At-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 761200<br>(595277, 973370)    |
| Age < 65 At-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 1498825<br>(1211392, 1854460) |
| Age < 65 At-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 214 | 1203<br>(876, 1652)           |
| Age < 65 At-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 214 | 2067<br>(1571, 2720)          |
| Age < 65 At-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 1815884<br>(1228679, 2683724) |
| Age < 65 At-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 4547755<br>(3405518, 6073108) |
| Age < 65 At-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 2953<br>(1859, 4690)          |
| Age < 65 At-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 7954<br>(4852, 13039)         |
| Age < 65 At-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 11)                |
| Age < 65 At-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)                |
| Age < 65 At-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)                   |
| Age < 65 At-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)                   |
| Age < 65 At-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 417627<br>(286526, 608715)    |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|----------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 At-risk     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 575539<br>(423609, 781958) |
| Age < 65 At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 502<br>(325, 776)          |
| Age < 65 At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 1382<br>(851, 2245)        |
| Age < 65 Not at-risk | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 10<br>(10, 10)             |
| Age < 65 Not at-risk | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 10<br>(10, 10)             |
| Age < 65 Not at-risk | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 218 | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 218 | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)             |
| Age < 65 Not at-risk | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)             |
| Age < 65 Not at-risk | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 11)             |
| Age < 65 Not at-risk | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)             |
| Age < 65 Not at-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 6)                |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|----------------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 Not at-risk | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 10<br>(10, 10)          |
| Age < 65 Not at-risk | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 10<br>(10, 10)          |
| Age < 65 Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 5<br>(5, 5)             |
| Age < 65 Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 5<br>(5, 5)             |
| Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 17639<br>(14174, 21953) |
| Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 31500<br>(26782, 37050) |
| Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 218 | 90<br>(70, 115)         |
| Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 218 | 157<br>(122, 200)       |
| Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 23567<br>(16129, 34434) |
| Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 58534<br>(42846, 79967) |
| Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 144<br>(97, 214)        |
| Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 353<br>(229, 545)       |
| Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 10)          |
| Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)          |
| Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)             |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|----------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)                   |
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 9616<br>(6788, 13622)         |
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 12751<br>(9770, 16642)        |
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 38<br>(26, 55)                |
| Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 101<br>(68, 150)              |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 730590<br>(572430, 932450)    |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 1685764<br>(1382036, 2056240) |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 218 | 1118<br>(830, 1506)           |
| Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 218 | 1671<br>(1216, 2295)          |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 1679359<br>(1144789, 2463552) |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 4192147<br>(3040678, 5779665) |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 4435<br>(2453, 8017)          |
| Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5833<br>(3464, 9821)          |
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 10)                |
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)                |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|----------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)                |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 241209<br>(168681, 344922) |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 463469<br>(322830, 665378) |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 362<br>(224, 583)          |
| Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 930<br>(559, 1549)         |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 10<br>(10, 10)             |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 10<br>(10, 10)             |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 255 | 5<br>(5, 5)                |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 255 | 5<br>(5, 5)                |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)             |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)             |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 6)                |
| Age ≥ 65 At-risk     | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)                |
| Age ≥ 65 At-risk     | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 10<br>(10, 10)             |

(continued)

| Group                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|-----------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 10<br>(10, 10)             |
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 44  | 5<br>(5, 5)                |
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 44  | 5<br>(5, 5)                |
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 11)             |
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)             |
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)                |
| Age $\geq$ 65 At-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)                |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 54232<br>(44615, 65922)    |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 84391<br>(70325, 101269)   |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 255 | 199<br>(157, 252)          |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 255 | 348<br>(276, 438)          |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 188670<br>(129392, 275106) |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 293282<br>(210942, 407763) |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 541<br>(337, 870)          |
| Age $\geq$ 65 At-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 1052<br>(680, 1627)        |

(continued)

| Group                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                          |
|-----------------------|--------|---------|---------------------|------------------------|-----|----------------------------------|
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 10<br>(10, 10)                   |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 10<br>(10, 10)                   |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 44  | 5<br>(5, 5)                      |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 44  | 5<br>(5, 5)                      |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 48060<br>(30237, 76388)          |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 79058<br>(52125, 119908)         |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 48  | 155<br>(89, 270)                 |
| Age $\geq$ 65 At-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 48  | 378<br>(233, 613)                |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 2156196<br>(1736284, 2677662)    |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 3754377<br>(3053564, 4616033)    |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 255 | 3359<br>(2423, 4656)             |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 255 | 4361<br>(3299, 5763)             |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 7826271<br>(5853680, 10463591)   |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 12884976<br>(10641883, 15600868) |
| Age $\geq$ 65 At-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 27431<br>(17819, 42227)          |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|---------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age $\geq$ 65 At-risk     | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 22502<br>(13237, 38254)       |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 10<br>(10, 10)                |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 10<br>(10, 10)                |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 44  | 5<br>(5, 5)                   |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 44  | 5<br>(5, 6)                   |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 1793880<br>(1112795, 2891824) |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 3402410<br>(2325361, 4978321) |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 48  | 3501<br>(1863, 6577)          |
| Age $\geq$ 65 At-risk     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 48  | 5048<br>(2709, 9408)          |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 10<br>(10, 10)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 10<br>(10, 10)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 227 | 5<br>(5, 5)                   |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 227 | 5<br>(5, 5)                   |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76  | 10<br>(10, 10)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)                |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|---------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)             |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)             |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 39  | 5<br>(5, 5)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 39  | 5<br>(5, 5)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 10<br>(10, 10)             |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 10<br>(10, 10)             |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 5<br>(5, 5)                |
| Age $\geq$ 65 Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 5<br>(5, 5)                |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 80069<br>(65707, 97571)    |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 153593<br>(130667, 180543) |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 227 | 332<br>(263, 418)          |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 227 | 421<br>(328, 540)          |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76  | 139826<br>(99996, 195520)  |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|---------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76  | 241494<br>(182978, 318724)    |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 76  | 508<br>(317, 815)             |
| Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 76  | 944<br>(626, 1422)            |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)                |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)                |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 38048<br>(27669, 52321)       |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 59664<br>(45819, 77691)       |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 156<br>(105, 232)             |
| Age $\geq$ 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 257<br>(170, 390)             |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 3441017<br>(2860842, 4138850) |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 7365218<br>(6408010, 8465410) |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 227 | 5534<br>(4137, 7404)          |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 227 | 7125<br>(5468, 9285)          |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                          |
|---------------------------|--------|---------|---------------------|------------------------|----|----------------------------------|
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76 | 7305563<br>(5522547, 9664247)    |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76 | 13343347<br>(11421210, 15588971) |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 76 | 18240<br>(11134, 29880)          |
| Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 76 | 17541<br>(10280, 29932)          |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39 | 10<br>(10, 10)                   |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39 | 10<br>(10, 10)                   |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39 | 5<br>(5, 6)                      |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39 | 5<br>(5, 5)                      |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75 | 1599200<br>(1156266, 2211811)    |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75 | 2437171<br>(1815977, 3270859)    |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75 | 2442<br>(1442, 4134)             |
| Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75 | 3681<br>(2278, 5949)             |

Table 5e. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Sex

| Group | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|-------|-------|---------|---------------------|------------------------|-----|----------------|
| Sex   |       |         |                     |                        |     |                |
| Male  | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 10<br>(10, 10) |
| Male  | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 10<br>(10, 10) |
| Male  | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 395 | 5<br>(5, 5)    |
| Male  | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 395 | 5<br>(5, 5)    |
| Male  | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10) |
| Male  | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10) |
| Male  | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)    |
| Male  | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)    |
| Male  | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 11<br>(9, 12)  |
| Male  | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10) |
| Male  | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)    |
| Male  | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)    |
| Male  | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 10<br>(10, 10) |
| Male  | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 10<br>(10, 10) |
| Male  | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 115 | 5<br>(5, 5)    |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                  |
|-------|--------|---------|---------------------|------------------------|-----|--------------------------|
| Male  | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 115 | 5<br>(5, 5)              |
| Male  | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 25738<br>(20110, 32941)  |
| Male  | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 40290<br>(34397, 47193)  |
| Male  | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 395 | 121<br>(93, 157)         |
| Male  | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 395 | 207<br>(158, 272)        |
| Male  | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 43301<br>(30763, 60949)  |
| Male  | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 83762<br>(65541, 107048) |
| Male  | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 121 | 223<br>(158, 315)        |
| Male  | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 121 | 449<br>(303, 666)        |
| Male  | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 10<br>(10, 10)           |
| Male  | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)           |
| Male  | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)              |
| Male  | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)              |
| Male  | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 12838<br>(8743, 18852)   |
| Male  | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 16359<br>(12044, 22219)  |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Male  | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 115 | 43<br>(29, 63)                |
| Male  | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 115 | 100<br>(68, 146)              |
| Male  | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 1032572<br>(803692, 1326633)  |
| Male  | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 2448348<br>(1992531, 3008439) |
| Male  | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 395 | 1983<br>(1427, 2754)          |
| Male  | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 395 | 2322<br>(1694, 3181)          |
| Male  | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 2628794<br>(1842173, 3751308) |
| Male  | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 5518909<br>(4222583, 7213204) |
| Male  | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 121 | 5567<br>(3235, 9581)          |
| Male  | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 121 | 9590<br>(6259, 14696)         |
| Male  | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 10<br>(10, 10)                |
| Male  | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)                |
| Male  | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)                   |
| Male  | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)                   |
| Male  | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 361345<br>(243436, 536364)    |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|--------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Male   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 578439<br>(406742, 822616) |
| Male   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 115 | 606<br>(358, 1023)         |
| Male   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 115 | 930<br>(554, 1559)         |
| Female | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 10<br>(10, 10)             |
| Female | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 10<br>(10, 10)             |
| Female | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 519 | 5<br>(5, 5)                |
| Female | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 519 | 5<br>(5, 5)                |
| Female | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 10<br>(10, 10)             |
| Female | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 10<br>(10, 10)             |
| Female | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 153 | 5<br>(5, 5)                |
| Female | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 153 | 5<br>(5, 5)                |
| Female | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 10<br>(10, 10)             |
| Female | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 10<br>(10, 10)             |
| Female | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 87  | 5<br>(5, 5)                |
| Female | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 87  | 5<br>(5, 6)                |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                  |
|--------|--------|---------|---------------------|------------------------|-----|--------------------------|
| Female | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 10<br>(10, 10)           |
| Female | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 10<br>(10, 10)           |
| Female | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 155 | 5<br>(5, 5)              |
| Female | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 155 | 5<br>(5, 5)              |
| Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 21234<br>(17837, 25278)  |
| Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 41415<br>(35725, 48012)  |
| Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 519 | 98<br>(80, 120)          |
| Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 519 | 178<br>(145, 218)        |
| Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 32117<br>(22658, 45526)  |
| Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 77611<br>(57216, 105276) |
| Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 153 | 165<br>(113, 242)        |
| Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 153 | 401<br>(268, 602)        |
| Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 10<br>(10, 10)           |
| Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 10<br>(10, 10)           |
| Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 87  | 5<br>(5, 5)              |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|--------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 87  | 5<br>(5, 5)                   |
| Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 12876<br>(9489, 17472)        |
| Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 19468<br>(15496, 24459)       |
| Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 155 | 58<br>(42, 81)                |
| Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 155 | 152<br>(105, 219)             |
| Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 924524<br>(750510, 1138886)   |
| Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 1878895<br>(1586011, 2225864) |
| Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 519 | 1243<br>(972, 1588)           |
| Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 519 | 2160<br>(1643, 2840)          |
| Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 2106655<br>(1490680, 2977161) |
| Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 5236885<br>(3880756, 7066912) |
| Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 153 | 5754<br>(3356, 9868)          |
| Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 153 | 6872<br>(4174, 11314)         |
| Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 10<br>(10, 10)                |
| Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 10<br>(10, 10)                |

(continued)

| Group  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                     |
|--------|--------|---------|---------------------|------------------------|-----|-----------------------------|
| Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 87  | 5<br>(5, 5)                 |
| Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 87  | 5<br>(5, 5)                 |
| Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 396863<br>(289955, 543189)  |
| Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 748414<br>(540245, 1036794) |
| Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 155 | 541<br>(355, 825)           |
| Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 155 | 1659<br>(1064, 2588)        |

Table 5f. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age, sex

| Group           | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|-----------------|-------|---------|---------------------|------------------------|-----|----------------|
| Age, sex        |       |         |                     |                        |     |                |
| Age < 65 Female | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 269 | 5<br>(5, 5)    |
| Age < 65 Female | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 269 | 5<br>(5, 5)    |
| Age < 65 Female | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)    |
| Age < 65 Female | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)    |
| Age < 65 Female | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)    |
| Age < 65 Female | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 6)    |
| Age < 65 Female | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10) |
| Age < 65 Female | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 6)    |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|-----------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 Female | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)             |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 16543<br>(13418, 20396) |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 32705<br>(27399, 39039) |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 269 | 79<br>(62, 101)         |
| Age < 65 Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 269 | 150<br>(118, 191)       |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 21789<br>(14248, 33321) |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 56962<br>(39317, 82526) |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 79  | 124<br>(78, 197)        |
| Age < 65 Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 79  | 319<br>(195, 522)       |
| Age < 65 Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)          |
| Age < 65 Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)          |
| Age < 65 Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)             |
| Age < 65 Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)             |
| Age < 65 Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 10100<br>(6984, 14608)  |
| Age < 65 Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 14961<br>(11369, 19689) |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-----------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 83  | 46<br>(31, 69)                |
| Age < 65 Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 83  | 133<br>(86, 207)              |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 725439<br>(563976, 933126)    |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 1494002<br>(1218429, 1831901) |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 269 | 946<br>(706, 1267)            |
| Age < 65 Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 269 | 1691<br>(1216, 2352)          |
| Age < 65 Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 1557246<br>(1019727, 2378101) |
| Age < 65 Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 4234642<br>(2930914, 6118296) |
| Age < 65 Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 79  | 4195<br>(2173, 8100)          |
| Age < 65 Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 79  | 5422<br>(2964, 9918)          |
| Age < 65 Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)                |
| Age < 65 Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)                |
| Age < 65 Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)                   |
| Age < 65 Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)                   |
| Age < 65 Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 293632<br>(201048, 428852)    |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|-----------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 571578<br>(384900, 848795) |
| Age < 65 Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 83  | 387<br>(233, 641)          |
| Age < 65 Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 83  | 1375<br>(804, 2349)        |
| Age < 65 Male   | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 10)             |
| Age < 65 Male   | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)             |
| Age < 65 Male   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)                |
| Age < 65 Male   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)                |
| Age < 65 Male   | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)             |
| Age < 65 Male   | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)             |
| Age < 65 Male   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)                |
| Age < 65 Male   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)                |
| Age < 65 Male   | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 11<br>(9, 13)              |
| Age < 65 Male   | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 10<br>(10, 10)             |
| Age < 65 Male   | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 28  | 5<br>(5, 5)                |
| Age < 65 Male   | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 28  | 5<br>(5, 5)                |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|---------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 Male | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 10<br>(10, 10)          |
| Age < 65 Male | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 10<br>(10, 10)          |
| Age < 65 Male | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 64  | 5<br>(5, 5)             |
| Age < 65 Male | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 64  | 5<br>(5, 5)             |
| Age < 65 Male | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 18877<br>(13705, 26001) |
| Age < 65 Male | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 29372<br>(24030, 35901) |
| Age < 65 Male | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 163 | 94<br>(67, 132)         |
| Age < 65 Male | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 163 | 169<br>(118, 240)       |
| Age < 65 Male | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 30884<br>(20281, 47031) |
| Age < 65 Male | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 63477<br>(47023, 85688) |
| Age < 65 Male | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 67  | 180<br>(119, 274)       |
| Age < 65 Male | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 67  | 372<br>(229, 604)       |
| Age < 65 Male | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 10<br>(10, 10)          |
| Age < 65 Male | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 10<br>(10, 10)          |
| Age < 65 Male | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 28  | 5<br>(5, 5)             |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|---------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 Male | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 28  | 5<br>(5, 5)                   |
| Age < 65 Male | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 9188<br>(5784, 14598)         |
| Age < 65 Male | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 11210<br>(7775, 16161)        |
| Age < 65 Male | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 64  | 31<br>(20, 50)                |
| Age < 65 Male | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 64  | 73<br>(47, 115)               |
| Age < 65 Male | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 756600<br>(546757, 1046981)   |
| Age < 65 Male | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 1920202<br>(1472176, 2504576) |
| Age < 65 Male | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 163 | 1532<br>(1004, 2337)          |
| Age < 65 Male | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 163 | 1850<br>(1231, 2781)          |
| Age < 65 Male | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 1977267<br>(1268954, 3080952) |
| Age < 65 Male | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 4318054<br>(3077671, 6058343) |
| Age < 65 Male | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 67  | 3857<br>(1960, 7590)          |
| Age < 65 Male | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 67  | 7789<br>(4625, 13117)         |
| Age < 65 Male | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 10<br>(10, 11)                |
| Age < 65 Male | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 10<br>(10, 10)                |

(continued)

| Group         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|---------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 Male | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 28  | 5<br>(5, 5)                |
| Age < 65 Male | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 28  | 5<br>(5, 5)                |
| Age < 65 Male | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 236528<br>(146661, 381460) |
| Age < 65 Male | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 373064<br>(243212, 572245) |
| Age < 65 Male | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 64  | 387<br>(206, 728)          |
| Age < 65 Male | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 64  | 618<br>(331, 1154)         |
| Age ≥ 65 Male | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 10<br>(10, 10)             |
| Age ≥ 65 Male | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 10<br>(10, 10)             |
| Age ≥ 65 Male | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 232 | 5<br>(5, 5)                |
| Age ≥ 65 Male | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 232 | 5<br>(5, 5)                |
| Age ≥ 65 Male | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 10<br>(10, 10)             |
| Age ≥ 65 Male | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 10<br>(10, 10)             |
| Age ≥ 65 Male | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 54  | 5<br>(5, 6)                |
| Age ≥ 65 Male | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 54  | 5<br>(5, 5)                |
| Age ≥ 65 Male | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 10)             |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|--------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 Male | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)             |
| Age $\geq$ 65 Male | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)                |
| Age $\geq$ 65 Male | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)                |
| Age $\geq$ 65 Male | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 10<br>(10, 10)             |
| Age $\geq$ 65 Male | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 10<br>(10, 10)             |
| Age $\geq$ 65 Male | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 51  | 5<br>(5, 6)                |
| Age $\geq$ 65 Male | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 51  | 5<br>(5, 5)                |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 66467<br>(53933, 81913)    |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 105989<br>(87935, 127749)  |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 232 | 259<br>(203, 330)          |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 232 | 390<br>(306, 496)          |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 148457<br>(98119, 224620)  |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 230231<br>(167261, 316907) |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 54  | 482<br>(286, 812)          |
| Age $\geq$ 65 Male | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 54  | 895<br>(560, 1432)         |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                          |
|--------------------|--------|---------|---------------------|------------------------|-----|----------------------------------|
| Age $\geq$ 65 Male | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 10)                   |
| Age $\geq$ 65 Male | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)                   |
| Age $\geq$ 65 Male | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)                      |
| Age $\geq$ 65 Male | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)                      |
| Age $\geq$ 65 Male | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 50082<br>(30542, 82125)          |
| Age $\geq$ 65 Male | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 76189<br>(49115, 118188)         |
| Age $\geq$ 65 Male | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 51  | 147<br>(82, 263)                 |
| Age $\geq$ 65 Male | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 51  | 350<br>(196, 626)                |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 2674328<br>(2152728, 3322311)    |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 5149990<br>(4231902, 6267253)    |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 232 | 4362<br>(3133, 6074)             |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 232 | 4649<br>(3501, 6173)             |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 7426127<br>(5296972, 10411111)   |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 13502491<br>(11607977, 15706205) |
| Age $\geq$ 65 Male | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 54  | 21221<br>(12633, 35647)          |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|----------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age $\geq$ 65 Male   | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 54  | 20477<br>(11619, 36087)       |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 10)                |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)                |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 2027539<br>(1259961, 3262731) |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 3447429<br>(2322804, 5116559) |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 51  | 3730<br>(1880, 7401)          |
| Age $\geq$ 65 Male   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 51  | 4892<br>(2560, 9348)          |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 10<br>(10, 10)                |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 10<br>(10, 10)                |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 250 | 5<br>(5, 5)                   |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 250 | 5<br>(5, 5)                   |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74  | 10<br>(10, 10)                |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74  | 10<br>(10, 10)                |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|----------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 Female | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 74  | 5<br>(5, 6)                |
| Age $\geq$ 65 Female | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 74  | 5<br>(5, 5)                |
| Age $\geq$ 65 Female | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35  | 10<br>(10, 10)             |
| Age $\geq$ 65 Female | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35  | 10<br>(10, 10)             |
| Age $\geq$ 65 Female | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 35  | 5<br>(5, 5)                |
| Age $\geq$ 65 Female | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 35  | 5<br>(5, 5)                |
| Age $\geq$ 65 Female | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 10<br>(10, 10)             |
| Age $\geq$ 65 Female | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 10<br>(10, 10)             |
| Age $\geq$ 65 Female | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 5<br>(5, 5)                |
| Age $\geq$ 65 Female | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 5<br>(5, 5)                |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 64209<br>(53151, 77567)    |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 117943<br>(99447, 139878)  |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 250 | 249<br>(197, 315)          |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 250 | 373<br>(294, 474)          |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74  | 166523<br>(121761, 227741) |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|----------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age $\geq$ 65 Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74  | 288235<br>(216852, 383115)    |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 74  | 553<br>(354, 864)             |
| Age $\geq$ 65 Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 74  | 1062<br>(720, 1566)           |
| Age $\geq$ 65 Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35  | 10<br>(10, 10)                |
| Age $\geq$ 65 Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35  | 10<br>(10, 10)                |
| Age $\geq$ 65 Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 35  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 35  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 37051<br>(27449, 50013)       |
| Age $\geq$ 65 Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 61265<br>(47638, 78789)       |
| Age $\geq$ 65 Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 162<br>(110, 238)             |
| Age $\geq$ 65 Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 271<br>(188, 392)             |
| Age $\geq$ 65 Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 2708471<br>(2228982, 3291105) |
| Age $\geq$ 65 Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 5189777<br>(4355492, 6183867) |
| Age $\geq$ 65 Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 250 | 4169<br>(3097, 5612)          |
| Age $\geq$ 65 Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 250 | 6397<br>(4907, 8340)          |

(continued)

| Group           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                          |
|-----------------|--------|---------|---------------------|------------------------|----|----------------------------------|
| Age ≥ 65 Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74 | 7590360<br>(5921961, 9728799)    |
| Age ≥ 65 Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74 | 12894340<br>(10799304, 15395807) |
| Age ≥ 65 Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 74 | 21984<br>(13986, 34558)          |
| Age ≥ 65 Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 74 | 18779<br>(11189, 31518)          |
| Age ≥ 65 Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35 | 10<br>(10, 10)                   |
| Age ≥ 65 Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35 | 10<br>(10, 10)                   |
| Age ≥ 65 Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 35 | 5<br>(5, 5)                      |
| Age ≥ 65 Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 35 | 5<br>(5, 6)                      |
| Age ≥ 65 Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72 | 1473236<br>(1067157, 2033836)    |
| Age ≥ 65 Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72 | 2420004<br>(1820068, 3217693)    |
| Age ≥ 65 Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72 | 2344<br>(1427, 3849)             |
| Age ≥ 65 Female | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72 | 3767<br>(2352, 6032)             |

Table 5g. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Hispanic or Latino ethnicity

| Group                        | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|------------------------------|-------|---------|---------------------|------------------------|-----|----------------|
| Hispanic or Latino ethnicity |       |         |                     |                        |     |                |
| Hispanic or Latino           | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 136 | 5<br>(5, 5)    |
| Hispanic or Latino           | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 136 | 5<br>(5, 6)    |
| Hispanic or Latino           | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 35  | 5<br>(5, 5)    |
| Hispanic or Latino           | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 35  | 5<br>(5, 5)    |
| Hispanic or Latino           | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 20  | 5<br>(5, 5)    |
| Hispanic or Latino           | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 20  | 5<br>(5, 5)    |
| Hispanic or Latino           | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 10<br>(10, 10) |
| Hispanic or Latino           | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 38  | 6<br>(5, 7)    |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                  |
|--------------------|--------|---------|---------------------|------------------------|-----|--------------------------|
| Hispanic or Latino | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 38  | 5<br>(5, 5)              |
| Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 22266<br>(15847, 31284)  |
| Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 41773<br>(31562, 55289)  |
| Hispanic or Latino | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 136 | 101<br>(67, 152)         |
| Hispanic or Latino | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 136 | 190<br>(126, 284)        |
| Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 57339<br>(30559, 107588) |
| Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 90332<br>(50343, 162084) |
| Hispanic or Latino | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 35  | 254<br>(155, 417)        |
| Hispanic or Latino | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 35  | 498<br>(236, 1049)       |
| Hispanic or Latino | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 10<br>(10, 10)           |
| Hispanic or Latino | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 10<br>(10, 10)           |
| Hispanic or Latino | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 20  | 5<br>(5, 5)              |
| Hispanic or Latino | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 20  | 6<br>(4, 8)              |
| Hispanic or Latino | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 34815<br>(16110, 75239)  |
| Hispanic or Latino | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 26708<br>(12585, 56680)  |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                        |
|--------------------|--------|---------|---------------------|------------------------|-----|--------------------------------|
| Hispanic or Latino | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 38  | 118<br>(42, 327)               |
| Hispanic or Latino | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 38  | 351<br>(151, 818)              |
| Hispanic or Latino | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 1087406<br>(737091, 1604213)   |
| Hispanic or Latino | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 2082654<br>(1564176, 2772993)  |
| Hispanic or Latino | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 136 | 1727<br>(1013, 2946)           |
| Hispanic or Latino | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 136 | 2444<br>(1373, 4350)           |
| Hispanic or Latino | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 2735111<br>(1368395, 5466868)  |
| Hispanic or Latino | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 7578287<br>(5040721, 11393296) |
| Hispanic or Latino | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 35  | 7727<br>(2908, 20532)          |
| Hispanic or Latino | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 35  | 10208<br>(4492, 23195)         |
| Hispanic or Latino | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 10<br>(10, 10)                 |
| Hispanic or Latino | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 10<br>(10, 10)                 |
| Hispanic or Latino | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 20  | 5<br>(5, 5)                    |
| Hispanic or Latino | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 20  | 5<br>(5, 5)                    |
| Hispanic or Latino | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 747435<br>(391924, 1425424)    |

(continued)

| Group                  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                      |
|------------------------|--------|---------|---------------------|------------------------|-----|------------------------------|
| Hispanic or Latino     | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 1403460<br>(609038, 3234119) |
| Hispanic or Latino     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 38  | 1522<br>(466, 4976)          |
| Hispanic or Latino     | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 38  | 3063<br>(1057, 8877)         |
| Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 10<br>(10, 10)               |
| Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 10<br>(10, 10)               |
| Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 690 | 5<br>(5, 5)                  |
| Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 690 | 5<br>(5, 5)                  |
| Not Hispanic or Latino | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 10<br>(10, 10)               |
| Not Hispanic or Latino | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 10<br>(10, 10)               |
| Not Hispanic or Latino | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 217 | 5<br>(5, 5)                  |
| Not Hispanic or Latino | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 217 | 5<br>(5, 5)                  |
| Not Hispanic or Latino | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 10<br>(10, 10)               |
| Not Hispanic or Latino | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 10<br>(10, 10)               |
| Not Hispanic or Latino | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 130 | 5<br>(5, 5)                  |
| Not Hispanic or Latino | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 130 | 5<br>(5, 5)                  |

(continued)

| Group                  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                  |
|------------------------|--------|---------|---------------------|------------------------|-----|--------------------------|
| Not Hispanic or Latino | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 10<br>(10, 10)           |
| Not Hispanic or Latino | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 10<br>(10, 10)           |
| Not Hispanic or Latino | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 214 | 5<br>(5, 5)              |
| Not Hispanic or Latino | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 214 | 5<br>(5, 5)              |
| Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 23020<br>(19425, 27280)  |
| Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 39694<br>(35055, 44946)  |
| Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 690 | 104<br>(86, 125)         |
| Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 690 | 191<br>(158, 230)        |
| Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 35344<br>(26390, 47337)  |
| Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 83383<br>(65546, 106075) |
| Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 217 | 183<br>(133, 251)        |
| Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 217 | 411<br>(294, 575)        |
| Not Hispanic or Latino | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 10<br>(10, 10)           |
| Not Hispanic or Latino | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 10<br>(10, 10)           |
| Not Hispanic or Latino | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 130 | 5<br>(5, 5)              |

(continued)

| Group                  | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Not Hispanic or Latino | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 130 | 5<br>(5, 5)                   |
| Not Hispanic or Latino | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 11608<br>(9046, 14896)        |
| Not Hispanic or Latino | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 18056<br>(14910, 21865)       |
| Not Hispanic or Latino | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 214 | 48<br>(37, 63)                |
| Not Hispanic or Latino | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 214 | 123<br>(92, 165)              |
| Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 987977<br>(822264, 1187086)   |
| Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 2063432<br>(1775937, 2397468) |
| Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 690 | 1500<br>(1191, 1888)          |
| Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 690 | 2270<br>(1788, 2883)          |
| Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 2315554<br>(1731123, 3097290) |
| Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 5301268<br>(4150604, 6770929) |
| Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 217 | 5224<br>(3348, 8151)          |
| Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 217 | 7937<br>(5300, 11886)         |
| Not Hispanic or Latino | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 10<br>(10, 10)                |
| Not Hispanic or Latino | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 10<br>(10, 10)                |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|--------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Not Hispanic or Latino   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 130 | 5<br>(5, 5)                |
| Not Hispanic or Latino   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 130 | 5<br>(5, 5)                |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 381696<br>(293138, 497006) |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 648311<br>(505732, 831086) |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 214 | 555<br>(395, 782)          |
| Not Hispanic or Latino   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 214 | 1324<br>(921, 1904)        |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88  | 10<br>(10, 10)             |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88  | 10<br>(10, 10)             |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 88  | 5<br>(5, 5)                |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 88  | 5<br>(5, 5)                |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22  | 10<br>(10, 10)             |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22  | 10<br>(10, 10)             |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 22  | 6<br>(4, 7)                |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 22  | 5<br>(5, 5)                |
| Not reported and unknown | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13  | 12<br>(8, 18)              |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                 |
|--------------------------|--------|---------|---------------------|------------------------|----|-------------------------|
| Not reported and unknown | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)          |
| Not reported and unknown | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)             |
| Not reported and unknown | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)             |
| Not reported and unknown | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 10<br>(10, 10)          |
| Not reported and unknown | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 10<br>(10, 10)          |
| Not reported and unknown | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 18 | 5<br>(5, 5)             |
| Not reported and unknown | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 18 | 5<br>(5, 5)             |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88 | 22876<br>(15904, 32905) |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88 | 50488<br>(35885, 71034) |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 88 | 133<br>(84, 213)        |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 88 | 174<br>(106, 287)       |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22 | 25827<br>(18334, 36382) |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22 | 46903<br>(33825, 65038) |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 22 | 154<br>(91, 259)        |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 22 | 420<br>(198, 891)       |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                       |
|--------------------------|--------|---------|---------------------|------------------------|----|-------------------------------|
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)                |
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)                |
| Not reported and unknown | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)                   |
| Not reported and unknown | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)                   |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 10750<br>(3611, 32001)        |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 11909<br>(5649, 25107)        |
| Not reported and unknown | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 18 | 37<br>(15, 93)                |
| Not reported and unknown | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 18 | 58<br>(19, 177)               |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88 | 735710<br>(462524, 1170251)   |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88 | 2279592<br>(1446853, 3591615) |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 88 | 1291<br>(765, 2178)           |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 88 | 1748<br>(990, 3088)           |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22 | 1751283<br>(872333, 3515850)  |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22 | 3840709<br>(2197166, 6713669) |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 22 | 8669<br>(2979, 25223)         |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                     |
|--------------------------|--------|---------|---------------------|------------------------|----|-----------------------------|
| Not reported and unknown | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 22 | 5104<br>(2140, 12175)       |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)              |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)              |
| Not reported and unknown | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)                 |
| Not reported and unknown | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)                 |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 162620<br>(55659, 475135)   |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 417076<br>(107739, 1614570) |
| Not reported and unknown | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 18 | 188<br>(46, 766)            |
| Not reported and unknown | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 18 | 437<br>(69, 2773)           |

Table 5h. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Race

| Group              | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|--------------------|-------|---------|---------------------|------------------------|-----|----------------|
| Race               |       |         |                     |                        |     |                |
| White Non-Hispanic | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 5<br>(5, 5)    |
| White Non-Hispanic | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 5<br>(5, 5)    |
| White Non-Hispanic | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)    |
| White Non-Hispanic | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)    |
| White Non-Hispanic | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)    |
| White Non-Hispanic | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 6)    |
| White Non-Hispanic | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10) |
| White Non-Hispanic | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)    |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|--------------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)             |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 23438<br>(18669, 29425) |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 40376<br>(34349, 47460) |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 115<br>(90, 147)        |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 188<br>(146, 241)       |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 30985<br>(21434, 44793) |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 72481<br>(53061, 99008) |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 148<br>(104, 211)       |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 348<br>(226, 535)       |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)          |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)          |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)             |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)             |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10931<br>(7560, 15804)  |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 18868<br>(14808, 24043) |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|--------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 52<br>(37, 74)                |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 107<br>(76, 150)              |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 1035293<br>(809568, 1323956)  |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 2145772<br>(1770774, 2600184) |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 1376<br>(1010, 1874)          |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 2011<br>(1465, 2761)          |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 1943813<br>(1349835, 2799166) |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 4608987<br>(3338577, 6362819) |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 4550<br>(2471, 8378)          |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 7994<br>(4646, 13757)         |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)                |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)                |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)                   |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)                   |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 393045<br>(287516, 537306)    |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|---------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| White Non-Hispanic        | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 674526<br>(485396, 937351) |
| White Non-Hispanic        | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 575<br>(371, 892)          |
| White Non-Hispanic        | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 1478<br>(953, 2292)        |
| Black or African American | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 10<br>(10, 11)             |
| Black or African American | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 10<br>(10, 10)             |
| Black or African American | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 195 | 5<br>(5, 5)                |
| Black or African American | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 195 | 5<br>(5, 5)                |
| Black or African American | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)             |
| Black or African American | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)             |
| Black or African American | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)                |
| Black or African American | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)                |
| Black or African American | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)             |
| Black or African American | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)             |
| Black or African American | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 39  | 5<br>(5, 5)                |
| Black or African American | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 39  | 5<br>(5, 5)                |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                  |
|---------------------------|--------|---------|---------------------|------------------------|-----|--------------------------|
| Black or African American | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 10<br>(10, 10)           |
| Black or African American | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 10<br>(10, 10)           |
| Black or African American | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 60  | 5<br>(5, 6)              |
| Black or African American | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 60  | 5<br>(5, 5)              |
| Black or African American | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 18966<br>(14305, 25146)  |
| Black or African American | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 33478<br>(26923, 41629)  |
| Black or African American | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 195 | 80<br>(57, 111)          |
| Black or African American | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 195 | 168<br>(116, 244)        |
| Black or African American | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 49806<br>(32279, 76849)  |
| Black or African American | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 92510<br>(63827, 134083) |
| Black or African American | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 240<br>(126, 455)        |
| Black or African American | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 595<br>(282, 1255)       |
| Black or African American | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)           |
| Black or African American | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)           |
| Black or African American | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39  | 5<br>(5, 5)              |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|---------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Black or African American | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39  | 5<br>(5, 5)                   |
| Black or African American | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 13142<br>(8909, 19387)        |
| Black or African American | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 17281<br>(11001, 27148)       |
| Black or African American | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60  | 44<br>(24, 81)                |
| Black or African American | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60  | 170<br>(88, 328)              |
| Black or African American | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 700976<br>(482795, 1017755)   |
| Black or African American | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 1698222<br>(1265203, 2279444) |
| Black or African American | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 195 | 1634<br>(1060, 2520)          |
| Black or African American | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 195 | 2461<br>(1568, 3861)          |
| Black or African American | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 3863173<br>(2496394, 5978266) |
| Black or African American | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 5233980<br>(3292870, 8319352) |
| Black or African American | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 9353<br>(5430, 16111)         |
| Black or African American | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 10207<br>(5426, 19200)        |
| Black or African American | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)                |
| Black or African American | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)                |

(continued)

| Group                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                     |
|---------------------------|--------|---------|---------------------|------------------------|----|-----------------------------|
| Black or African American | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39 | 5<br>(5, 5)                 |
| Black or African American | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39 | 5<br>(5, 5)                 |
| Black or African American | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60 | 304404<br>(168043, 551417)  |
| Black or African American | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60 | 604842<br>(358324, 1020956) |
| Black or African American | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60 | 572<br>(270, 1213)          |
| Black or African American | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60 | 1276<br>(599, 2723)         |
| Asian                     | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 10<br>(10, 10)              |
| Asian                     | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 10<br>(10, 10)              |
| Asian                     | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 67 | 5<br>(5, 5)                 |
| Asian                     | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 67 | 5<br>(5, 6)                 |
| Asian                     | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 10<br>(10, 10)              |
| Asian                     | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 10<br>(10, 10)              |
| Asian                     | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 24 | 5<br>(5, 5)                 |
| Asian                     | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 24 | 6<br>(5, 7)                 |
| Asian                     | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)              |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                 |
|-------|--------|---------|---------------------|------------------------|----|-------------------------|
| Asian | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)          |
| Asian | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)             |
| Asian | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)             |
| Asian | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)          |
| Asian | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)          |
| Asian | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)             |
| Asian | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)             |
| Asian | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 33349<br>(22259, 49964) |
| Asian | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 63758<br>(45931, 88504) |
| Asian | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 67 | 144<br>(92, 225)        |
| Asian | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 67 | 330<br>(204, 534)       |
| Asian | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 24553<br>(12536, 48091) |
| Asian | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 49522<br>(26709, 91821) |
| Asian | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 24 | 174<br>(94, 325)        |
| Asian | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 24 | 368<br>(184, 735)       |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                       |
|-------|--------|---------|---------------------|------------------------|----|-------------------------------|
| Asian | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)                |
| Asian | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)                |
| Asian | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 6)                   |
| Asian | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)                   |
| Asian | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 27396<br>(5431, 138186)       |
| Asian | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 12500<br>(4740, 32962)        |
| Asian | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 13 | 65<br>(17, 245)               |
| Asian | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 13 | 146<br>(18, 1215)             |
| Asian | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 1685637<br>(1167594, 2433528) |
| Asian | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 2633046<br>(1864450, 3718486) |
| Asian | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 67 | 2850<br>(1578, 5149)          |
| Asian | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 67 | 3805<br>(1835, 7889)          |
| Asian | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 2094481<br>(742718, 5906481)  |
| Asian | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 4848443<br>(2478358, 9485072) |
| Asian | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 24 | 6020<br>(2360, 15360)         |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                     |
|----------------------------------|--------|---------|---------------------|------------------------|----|-----------------------------|
| Asian                            | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 24 | 8404<br>(2608, 27081)       |
| Asian                            | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)              |
| Asian                            | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)              |
| Asian                            | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)                 |
| Asian                            | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)                 |
| Asian                            | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 750472<br>(176753, 3186420) |
| Asian                            | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 859200<br>(168867, 4371633) |
| Asian                            | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 13 | 482<br>(269, 862)           |
| Asian                            | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 13 | 1167<br>(203, 6693)         |
| American Indian or Alaska Native | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)              |
| American Indian or Alaska Native | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)              |
| American Indian or Alaska Native | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)                 |
| American Indian or Alaska Native | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)                 |
| American Indian or Alaska Native | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 10<br>(10, 10)              |
| American Indian or Alaska Native | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6  | 10<br>(10, 10)              |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                 |
|----------------------------------|--------|---------|---------------------|------------------------|----|-------------------------|
| American Indian or Alaska Native | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 6  | 5<br>(5, 5)             |
| American Indian or Alaska Native | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 6  | 7<br>(4, 14)            |
| American Indian or Alaska Native | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)          |
| American Indian or Alaska Native | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)          |
| American Indian or Alaska Native | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)             |
| American Indian or Alaska Native | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 7)             |
| American Indian or Alaska Native | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4  | 10<br>(10, 10)          |
| American Indian or Alaska Native | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4  | 10<br>(10, 10)          |
| American Indian or Alaska Native | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)             |
| American Indian or Alaska Native | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 4  | 5<br>(5, 5)             |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 42283<br>(20288, 88120) |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 30785<br>(13439, 70516) |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 13 | 186<br>(63, 554)        |
| American Indian or Alaska Native | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 13 | 309<br>(55, 1753)       |
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 22761<br>(8134, 63689)  |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                       |
|----------------------------------|--------|---------|---------------------|------------------------|----|-------------------------------|
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6  | 85898<br>(68138, 108288)      |
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 6  | 244<br>(182, 327)             |
| American Indian or Alaska Native | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 6  | 1338<br>(620, 2888)           |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)                |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)                |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)                   |
| American Indian or Alaska Native | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 5)                   |
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4  | 7559<br>(3837, 14892)         |
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4  | 5348<br>(1735, 16488)         |
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 4  | 13<br>(4, 46)                 |
| American Indian or Alaska Native | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 4  | 79<br>(32, 190)               |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 836025<br>(283249, 2467576)   |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 4760602<br>(2359191, 9606399) |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 13 | 3381<br>(548, 20856)          |
| American Indian or Alaska Native | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 13 | 4097<br>(1137, 14766)         |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                        |
|---|--------|---------|---------------------|------------------------|----|--------------------------------|
| American Indian or Alaska Native          | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 2320038<br>(501453, 10733961)  |
| American Indian or Alaska Native          | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6  | 7507181<br>(3379449, 16676615) |
| American Indian or Alaska Native          | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 6  | 8919<br>(1502, 52953)          |
| American Indian or Alaska Native          | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 6  | 9789<br>(1020, 93964)          |
| American Indian or Alaska Native          | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)                 |
| American Indian or Alaska Native          | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)                 |
| American Indian or Alaska Native          | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)                    |
| American Indian or Alaska Native          | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 5)                    |
| American Indian or Alaska Native          | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4  | 272152<br>(65917, 1123631)     |
| American Indian or Alaska Native          | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4  | 677711<br>(214540, 2140827)    |
| American Indian or Alaska Native          | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 4  | 126<br>(26, 608)               |
| American Indian or Alaska Native          | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 4  | 520<br>(61, 4436)              |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 11<br>(9, 14)                  |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 10<br>(10, 10)                 |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 17 | 6<br>(4, 8)                    |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                   |
|---|--------|---------|---------------------|------------------------|----|---------------------------|
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 17 | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)            |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)            |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1  | 10<br>(10, 10)            |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1  | 10<br>(10, 10)            |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1  | 10<br>(10, 10)            |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1  | 10<br>(10, 10)            |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)               |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 114776<br>(53301, 247155) |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 116196<br>(67714, 199391) |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                        |
|---|--------|---------|---------------------|------------------------|----|--------------------------------|
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 17 | 381<br>(198, 736)              |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 17 | 982<br>(339, 2849)             |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 44998<br>(2885, 701952)        |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5  | 107953<br>(71167, 163752)      |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5  | 227<br>(17, 2989)              |
| Native Hawaiian or Other Pacific Islander | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5  | 489<br>(239, 1000)             |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1  | 10<br>(10, 10)                 |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1  | 10<br>(10, 10)                 |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)                    |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)                    |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1  | 6237<br>(6237, 6237)           |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1  | 10844<br>(10844, 10844)        |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)                    |
| Native Hawaiian or Other Pacific Islander | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)                    |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 5533419<br>(2490433, 12294540) |

(continued)

| Group                                     | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                        |
|---|--------|---------|---------------------|------------------------|----|--------------------------------|
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 7662810<br>(3323463, 17667914) |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 17 | 10464<br>(2274, 48150)         |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 17 | 4635<br>(2089, 10284)          |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 1828480<br>(947016, 3530396)   |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5  | 5139344<br>(595014, 44390337)  |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5  | 2545<br>(185, 35084)           |
| Native Hawaiian or Other Pacific Islander | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5  | 1804<br>(213, 15248)           |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1  | 10<br>(10, 10)                 |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1  | 10<br>(10, 10)                 |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)                    |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)                    |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1  | 4780<br>(4780, 4780)           |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1  | 61376<br>(61376, 61376)        |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 1  | 44<br>(44, 44)                 |
| Native Hawaiian or Other Pacific Islander | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 1  | 144<br>(144, 144)              |

(continued)

| Group       | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC        |
|-------------|-------|---------|---------------------|------------------------|----|----------------|
| Multiracial | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 10<br>(10, 10) |
| Multiracial | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 10<br>(10, 10) |
| Multiracial | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 52 | 5<br>(5, 5)    |
| Multiracial | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 52 | 5<br>(5, 5)    |
| Multiracial | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10) |
| Multiracial | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10) |
| Multiracial | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)    |
| Multiracial | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)    |
| Multiracial | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 10<br>(10, 10) |
| Multiracial | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 10<br>(10, 10) |
| Multiracial | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 8  | 5<br>(5, 5)    |
| Multiracial | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 8  | 5<br>(5, 5)    |
| Multiracial | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 10<br>(10, 10) |
| Multiracial | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 10<br>(10, 10) |
| Multiracial | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 19 | 5<br>(5, 5)    |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                   |
|-------------|--------|---------|---------------------|------------------------|----|---------------------------|
| Multiracial | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 19 | 5<br>(5, 5)               |
| Multiracial | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 21505<br>(13701, 33755)   |
| Multiracial | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 45067<br>(27165, 74765)   |
| Multiracial | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 52 | 71<br>(38, 130)           |
| Multiracial | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 52 | 135<br>(82, 222)          |
| Multiracial | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 55196<br>(16260, 187371)  |
| Multiracial | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 155885<br>(67996, 357377) |
| Multiracial | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 12 | 398<br>(197, 804)         |
| Multiracial | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 12 | 277<br>(153, 502)         |
| Multiracial | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 10<br>(10, 10)            |
| Multiracial | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 10<br>(10, 10)            |
| Multiracial | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 8  | 5<br>(5, 5)               |
| Multiracial | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 8  | 5<br>(5, 5)               |
| Multiracial | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 24792<br>(13458, 45670)   |
| Multiracial | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 25261<br>(11298, 56479)   |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                        |
|-------------|--------|---------|---------------------|------------------------|----|--------------------------------|
| Multiracial | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 19 | 51<br>(28, 93)                 |
| Multiracial | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 19 | 190<br>(60, 600)               |
| Multiracial | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 1262157<br>(710446, 2242309)   |
| Multiracial | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 2195866<br>(1476648, 3265387)  |
| Multiracial | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 52 | 1524<br>(697, 3334)            |
| Multiracial | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 52 | 1963<br>(778, 4953)            |
| Multiracial | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 3777504<br>(1786314, 7988255)  |
| Multiracial | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 8118223<br>(3167974, 20803689) |
| Multiracial | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 12 | 2411<br>(687, 8455)            |
| Multiracial | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 12 | 10135<br>(6049, 16979)         |
| Multiracial | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 10<br>(10, 10)                 |
| Multiracial | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 10<br>(10, 10)                 |
| Multiracial | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 8  | 5<br>(5, 5)                    |
| Multiracial | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 8  | 5<br>(5, 5)                    |
| Multiracial | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 693982<br>(285837, 1684912)    |

(continued)

| Group       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                     |
|-------------|--------|---------|---------------------|------------------------|----|-----------------------------|
| Multiracial | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 791515<br>(327732, 1911609) |
| Multiracial | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 19 | 1034<br>(211, 5057)         |
| Multiracial | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 19 | 2744<br>(676, 11140)        |
| Other       | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 10<br>(10, 10)              |
| Other       | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 10<br>(10, 10)              |
| Other       | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 34 | 5<br>(5, 5)                 |
| Other       | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 34 | 6<br>(5, 7)                 |
| Other       | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 10<br>(10, 10)              |
| Other       | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 10<br>(10, 10)              |
| Other       | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7  | 5<br>(5, 5)                 |
| Other       | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 7  | 5<br>(5, 5)                 |
| Other       | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 10<br>(10, 10)              |
| Other       | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 10<br>(10, 10)              |
| Other       | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)                 |
| Other       | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 4  | 6<br>(4, 8)                 |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                  |
|-------|--------|---------|---------------------|------------------------|----|--------------------------|
| Other | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)           |
| Other | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)           |
| Other | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)              |
| Other | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 5)              |
| Other | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 22295<br>(11570, 42963)  |
| Other | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 38007<br>(21259, 67950)  |
| Other | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 34 | 118<br>(54, 259)         |
| Other | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 34 | 254<br>(100, 650)        |
| Other | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 18039<br>(7489, 43449)   |
| Other | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 75844<br>(32129, 179037) |
| Other | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7  | 63<br>(18, 221)          |
| Other | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 7  | 283<br>(86, 936)         |
| Other | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 10<br>(10, 10)           |
| Other | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 10<br>(10, 10)           |
| Other | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)              |

(continued)

| Group | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                        |
|-------|--------|---------|---------------------|------------------------|----|--------------------------------|
| Other | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 4  | 5<br>(5, 5)                    |
| Other | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 49870<br>(993, 2505753)        |
| Other | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 40496<br>(1871, 876366)        |
| Other | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5  | 221<br>(12, 4185)              |
| Other | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5  | 295<br>(27, 3229)              |
| Other | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 959325<br>(467189, 1969877)    |
| Other | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 2238776<br>(1221484, 4103302)  |
| Other | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 34 | 1974<br>(715, 5452)            |
| Other | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 34 | 3391<br>(1017, 11315)          |
| Other | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 4612046<br>(1663462, 12787169) |
| Other | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 5745695<br>(3340937, 9881364)  |
| Other | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7  | 2543<br>(573, 11275)           |
| Other | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 7  | 4503<br>(1467, 13817)          |
| Other | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 10<br>(10, 10)                 |
| Other | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 10<br>(10, 10)                 |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                      |
|--------------------------|--------|---------|---------------------|------------------------|----|------------------------------|
| Other                    | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)                  |
| Other                    | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 4  | 5<br>(5, 5)                  |
| Other                    | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 390164<br>(12362, 12313729)  |
| Other                    | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 1950467<br>(62864, 60516607) |
| Other                    | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5  | 6112<br>(27, 1395272)        |
| Other                    | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5  | 1609<br>(34, 75283)          |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 10<br>(10, 10)               |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 10<br>(10, 10)               |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 87 | 5<br>(5, 5)                  |
| Not reported and unknown | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 87 | 5<br>(5, 5)                  |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 10<br>(10, 10)               |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 10<br>(10, 10)               |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 20 | 6<br>(5, 7)                  |
| Not reported and unknown | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 20 | 5<br>(5, 5)                  |
| Not reported and unknown | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 10<br>(10, 10)               |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                   |
|--------------------------|--------|---------|---------------------|------------------------|----|---------------------------|
| Not reported and unknown | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 10<br>(10, 10)            |
| Not reported and unknown | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 14 | 5<br>(5, 5)               |
| Not reported and unknown | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 14 | 5<br>(5, 5)               |
| Not reported and unknown | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 10<br>(10, 10)            |
| Not reported and unknown | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 10<br>(10, 10)            |
| Not reported and unknown | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 24 | 6<br>(5, 7)               |
| Not reported and unknown | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 24 | 5<br>(5, 6)               |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 19972<br>(12070, 33047)   |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 41499<br>(27382, 62895)   |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 87 | 85<br>(51, 144)           |
| Not reported and unknown | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 87 | 167<br>(114, 245)         |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 57668<br>(23639, 140684)  |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 112437<br>(52711, 239834) |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 20 | 348<br>(94, 1295)         |
| Not reported and unknown | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 20 | 581<br>(199, 1695)        |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                        |
|--------------------------|--------|---------|---------------------|------------------------|----|--------------------------------|
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 10<br>(10, 10)                 |
| Not reported and unknown | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 10<br>(10, 10)                 |
| Not reported and unknown | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 14 | 5<br>(5, 6)                    |
| Not reported and unknown | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 14 | 5<br>(5, 5)                    |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 11890<br>(6465, 21867)         |
| Not reported and unknown | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 17779<br>(10512, 30069)        |
| Not reported and unknown | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 24 | 46<br>(19, 111)                |
| Not reported and unknown | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 24 | 168<br>(59, 476)               |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 958206<br>(602856, 1523015)    |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 1898203<br>(1201387, 2999181)  |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 87 | 1331<br>(758, 2339)            |
| Not reported and unknown | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 87 | 2345<br>(1156, 4755)           |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 3239260<br>(1199389, 8748461)  |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 9280577<br>(5784309, 14890128) |
| Not reported and unknown | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 20 | 11045<br>(3104, 39295)         |

(continued)

| Group                    | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                     |
|--------------------------|--------|---------|---------------------|------------------------|----|-----------------------------|
| Not reported and unknown | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 20 | 5210<br>(1481, 18320)       |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 10<br>(10, 10)              |
| Not reported and unknown | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 10<br>(10, 10)              |
| Not reported and unknown | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 14 | 5<br>(5, 5)                 |
| Not reported and unknown | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 14 | 5<br>(5, 5)                 |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 401782<br>(153583, 1051084) |
| Not reported and unknown | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 645039<br>(295340, 1408800) |
| Not reported and unknown | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 24 | 485<br>(159, 1481)          |
| Not reported and unknown | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 24 | 1124<br>(299, 4219)         |

Table 5i. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Underrepresented minority status

| Group                            | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|----------------------------------|-------|---------|---------------------|------------------------|-----|----------------|
| Underrepresented minority status |       |         |                     |                        |     |                |
| Communities of Color             | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 420 | 5<br>(5, 5)    |
| Communities of Color             | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 420 | 5<br>(5, 5)    |
| Communities of Color             | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 120 | 5<br>(5, 5)    |
| Communities of Color             | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 120 | 5<br>(5, 6)    |
| Communities of Color             | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)    |
| Communities of Color             | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)    |
| Communities of Color             | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 10<br>(10, 10) |
| Communities of Color             | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 111 | 5<br>(5, 6)    |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                  |
|----------------------|--------|---------|---------------------|------------------------|-----|--------------------------|
| Communities of Color | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 111 | 5<br>(5, 5)              |
| Communities of Color | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 23355<br>(19242, 28347)  |
| Communities of Color | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 40216<br>(34320, 47124)  |
| Communities of Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 420 | 99<br>(79, 124)          |
| Communities of Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 420 | 208<br>(163, 266)        |
| Communities of Color | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 44605<br>(32113, 61955)  |
| Communities of Color | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 90964<br>(70627, 117156) |
| Communities of Color | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 120 | 238<br>(171, 332)        |
| Communities of Color | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 120 | 545<br>(371, 802)        |
| Communities of Color | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)           |
| Communities of Color | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)           |
| Communities of Color | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)              |
| Communities of Color | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 6)              |
| Communities of Color | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 17596<br>(12331, 25109)  |
| Communities of Color | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 18884<br>(13334, 26743)  |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|----------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Communities of Color | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 111 | 54<br>(34, 84)                |
| Communities of Color | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 111 | 178<br>(110, 288)             |
| Communities of Color | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 977894<br>(775549, 1233031)   |
| Communities of Color | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 2083276<br>(1732503, 2505069) |
| Communities of Color | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 420 | 1903<br>(1416, 2557)          |
| Communities of Color | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 420 | 2744<br>(2021, 3725)          |
| Communities of Color | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 3146770<br>(2273084, 4356267) |
| Communities of Color | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 5991417<br>(4527248, 7929117) |
| Communities of Color | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 120 | 7086<br>(4582, 10956)         |
| Communities of Color | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 120 | 8885<br>(5903, 13374)         |
| Communities of Color | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)                |
| Communities of Color | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)                |
| Communities of Color | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)                   |
| Communities of Color | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)                   |
| Communities of Color | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 397884<br>(256621, 616908)    |

(continued)

| Group                | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                     |
|----------------------|--------|---------|---------------------|------------------------|-----|-----------------------------|
| Communities of Color | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 734879<br>(489927, 1102301) |
| Communities of Color | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 111 | 684<br>(382, 1222)          |
| Communities of Color | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 111 | 1409<br>(809, 2454)         |
| White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 10<br>(10, 10)              |
| White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 10<br>(10, 10)              |
| White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 5<br>(5, 5)                 |
| White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 5<br>(5, 5)                 |
| White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)              |
| White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)              |
| White Non-Hispanic   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)                 |
| White Non-Hispanic   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)                 |
| White Non-Hispanic   | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)              |
| White Non-Hispanic   | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)              |
| White Non-Hispanic   | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)                 |
| White Non-Hispanic   | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 6)                 |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|--------------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| White Non-Hispanic | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)          |
| White Non-Hispanic | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)          |
| White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)             |
| White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)             |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 23438<br>(18669, 29425) |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 40376<br>(34349, 47460) |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 115<br>(90, 147)        |
| White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 188<br>(146, 241)       |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 30985<br>(21434, 44793) |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 72481<br>(53061, 99008) |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 148<br>(104, 211)       |
| White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 348<br>(226, 535)       |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)          |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)          |
| White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)             |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|--------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)                   |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10931<br>(7560, 15804)        |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 18868<br>(14808, 24043)       |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 52<br>(37, 74)                |
| White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 107<br>(76, 150)              |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 1035293<br>(809568, 1323956)  |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 2145772<br>(1770774, 2600184) |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 1376<br>(1010, 1874)          |
| White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 2011<br>(1465, 2761)          |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 1943813<br>(1349835, 2799166) |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 4608987<br>(3338577, 6362819) |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 4550<br>(2471, 8378)          |
| White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 7994<br>(4646, 13757)         |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)                |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)                |

(continued)

| Group              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|--------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)                |
| White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)                |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 393045<br>(287516, 537306) |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 674526<br>(485396, 937351) |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 575<br>(371, 892)          |
| White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 1478<br>(953, 2292)        |

Table 5j. Geometric mean titers (GMTs) and geometric mean concentrations (GMCs) by Age, Underrepresented minority status

| Group                                 | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC        |
|---------------------------------------|-------|---------|---------------------|------------------------|-----|----------------|
| Age, Underrepresented minority status |       |         |                     |                        |     |                |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 192 | 5<br>(5, 5)    |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 192 | 5<br>(5, 5)    |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 69  | 5<br>(5, 5)    |
| Age < 65 Communities of Color         | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 69  | 5<br>(5, 6)    |
| Age < 65 Communities of Color         | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 37  | 5<br>(5, 5)    |
| Age < 65 Communities of Color         | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 37  | 5<br>(5, 5)    |
| Age < 65 Communities of Color         | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 10<br>(10, 10) |
| Age < 65 Communities of Color         | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 5<br>(5, 6)    |

(continued)

| Group                         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|-------------------------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 Communities of Color | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 5<br>(5, 5)             |
| Age < 65 Communities of Color | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 17593<br>(13852, 22344) |
| Age < 65 Communities of Color | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 30531<br>(25113, 37119) |
| Age < 65 Communities of Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 192 | 76<br>(58, 101)         |
| Age < 65 Communities of Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 192 | 174<br>(128, 236)       |
| Age < 65 Communities of Color | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 34937<br>(23612, 51692) |
| Age < 65 Communities of Color | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 70998<br>(52424, 96153) |
| Age < 65 Communities of Color | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 69  | 209<br>(141, 310)       |
| Age < 65 Communities of Color | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 69  | 484<br>(305, 768)       |
| Age < 65 Communities of Color | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 10<br>(10, 10)          |
| Age < 65 Communities of Color | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 10<br>(10, 10)          |
| Age < 65 Communities of Color | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 37  | 5<br>(5, 5)             |
| Age < 65 Communities of Color | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 37  | 5<br>(5, 6)             |
| Age < 65 Communities of Color | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 13618<br>(8923, 20783)  |
| Age < 65 Communities of Color | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 13717<br>(9065, 20756)  |

(continued)

| Group                         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-------------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 Communities of Color | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 42<br>(25, 72)                |
| Age < 65 Communities of Color | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 150<br>(84, 267)              |
| Age < 65 Communities of Color | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 741900<br>(555661, 990562)    |
| Age < 65 Communities of Color | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 1629402<br>(1297120, 2046806) |
| Age < 65 Communities of Color | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 192 | 1435<br>(996, 2067)           |
| Age < 65 Communities of Color | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 192 | 2230<br>(1526, 3260)          |
| Age < 65 Communities of Color | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 2542683<br>(1712040, 3776334) |
| Age < 65 Communities of Color | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 5081700<br>(3610831, 7151727) |
| Age < 65 Communities of Color | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 69  | 5550<br>(3299, 9337)          |
| Age < 65 Communities of Color | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 69  | 7380<br>(4562, 11940)         |
| Age < 65 Communities of Color | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 10<br>(10, 10)                |
| Age < 65 Communities of Color | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 10<br>(10, 10)                |
| Age < 65 Communities of Color | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 37  | 5<br>(5, 5)                   |
| Age < 65 Communities of Color | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 37  | 5<br>(5, 5)                   |
| Age < 65 Communities of Color | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 277278<br>(163947, 468952)    |

(continued)

| Group                         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|-------------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 Communities of Color | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 543679<br>(333997, 884998) |
| Age < 65 Communities of Color | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 466<br>(233, 933)          |
| Age < 65 Communities of Color | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 1073<br>(554, 2078)        |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 10<br>(10, 10)             |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 10<br>(10, 10)             |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 175 | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 175 | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 10<br>(10, 10)             |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59  | 10<br>(10, 10)             |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 59  | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 59  | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31  | 10<br>(10, 10)             |
| Age < 65 White Non-Hispanic   | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31  | 10<br>(10, 10)             |
| Age < 65 White Non-Hispanic   | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 31  | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 31  | 5<br>(5, 6)                |

(continued)

| Group                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                 |
|-----------------------------|--------|---------|---------------------|------------------------|-----|-------------------------|
| Age < 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 10<br>(10, 10)          |
| Age < 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 10<br>(10, 10)          |
| Age < 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 5<br>(5, 5)             |
| Age < 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 5<br>(5, 5)             |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 18239<br>(13758, 24181) |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 31442<br>(25791, 38330) |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 175 | 98<br>(72, 132)         |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 175 | 163<br>(120, 222)       |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 19045<br>(11981, 30275) |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59  | 50450<br>(34089, 74664) |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 59  | 100<br>(65, 155)        |
| Age < 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 59  | 255<br>(148, 438)       |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31  | 10<br>(10, 10)          |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31  | 10<br>(10, 10)          |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 31  | 5<br>(5, 5)             |

(continued)

| Group                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-----------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 31  | 5<br>(5, 5)                   |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 7844<br>(4943, 12447)         |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 13337<br>(9897, 17972)        |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 38<br>(25, 58)                |
| Age < 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 78<br>(51, 118)               |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 821667<br>(605817, 1114423)   |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 1724310<br>(1360533, 2185355) |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 175 | 1085<br>(742, 1587)           |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 175 | 1624<br>(1097, 2405)          |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 1330657<br>(839177, 2109982)  |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59  | 3419951<br>(2265916, 5161739) |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 59  | 2838<br>(1308, 6159)          |
| Age < 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 59  | 6125<br>(3095, 12121)         |
| Age < 65 White Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31  | 10<br>(10, 10)                |
| Age < 65 White Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31  | 10<br>(10, 10)                |

(continued)

| Group                         | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|-------------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age < 65 White Non-Hispanic   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 31  | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 31  | 5<br>(5, 5)                |
| Age < 65 White Non-Hispanic   | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 264698<br>(179593, 390131) |
| Age < 65 White Non-Hispanic   | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 451492<br>(299075, 681584) |
| Age < 65 White Non-Hispanic   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 376<br>(219, 646)          |
| Age < 65 White Non-Hispanic   | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 1102<br>(639, 1903)        |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 10<br>(10, 10)             |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 10<br>(10, 10)             |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 228 | 5<br>(5, 5)                |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 228 | 5<br>(5, 5)                |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 10<br>(10, 10)             |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 10<br>(10, 10)             |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 51  | 5<br>(5, 6)                |
| Age ≥ 65 Communities of Color | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 51  | 5<br>(5, 5)                |
| Age ≥ 65 Communities of Color | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)             |

(continued)

| Group                              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|------------------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)             |
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)                |
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)                |
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50  | 10<br>(10, 10)             |
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50  | 10<br>(10, 10)             |
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 50  | 5<br>(5, 5)                |
| Age $\geq$ 65 Communities of Color | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 50  | 5<br>(5, 6)                |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 67566<br>(54928, 83111)    |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 113000<br>(94968, 134457)  |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 228 | 263<br>(208, 334)          |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 228 | 409<br>(322, 520)          |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 127850<br>(82403, 198362)  |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 264698<br>(193965, 361225) |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 51  | 414<br>(254, 674)          |
| Age $\geq$ 65 Communities of Color | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 51  | 911<br>(557, 1491)         |

(continued)

| Group                              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                         |
|------------------------------------|--------|---------|---------------------|------------------------|-----|---------------------------------|
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)                  |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)                  |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)                     |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)                     |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50  | 57615<br>(37847, 87707)         |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50  | 82913<br>(55530, 123801)        |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 50  | 167<br>(101, 276)               |
| Age $\geq$ 65 Communities of Color | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 50  | 390<br>(234, 650)               |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 2754587<br>(2268630, 3344640)   |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 5234940<br>(4335352, 6321193)   |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 228 | 5478<br>(4015, 7473)            |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 228 | 5966<br>(4475, 7954)            |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 7886529<br>(5982602, 10396367)  |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 12184499<br>(9858697, 15058989) |
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 51  | 20307<br>(11438, 36054)         |

(continued)

| Group                              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|------------------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age $\geq$ 65 Communities of Color | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 51  | 19769<br>(10376, 37665)       |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)                |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)                |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)                   |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50  | 2116643<br>(1388474, 3226693) |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50  | 2964324<br>(2089369, 4205680) |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 50  | 4026<br>(2199, 7373)          |
| Age $\geq$ 65 Communities of Color | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 50  | 4985<br>(2691, 9234)          |
| Age $\geq$ 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 10<br>(10, 10)                |
| Age $\geq$ 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 10<br>(10, 10)                |
| Age $\geq$ 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 187 | 5<br>(5, 5)                   |
| Age $\geq$ 65 White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 187 | 5<br>(5, 5)                   |
| Age $\geq$ 65 White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66  | 10<br>(10, 10)                |
| Age $\geq$ 65 White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66  | 10<br>(10, 10)                |

(continued)

| Group                            | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                    |
|----------------------------------|--------|---------|---------------------|------------------------|-----|----------------------------|
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 66  | 5<br>(5, 6)                |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID80   | 66  | 5<br>(5, 5)                |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)             |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)             |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)                |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)                |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 10<br>(10, 10)             |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 10<br>(10, 10)             |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 60  | 5<br>(5, 5)                |
| Age $\geq$ 65 White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 60  | 5<br>(5, 5)                |
| Age $\geq$ 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 60501<br>(48781, 75037)    |
| Age $\geq$ 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 103956<br>(85919, 125780)  |
| Age $\geq$ 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 187 | 214<br>(164, 280)          |
| Age $\geq$ 65 White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 187 | 317<br>(243, 412)          |
| Age $\geq$ 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66  | 171330<br>(122104, 240402) |

(continued)

| Group                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | GMT/GMC                       |
|-----------------------------|--------|---------|---------------------|------------------------|-----|-------------------------------|
| Age ≥ 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66  | 258922<br>(193660, 346179)    |
| Age ≥ 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 66  | 575<br>(355, 932)             |
| Age ≥ 65 White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 66  | 1037<br>(709, 1518)           |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)                |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)                |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)                   |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)                   |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 34684<br>(23682, 50795)       |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 63090<br>(45886, 86746)       |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60  | 160<br>(99, 257)              |
| Age ≥ 65 White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60  | 323<br>(207, 502)             |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 2480906<br>(1963293, 3134986) |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 4905828<br>(4009921, 6001900) |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 187 | 3376<br>(2393, 4763)          |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 187 | 4511<br>(3339, 6096)          |

(continued)

| Group                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | GMT/GMC                          |
|-----------------------------|--------|---------|---------------------|------------------------|----|----------------------------------|
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66 | 7361735<br>(5495760, 9861264)    |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66 | 13150407<br>(11178796, 15469753) |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 66 | 23885<br>(15539, 36713)          |
| Age ≥ 65 White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 66 | 20383<br>(12350, 33642)          |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36 | 10<br>(10, 10)                   |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36 | 10<br>(10, 10)                   |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36 | 5<br>(5, 5)                      |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36 | 5<br>(5, 6)                      |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60 | 1555275<br>(1070146, 2260326)    |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60 | 2726537<br>(1931325, 3849174)    |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60 | 2516<br>(1427, 4435)             |
| Age ≥ 65 White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60 | 4096<br>(2471, 6792)             |

Table 6a. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by All participants

| Group            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| All participants |                       |         |                     |                        |     |                  |                         |                               |
|                  | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 10<br>(10, 10)   | 22926<br>(19863, 26460) | 2279.09<br>(1975.09, 2629.88) |
|                  | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 10<br>(10, 10)   | 40963<br>(36741, 45671) | 4091.68<br>(3670.04, 4561.76) |
|                  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 914 | 5<br>(5, 5)      | 106<br>(91, 125)        | 21.01<br>(17.90, 24.67)       |
|                  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 914 | 5<br>(5, 5)      | 189<br>(161, 222)       | 37.28<br>(31.71, 43.83)       |
|                  | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 10<br>(10, 10)   | 36133<br>(28182, 46328) | 3613.33<br>(2818.21, 4632.79) |
|                  | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 10<br>(10, 10)   | 79981<br>(65041, 98352) | 7998.08<br>(6504.13, 9835.19) |
|                  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 274 | 5<br>(5, 5)      | 186<br>(142, 243)       | 36.50<br>(27.92, 47.71)       |
|                  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 274 | 5<br>(5, 5)      | 420<br>(314, 560)       | 82.61<br>(61.87, 110.32)      |
|                  | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 11)   | 10<br>(10, 10)          | 0.98<br>(0.95, 1.02)          |
|                  | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)   | 10<br>(10, 10)          | 0.99<br>(0.98, 1.01)          |
|                  | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.01<br>(0.99, 1.02)          |
|                  | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)      | 5<br>(5, 5)             | 0.99<br>(0.95, 1.04)          |
|                  | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 10<br>(10, 10)   | 12861<br>(10150, 16296) | 1284.22<br>(1013.60, 1627.09) |
|                  | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 270 | 10<br>(10, 10)   | 18191<br>(15159, 21829) | 1819.07<br>(1515.87, 2182.92) |
|                  | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 270 | 5<br>(5, 5)      | 51<br>(40, 66)          | 9.99<br>(7.85, 12.73)         |

(continued)

| Group | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
|       | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 270 | 5<br>(5, 5)      | 129<br>(98, 169)              | 25.46<br>(19.48, 33.27)             |
|       | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 914 | 10<br>(10, 10)   | 966160<br>(823437, 1133621)   | 96047.59<br>(81866.19, 112685.58)   |
|       | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 914 | 10<br>(10, 10)   | 2087965<br>(1831068, 2380904) | 208560.44<br>(182899.78, 237821.27) |
|       | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 914 | 5<br>(5, 5)      | 1497<br>(1228, 1825)          | 295.67<br>(242.59, 360.37)          |
|       | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 914 | 5<br>(5, 5)      | 2223<br>(1809, 2733)          | 438.66<br>(357.19, 538.72)          |
|       | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 274 | 10<br>(10, 10)   | 2298869<br>(1785648, 2959596) | 229886.89<br>(178564.83, 295959.65) |
|       | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 274 | 10<br>(10, 10)   | 5346334<br>(4339333, 6587023) | 534633.43<br>(433933.34, 658702.34) |
|       | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 274 | 5<br>(5, 5)      | 5680<br>(3863, 8351)          | 1114.53<br>(761.21, 1631.83)        |
|       | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 274 | 5<br>(5, 5)      | 7837<br>(5545, 11076)         | 1542.78<br>(1091.92, 2179.81)       |
|       | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 11)   | 10<br>(10, 10)                | 0.99<br>(0.95, 1.02)                |
|       | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)   | 10<br>(10, 10)                | 0.99<br>(0.98, 1.01)                |
|       | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(0.99, 1.02)                |
|       | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.99<br>(0.95, 1.03)                |
|       | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 270 | 10<br>(10, 10)   | 382614<br>(299829, 488256)    | 38205.28<br>(29939.10, 48753.76)    |
|       | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 270 | 10<br>(10, 10)   | 676872<br>(531354, 862241)    | 67687.19<br>(53135.41, 86224.15)    |

(continued)

| Group | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker               | N   | Baseline GMT/GMC | Post Baseline GMT/GMC | GMTR/GMCR                  |
|-------|-----------------------|---------|---------------------|----------------------|-----|------------------|-----------------------|----------------------------|
|       | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50 | 270 | 5<br>(5, 5)      | 566<br>(409, 783)     | 109.82<br>(79.77, 151.19)  |
|       | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80 | 270 | 5<br>(5, 5)      | 1324<br>(937, 1870)   | 261.17<br>(185.46, 367.79) |

Table 6b. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age

| Group      | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| <b>Age</b> |                       |         |                     |                        |     |                  |                         |                               |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 10<br>(10, 10)   | 17393<br>(14565, 20770) | 1728.59<br>(1447.96, 2063.60) |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 10<br>(10, 10)   | 31397<br>(27475, 35879) | 3139.72<br>(2747.52, 3587.91) |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 432 | 5<br>(5, 5)      | 85<br>(69, 103)         | 16.72<br>(13.72, 20.38)       |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 432 | 5<br>(5, 5)      | 157<br>(129, 192)       | 31.07<br>(25.45, 37.94)       |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 10<br>(10, 10)   | 24939<br>(18393, 33814) | 2493.88<br>(1839.31, 3381.39) |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 10<br>(10, 10)   | 59400<br>(46119, 76506) | 5940.04<br>(4611.93, 7650.60) |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 146 | 5<br>(5, 5)      | 144<br>(104, 198)       | 28.34<br>(20.48, 39.21)       |
| Age < 65   | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 146 | 5<br>(5, 5)      | 339<br>(238, 482)       | 66.39<br>(46.61, 94.58)       |
| Age < 65   | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 10<br>(10, 11)   | 10<br>(10, 10)          | 0.98<br>(0.93, 1.02)          |
| Age < 65   | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 10<br>(10, 10)   | 10<br>(10, 10)          | 0.99<br>(0.98, 1.01)          |
| Age < 65   | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 80  | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.00<br>(0.98, 1.03)          |
| Age < 65   | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 80  | 5<br>(5, 5)      | 5<br>(5, 5)             | 0.99<br>(0.93, 1.06)          |
| Age < 65   | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 10<br>(10, 10)   | 9737<br>(7318, 12957)   | 973.73<br>(731.75, 1295.73)   |
| Age < 65   | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 10<br>(10, 10)   | 13380<br>(10752, 16650) | 1337.99<br>(1075.18, 1665.05) |
| Age < 65   | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 5<br>(5, 5)      | 40<br>(29, 54)          | 7.70<br>(5.77, 10.28)         |

(continued)

| Group    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|----------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65 | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 5<br>(5, 5)      | 106<br>(76, 147)              | 20.88<br>(15.13, 28.82)             |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 432 | 10<br>(10, 10)   | 737116<br>(604473, 898866)    | 73258.07<br>(60080.95, 89325.22)    |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 432 | 10<br>(10, 10)   | 1643373<br>(1397160, 1932976) | 164337.35<br>(139715.98, 193297.60) |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 432 | 5<br>(5, 5)      | 1136<br>(890, 1449)           | 224.61<br>(176.12, 286.46)          |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 432 | 5<br>(5, 5)      | 1750<br>(1355, 2260)          | 346.17<br>(268.34, 446.58)          |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 146 | 10<br>(10, 10)   | 1708031<br>(1250384, 2333179) | 170803.11<br>(125038.42, 233317.89) |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 146 | 10<br>(10, 10)   | 4266733<br>(3292306, 5529560) | 426673.25<br>(329230.63, 552956.04) |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 146 | 5<br>(5, 5)      | 4061<br>(2527, 6527)          | 801.35<br>(501.10, 1281.50)         |
| Age < 65 | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 146 | 5<br>(5, 5)      | 6238<br>(4090, 9513)          | 1223.09<br>(802.31, 1864.58)        |
| Age < 65 | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 80  | 10<br>(10, 11)   | 10<br>(10, 10)                | 0.98<br>(0.93, 1.03)                |
| Age < 65 | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 80  | 10<br>(10, 10)   | 10<br>(10, 10)                | 0.99<br>(0.98, 1.01)                |
| Age < 65 | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 80  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(0.98, 1.01)                |
| Age < 65 | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 80  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.98<br>(0.93, 1.03)                |
| Age < 65 | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 10<br>(10, 10)   | 270061<br>(201183, 362521)    | 27006.13<br>(20118.30, 36252.12)    |
| Age < 65 | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 10<br>(10, 10)   | 484596<br>(361146, 650244)    | 48459.60<br>(36114.65, 65024.40)    |

(continued)

| Group    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|----------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65 | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 5<br>(5, 5)      | 387<br>(262, 572)          | 75.13<br>(51.19, 110.26)         |
| Age < 65 | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 5<br>(5, 5)      | 1009<br>(665, 1531)        | 199.32<br>(131.81, 301.41)       |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 10<br>(10, 10)   | 65260<br>(56734, 75068)    | 6494.31<br>(5646.18, 7469.84)    |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 10<br>(10, 10)   | 112166<br>(98902, 127209)  | 11156.00<br>(9843.59, 12643.39)  |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 482 | 5<br>(5, 5)      | 254<br>(214, 300)          | 49.89<br>(42.15, 59.05)          |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 482 | 5<br>(5, 5)      | 381<br>(321, 451)          | 74.35<br>(62.85, 87.96)          |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 10<br>(10, 10)   | 158619<br>(123545, 203649) | 15861.86<br>(12354.53, 20364.88) |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 10<br>(10, 10)   | 262073<br>(211994, 323982) | 26207.29<br>(21199.35, 32398.25) |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 128 | 5<br>(5, 5)      | 522<br>(373, 731)          | 100.15<br>(72.09, 139.12)        |
| Age ≥ 65 | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 128 | 5<br>(5, 5)      | 988<br>(733, 1331)         | 197.60<br>(146.66, 266.24)       |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.02<br>(0.99, 1.04)             |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.00<br>(0.98, 1.03)             |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 10<br>(10, 10)   | 41836<br>(32047, 54614)    | 4151.56<br>(3184.55, 5412.22)    |

(continued)

| Group    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC            | GMTR/GMCR                              |
|----------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------------|--|
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 10<br>(10, 10)   | 66891<br>(53117, 84238)          | 6689.12<br>(5311.68, 8423.77)          |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 5<br>(5, 5)      | 156<br>(112, 216)                | 30.24<br>(21.85, 41.85)                |
| Age ≥ 65 | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 5<br>(5, 5)      | 301<br>(219, 413)                | 59.03<br>(43.06, 80.92)                |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 482 | 10<br>(10, 10)   | 2692372<br>(2329146, 3112243)    | 267928.32<br>(231855.79, 309613.08)    |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 482 | 10<br>(10, 10)   | 5171042<br>(4536102, 5894857)    | 514311.17<br>(451159.38, 586302.75)    |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 482 | 5<br>(5, 5)      | 4259<br>(3414, 5312)             | 837.43<br>(671.41, 1044.49)            |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 482 | 5<br>(5, 5)      | 5506<br>(4535, 6685)             | 1075.58<br>(887.15, 1304.01)           |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 128 | 10<br>(10, 10)   | 7520373<br>(6146909, 9200723)    | 752037.26<br>(614690.86, 920072.32)    |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 128 | 10<br>(10, 10)   | 13148461<br>(11661345, 14825221) | 1314846.07<br>(1166134.50, 1482522.12) |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 128 | 5<br>(5, 5)      | 21658<br>(15437, 30385)          | 4155.93<br>(2979.90, 5796.08)          |
| Age ≥ 65 | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 128 | 5<br>(5, 5)      | 19480<br>(13318, 28494)          | 3896.02<br>(2663.58, 5698.73)          |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 5)      | 5<br>(5, 5)                      | 1.02<br>(0.99, 1.05)                   |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)      | 5<br>(5, 5)                      | 1.01<br>(0.97, 1.05)                   |

(continued)

| Group    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|----------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 10<br>(10, 10)   | 1675605<br>(1276999, 2198632) | 166277.45<br>(126741.57, 218146.20) |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 10<br>(10, 10)   | 2790960<br>(2209589, 3525298) | 279096.04<br>(220958.92, 352529.78) |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 5<br>(5, 5)      | 2827<br>(1887, 4233)          | 549.05<br>(368.08, 818.99)          |
| Age ≥ 65 | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 5<br>(5, 5)      | 4185<br>(2859, 6127)          | 821.36<br>(562.39, 1199.58)         |

Table 6c. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Risk for Severe Covid-19

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC     | GMTR/GMCR                       |
|--------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|---------------------------|---------------------------------|
| Risk for Severe Covid-19 |                       |         |                     |                        |     |                  |                           |                                 |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 10<br>(10, 10)   | 26276<br>(22610, 30535)   | 2615.50<br>(2250.98, 3039.05)   |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 10<br>(10, 10)   | 45842<br>(40067, 52448)   | 4565.75<br>(3992.37, 5221.47)   |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 469 | 5<br>(5, 5)      | 103<br>(87, 122)          | 20.04<br>(16.98, 23.65)         |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 469 | 5<br>(5, 5)      | 215<br>(180, 258)         | 42.59<br>(35.64, 50.91)         |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)   | 55528<br>(43641, 70653)   | 5552.80<br>(4364.10, 7065.28)   |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)   | 103862<br>(82479, 130788) | 10386.18<br>(8247.90, 13078.81) |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)      | 220<br>(161, 302)         | 43.07<br>(31.58, 58.75)         |
| At-risk                  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)      | 443<br>(318, 617)         | 87.77<br>(62.95, 122.37)        |
| At-risk                  | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 10<br>(10, 10)   | 10<br>(10, 10)            | 1.00<br>(1.00, 1.00)            |
| At-risk                  | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 10<br>(10, 11)   | 10<br>(10, 10)            | 0.98<br>(0.94, 1.02)            |
| At-risk                  | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 84  | 5<br>(5, 5)      | 5<br>(5, 5)               | 1.02<br>(0.96, 1.08)            |
| At-risk                  | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 84  | 5<br>(5, 5)      | 5<br>(5, 5)               | 1.00<br>(0.98, 1.02)            |
| At-risk                  | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 10<br>(10, 10)   | 16713<br>(12642, 22096)   | 1661.32<br>(1257.58, 2194.67)   |
| At-risk                  | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 10<br>(10, 10)   | 26705<br>(21285, 33505)   | 2670.50<br>(2128.48, 3350.54)   |
| At-risk                  | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 5<br>(5, 5)      | 69<br>(52, 93)            | 13.57<br>(10.16, 18.12)         |

(continued)

| Group   | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| At-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 5<br>(5, 5)      | 180<br>(133, 243)             | 35.50<br>(26.16, 48.18)             |
| At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 469 | 10<br>(10, 10)   | 1142597<br>(961925, 1357205)  | 113734.61<br>(95775.71, 135060.99)  |
| At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 469 | 10<br>(10, 10)   | 2144439<br>(1840509, 2498559) | 213582.55<br>(183324.98, 248834.09) |
| At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 469 | 5<br>(5, 5)      | 1796<br>(1424, 2264)          | 349.12<br>(277.06, 439.92)          |
| At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 469 | 5<br>(5, 5)      | 2766<br>(2265, 3377)          | 546.96<br>(448.44, 667.12)          |
| At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)   | 2930270<br>(2216035, 3874704) | 293027.00<br>(221603.54, 387470.44) |
| At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)   | 6396516<br>(5214355, 7846688) | 639651.59<br>(521435.48, 784668.81) |
| At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)      | 6128<br>(4355, 8625)          | 1197.37<br>(852.46, 1681.83)        |
| At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)      | 11182<br>(7684, 16271)        | 2214.72<br>(1523.03, 3220.55)       |
| At-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 84  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.01<br>(0.99, 1.04)                |
| At-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 84  | 10<br>(10, 11)   | 10<br>(10, 10)                | 0.98<br>(0.94, 1.02)                |
| At-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 84  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.99<br>(0.96, 1.03)                |
| At-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 84  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.02<br>(0.98, 1.07)                |
| At-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 123 | 10<br>(10, 10)   | 663561<br>(492320, 894363)    | 65958.42<br>(48940.12, 88894.61)    |
| At-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 123 | 10<br>(10, 10)   | 1012116<br>(794913, 1288669)  | 101211.63<br>(79491.29, 128866.87)  |

(continued)

| Group       | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|-------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 123 | 5<br>(5, 5)      | 931<br>(651, 1331)      | 182.03<br>(127.42, 260.06)    |
| At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 123 | 5<br>(5, 5)      | 2086<br>(1418, 3067)    | 412.34<br>(280.42, 606.33)    |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 10<br>(10, 10)   | 21736<br>(17965, 26298) | 2159.67<br>(1785.56, 2612.16) |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 10<br>(10, 10)   | 39200<br>(34023, 45165) | 3920.03<br>(3402.34, 4516.49) |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 445 | 5<br>(5, 5)      | 108<br>(87, 133)        | 21.41<br>(17.29, 26.50)       |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 445 | 5<br>(5, 5)      | 180<br>(145, 223)       | 35.39<br>(28.57, 43.84)       |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 10<br>(10, 10)   | 31130<br>(22510, 43050) | 3113.00<br>(2251.05, 4305.00) |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 10<br>(10, 10)   | 73051<br>(55946, 95386) | 7305.09<br>(5594.58, 9538.58) |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 149 | 5<br>(5, 5)      | 175<br>(124, 247)       | 34.46<br>(24.42, 48.63)       |
| Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 149 | 5<br>(5, 5)      | 412<br>(284, 597)       | 80.90<br>(55.76, 117.37)      |
| Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 11)   | 10<br>(10, 10)          | 0.97<br>(0.92, 1.03)          |
| Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.00<br>(1.00, 1.00)          |
| Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)      | 5<br>(5, 5)             | 0.99<br>(0.92, 1.06)          |
| Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 10<br>(10, 10)   | 11818<br>(8756, 15950)  | 1181.77<br>(875.58, 1595.05)  |

(continued)

| Group       | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 10<br>(10, 10)   | 16070<br>(12770, 20222)       | 1606.98<br>(1277.02, 2022.19)       |
| Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 5<br>(5, 5)      | 47<br>(34, 64)                | 9.06<br>(6.67, 12.30)               |
| Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 5<br>(5, 5)      | 116<br>(82, 164)              | 22.87<br>(16.28, 32.13)             |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 445 | 10<br>(10, 10)   | 904842<br>(732112, 1118324)   | 89906.29<br>(72750.39, 111107.87)   |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 445 | 10<br>(10, 10)   | 2066294<br>(1739231, 2454861) | 206629.43<br>(173923.14, 245486.15) |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 445 | 5<br>(5, 5)      | 1394<br>(1075, 1808)          | 277.07<br>(213.65, 359.32)          |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 445 | 5<br>(5, 5)      | 2041<br>(1549, 2690)          | 402.41<br>(305.66, 529.78)          |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 149 | 10<br>(10, 10)   | 2113273<br>(1525010, 2928453) | 211327.27<br>(152501.04, 292845.31) |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 149 | 10<br>(10, 10)   | 5023873<br>(3827375, 6594416) | 502387.34<br>(382737.50, 659441.62) |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 149 | 5<br>(5, 5)      | 5532<br>(3337, 9171)          | 1087.15<br>(659.48, 1792.15)        |
| Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 149 | 5<br>(5, 5)      | 6928<br>(4429, 10838)         | 1360.94<br>(870.25, 2128.30)        |
| Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 11)   | 10<br>(10, 10)                | 0.97<br>(0.92, 1.03)                |
| Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.01<br>(1.00, 1.02)                |
| Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.97<br>(0.92, 1.03)                |

(continued)

| Group       | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|-------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 147 | 10<br>(10, 10)   | 320294<br>(235413, 435781) | 32029.42<br>(23541.29, 43578.07) |
| Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 147 | 10<br>(10, 10)   | 594413<br>(435730, 810886) | 59441.32<br>(43572.97, 81088.58) |
| Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 147 | 5<br>(5, 5)      | 482<br>(318, 728)          | 93.28<br>(62.10, 140.13)         |
| Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 147 | 5<br>(5, 5)      | 1143<br>(737, 1774)        | 225.36<br>(145.81, 348.33)       |

Table 6d. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age, Risk for Severe Covid-19

| Group                         | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|-------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| Age, Risk for Severe Covid-19 |                       |         |                     |                        |     |                  |                         |                               |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 10<br>(10, 10)   | 16530<br>(13368, 20441) | 1647.12<br>(1332.23, 2036.44) |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 10<br>(10, 10)   | 31028<br>(25725, 37423) | 3102.75<br>(2572.47, 3742.34) |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 214 | 5<br>(5, 5)      | 68<br>(54, 85)          | 13.04<br>(10.42, 16.32)       |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 214 | 5<br>(5, 5)      | 159<br>(123, 204)       | 31.54<br>(24.49, 40.62)       |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)   | 30603<br>(22501, 41623) | 3060.34<br>(2250.14, 4162.27) |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)   | 62641<br>(46271, 84801) | 6264.08<br>(4627.13, 8480.14) |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)      | 142<br>(95, 213)        | 28.47<br>(19.00, 42.66)       |
| Age < 65 At-risk              | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)      | 291<br>(187, 453)       | 57.32<br>(36.68, 89.56)       |
| Age < 65 At-risk              | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Age < 65 At-risk              | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 11)   | 10<br>(10, 10)          | 0.97<br>(0.91, 1.03)          |
| Age < 65 At-risk              | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)      | 5<br>(5, 6)             | 1.01<br>(0.92, 1.11)          |

(continued)

| Group            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65 At-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.99<br>(0.96, 1.01)                |
| Age < 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 10<br>(10, 10)   | 10221<br>(7219, 14470)        | 1022.09<br>(721.94, 1447.04)        |
| Age < 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 10<br>(10, 10)   | 16112<br>(12299, 21107)       | 1611.16<br>(1229.86, 2110.68)       |
| Age < 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 5<br>(5, 5)      | 48<br>(34, 67)                | 9.40<br>(6.70, 13.17)               |
| Age < 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 5<br>(5, 5)      | 127<br>(87, 186)              | 25.12<br>(17.07, 36.96)             |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 214 | 10<br>(10, 10)   | 761200<br>(595277, 973370)    | 75848.48<br>(59325.91, 96972.66)    |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 214 | 10<br>(10, 10)   | 1498825<br>(1211392, 1854460) | 149882.51<br>(121139.16, 185445.96) |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 214 | 5<br>(5, 5)      | 1203<br>(876, 1652)           | 231.86<br>(169.01, 318.08)          |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 214 | 5<br>(5, 5)      | 2067<br>(1571, 2720)          | 411.15<br>(312.79, 540.45)          |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)   | 1815884<br>(1228679, 2683724) | 181588.39<br>(122867.87, 268372.40) |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)   | 4547755<br>(3405518, 6073108) | 454775.50<br>(340551.75, 607310.79) |
| Age < 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)      | 2953<br>(1859, 4690)          | 590.64<br>(371.88, 938.10)          |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65 At-risk     | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)      | 7954<br>(4852, 13039)      | 1567.92<br>(957.49, 2567.49)     |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 10)   | 10<br>(10, 11)             | 1.02<br>(0.98, 1.07)             |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 11)   | 10<br>(10, 10)             | 0.97<br>(0.91, 1.03)             |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)      | 5<br>(5, 5)                | 0.99<br>(0.93, 1.05)             |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.01<br>(0.96, 1.07)             |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 10<br>(10, 10)   | 417627<br>(286526, 608715) | 41762.73<br>(28652.58, 60871.51) |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 10<br>(10, 10)   | 575539<br>(423609, 781958) | 57553.86<br>(42360.90, 78195.85) |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 5<br>(5, 5)      | 502<br>(325, 776)          | 98.87<br>(64.02, 152.71)         |
| Age < 65 At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 5<br>(5, 5)      | 1382<br>(851, 2245)        | 273.33<br>(168.28, 443.96)       |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 10<br>(10, 10)   | 17639<br>(14174, 21953)    | 1751.83<br>(1408.13, 2179.42)    |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 10<br>(10, 10)   | 31500<br>(26782, 37050)    | 3150.02<br>(2678.20, 3704.97)    |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 218 | 5<br>(5, 5)      | 90<br>(70, 115)            | 17.91<br>(14.03, 22.88)          |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 218 | 5<br>(5, 5)      | 157<br>(122, 200)       | 30.94<br>(24.21, 39.54)       |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)   | 23567<br>(16129, 34434) | 2356.67<br>(1612.92, 3443.37) |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)   | 58534<br>(42846, 79967) | 5853.44<br>(4284.64, 7996.66) |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)      | 144<br>(97, 214)        | 28.30<br>(18.99, 42.19)       |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)      | 353<br>(229, 545)       | 69.15<br>(44.78, 106.78)      |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 11)   | 10<br>(10, 10)          | 0.97<br>(0.91, 1.03)          |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.00<br>(1.00, 1.00)          |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 6)      | 5<br>(5, 5)             | 0.99<br>(0.91, 1.08)          |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 10<br>(10, 10)   | 9616<br>(6788, 13622)   | 961.58<br>(678.78, 1362.18)   |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 10<br>(10, 10)   | 12751<br>(9770, 16642)  | 1275.09<br>(976.97, 1664.19)  |
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 5<br>(5, 5)      | 38<br>(26, 55)          | 7.31<br>(5.13, 10.41)         |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 5<br>(5, 5)      | 101<br>(68, 150)              | 19.90<br>(13.43, 29.49)             |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 218 | 10<br>(10, 10)   | 730590<br>(572430, 932450)    | 72557.28<br>(56856.08, 92594.47)    |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 218 | 10<br>(10, 10)   | 1685764<br>(1382036, 2056240) | 168576.35<br>(138203.64, 205624.01) |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 218 | 5<br>(5, 5)      | 1118<br>(830, 1506)           | 222.65<br>(165.28, 299.92)          |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 218 | 5<br>(5, 5)      | 1671<br>(1216, 2295)          | 330.08<br>(240.60, 452.85)          |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)   | 1679359<br>(1144789, 2463552) | 167935.92<br>(114478.90, 246355.20) |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)   | 4192147<br>(3040678, 5779665) | 419214.74<br>(304067.80, 577966.50) |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)      | 4435<br>(2453, 8017)          | 871.87<br>(485.49, 1565.77)         |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)      | 5833<br>(3464, 9821)          | 1141.93<br>(678.45, 1922.04)        |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 40  | 10<br>(10, 11)   | 10<br>(10, 10)                | 0.97<br>(0.91, 1.03)                |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 40  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 40  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 40  | 5<br>(5, 6)      | 5<br>(5, 5)                | 0.97<br>(0.90, 1.03)             |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 10<br>(10, 10)   | 241209<br>(168681, 344922) | 24120.91<br>(16868.12, 34492.19) |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 10<br>(10, 10)   | 463469<br>(322830, 665378) | 46346.93<br>(32282.95, 66537.83) |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 5<br>(5, 5)      | 362<br>(224, 583)          | 69.97<br>(43.74, 111.92)         |
| Age < 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 5<br>(5, 5)      | 930<br>(559, 1549)         | 183.66<br>(110.80, 304.42)       |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 10<br>(10, 10)   | 54232<br>(44615, 65922)    | 5389.56<br>(4435.12, 6549.39)    |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 10<br>(10, 10)   | 84391<br>(70325, 101269)   | 8352.45<br>(6975.06, 10001.82)   |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 255 | 5<br>(5, 5)      | 199<br>(157, 252)          | 39.22<br>(30.90, 49.78)          |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 255 | 5<br>(5, 5)      | 348<br>(276, 438)          | 68.12<br>(54.16, 85.68)          |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)   | 188670<br>(129392, 275106) | 18867.03<br>(12939.21, 27510.55) |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)   | 293282<br>(210942, 407763) | 29328.19<br>(21094.20, 40776.26) |
| Age ≥ 65 At-risk     | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 6)      | 541<br>(337, 870)          | 100.78<br>(63.88, 159.01)        |

(continued)

| Group            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)      | 1052<br>(680, 1627)           | 210.47<br>(136.09, 325.50)          |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 44  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.03<br>(0.99, 1.08)                |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 44  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.02<br>(0.98, 1.06)                |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 11)   | 48060<br>(30237, 76388)       | 4715.92<br>(2980.60, 7461.57)       |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)   | 79058<br>(52125, 119908)      | 7905.78<br>(5212.45, 11990.78)      |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)      | 155<br>(89, 270)              | 29.89<br>(17.24, 51.82)             |
| Age ≥ 65 At-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)      | 378<br>(233, 613)             | 74.62<br>(45.91, 121.29)            |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 255 | 10<br>(10, 10)   | 2156196<br>(1736284, 2677662) | 214282.06<br>(172705.04, 265868.34) |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 255 | 10<br>(10, 10)   | 3754377<br>(3053564, 4616033) | 371583.87<br>(302329.22, 456702.71) |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 255 | 5<br>(5, 5)      | 3359<br>(2423, 4656)          | 662.04<br>(477.45, 917.99)          |

(continued)

| Group            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC            | GMTR/GMCR                              |
|------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------------|--|
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 255 | 5<br>(5, 5)      | 4361<br>(3299, 5763)             | 854.58<br>(648.16, 1126.74)            |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)   | 7826271<br>(5853680, 10463591)   | 782627.11<br>(585368.05, 1046359.11)   |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)   | 12884976<br>(10641883, 15600868) | 1288497.62<br>(1064188.30, 1560086.81) |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 6)      | 27431<br>(17819, 42227)          | 5108.47<br>(3366.93, 7750.83)          |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)      | 22502<br>(13237, 38254)          | 4500.48<br>(2647.36, 7650.76)          |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 44  | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 44  | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 44  | 5<br>(5, 5)      | 5<br>(5, 5)                      | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 44  | 5<br>(5, 5)      | 5<br>(5, 6)                      | 1.04<br>(0.97, 1.11)                   |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 11)   | 1793880<br>(1112795, 2891824)    | 176025.95<br>(109237.32, 283649.72)    |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)   | 3402410<br>(2325361, 4978321)    | 340240.98<br>(232536.09, 497832.07)    |
| Age ≥ 65 At-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)      | 3501<br>(1863, 6577)             | 675.29<br>(361.89, 1260.11)            |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age ≥ 65 At-risk     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)      | 5048<br>(2709, 9408)       | 997.20<br>(534.99, 1858.76)      |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 10<br>(10, 10)   | 80069<br>(65707, 97571)    | 7979.90<br>(6548.33, 9724.45)    |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 10<br>(10, 10)   | 153593<br>(130667, 180543) | 15359.34<br>(13066.69, 18054.25) |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 227 | 5<br>(5, 5)      | 332<br>(263, 418)          | 65.09<br>(51.60, 82.12)          |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 227 | 5<br>(5, 5)      | 421<br>(328, 540)          | 81.90<br>(63.99, 104.83)         |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76  | 10<br>(10, 10)   | 139826<br>(99996, 195520)  | 13982.56<br>(9999.60, 19552.00)  |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)   | 241494<br>(182978, 318724) | 24149.39<br>(18297.76, 31872.38) |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)      | 508<br>(317, 815)          | 99.68<br>(62.60, 158.74)         |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)      | 944<br>(626, 1422)         | 188.75<br>(125.29, 284.35)       |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.00<br>(1.00, 1.00)             |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC            | GMTR/GMCR                              |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------------|--|
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39  | 5<br>(5, 5)      | 5<br>(5, 5)                      | 0.99<br>(0.96, 1.01)                   |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75  | 10<br>(10, 10)   | 38048<br>(27669, 52321)          | 3804.83<br>(2766.90, 5232.12)          |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75  | 10<br>(10, 10)   | 59664<br>(45819, 77691)          | 5966.37<br>(4581.94, 7769.08)          |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75  | 5<br>(5, 5)      | 156<br>(105, 232)                | 30.49<br>(20.53, 45.27)                |
| Age ≥ 65 Not at-risk | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75  | 5<br>(5, 5)      | 257<br>(170, 390)                | 50.29<br>(33.38, 75.76)                |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 227 | 10<br>(10, 10)   | 3441017<br>(2860842, 4138850)    | 342939.68<br>(285103.95, 412507.88)    |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 227 | 10<br>(10, 10)   | 7365218<br>(6408010, 8465410)    | 736521.80<br>(640801.04, 846541.01)    |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 227 | 5<br>(5, 5)      | 5534<br>(4137, 7404)             | 1085.68<br>(812.27, 1451.14)           |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 227 | 5<br>(5, 5)      | 7125<br>(5468, 9285)             | 1386.74<br>(1065.57, 1804.72)          |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 76  | 10<br>(10, 10)   | 7305563<br>(5522547, 9664247)    | 730556.35<br>(552254.70, 966424.70)    |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)   | 13343347<br>(11421210, 15588971) | 1334334.72<br>(1142121.04, 1558897.08) |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)      | 18240<br>(11134, 29880)          | 3577.07<br>(2192.53, 5835.90)          |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|----------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 76 | 5<br>(5, 5)      | 17541<br>(10280, 29932)       | 3508.28<br>(2056.01, 5986.35)       |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39 | 5<br>(5, 5)      | 5<br>(5, 6)                   | 1.05<br>(0.98, 1.11)                |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.99<br>(0.96, 1.01)                |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 75 | 10<br>(10, 10)   | 1599200<br>(1156266, 2211811) | 159920.02<br>(115626.58, 221181.10) |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 75 | 10<br>(10, 10)   | 2437171<br>(1815977, 3270859) | 243717.12<br>(181597.68, 327085.88) |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 75 | 5<br>(5, 5)      | 2442<br>(1442, 4134)          | 476.56<br>(282.81, 803.04)          |
| Age ≥ 65 Not at-risk | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 75 | 5<br>(5, 5)      | 3681<br>(2278, 5949)          | 719.25<br>(447.61, 1155.75)         |

Table 6e. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Sex

| Group      | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|------------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------|--------------------------------|
| <b>Sex</b> |                       |         |                     |                        |     |                  |                          |                                |
| Male       | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 10<br>(10, 10)   | 25738<br>(20110, 32941)  | 2547.65<br>(1992.51, 3257.47)  |
| Male       | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 10<br>(10, 10)   | 40290<br>(34397, 47193)  | 4021.73<br>(3433.73, 4710.40)  |
| Male       | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 395 | 5<br>(5, 5)      | 121<br>(93, 157)         | 23.94<br>(18.44, 31.08)        |
| Male       | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 395 | 5<br>(5, 5)      | 207<br>(158, 272)        | 41.19<br>(31.36, 54.12)        |
| Male       | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)   | 43301<br>(30763, 60949)  | 4330.07<br>(3076.26, 6094.90)  |
| Male       | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)   | 83762<br>(65541, 107048) | 8376.20<br>(6554.14, 10704.79) |
| Male       | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)      | 223<br>(158, 315)        | 44.26<br>(31.35, 62.49)        |
| Male       | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)      | 449<br>(303, 666)        | 88.19<br>(59.60, 130.49)       |
| Male       | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 11<br>(9, 12)    | 10<br>(10, 10)           | 0.95<br>(0.85, 1.05)           |
| Male       | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Male       | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.02<br>(0.98, 1.07)           |
| Male       | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.00<br>(0.99, 1.00)           |
| Male       | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 10<br>(10, 10)   | 12838<br>(8743, 18852)   | 1283.80<br>(874.26, 1885.18)   |
| Male       | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 10<br>(10, 10)   | 16359<br>(12044, 22219)  | 1635.88<br>(1204.42, 2221.91)  |
| Male       | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 115 | 5<br>(5, 5)      | 43<br>(29, 63)           | 8.45<br>(5.76, 12.39)          |

(continued)

| Group | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Male  | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 115 | 5<br>(5, 5)      | 100<br>(68, 146)              | 19.80<br>(13.54, 28.93)             |
| Male  | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 395 | 10<br>(10, 10)   | 1032572<br>(803692, 1326633)  | 102207.86<br>(79582.66, 131265.36)  |
| Male  | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 395 | 10<br>(10, 10)   | 2448348<br>(1992531, 3008439) | 244392.84<br>(198889.12, 300307.33) |
| Male  | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 395 | 5<br>(5, 5)      | 1983<br>(1427, 2754)          | 392.99<br>(282.86, 546.00)          |
| Male  | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 395 | 5<br>(5, 5)      | 2322<br>(1694, 3181)          | 461.27<br>(336.67, 631.96)          |
| Male  | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)   | 2628794<br>(1842173, 3751308) | 262879.40<br>(184217.30, 375130.79) |
| Male  | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)   | 5518909<br>(4222583, 7213204) | 551890.89<br>(422258.33, 721320.40) |
| Male  | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)      | 5567<br>(3235, 9581)          | 1105.10<br>(642.29, 1901.37)        |
| Male  | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)      | 9590<br>(6259, 14696)         | 1881.91<br>(1235.71, 2866.05)       |
| Male  | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 76  | 11<br>(9, 12)    | 10<br>(10, 10)                | 0.96<br>(0.86, 1.07)                |
| Male  | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 76  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Male  | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 76  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.01<br>(0.99, 1.02)                |
| Male  | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 76  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(0.99, 1.00)                |
| Male  | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 115 | 10<br>(10, 10)   | 361345<br>(243436, 536364)    | 36134.52<br>(24343.59, 53636.45)    |
| Male  | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 115 | 10<br>(10, 10)   | 578439<br>(406742, 822616)    | 57843.93<br>(40674.16, 82261.55)    |

(continued)

| Group  | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|--------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------|--------------------------------|
| Male   | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 115 | 5<br>(5, 5)      | 606<br>(358, 1023)       | 120.00<br>(71.07, 202.60)      |
| Male   | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 115 | 5<br>(5, 5)      | 930<br>(554, 1559)       | 184.20<br>(109.85, 308.87)     |
| Female | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 10<br>(10, 10)   | 21234<br>(17837, 25278)  | 2116.93<br>(1778.05, 2520.39)  |
| Female | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 10<br>(10, 10)   | 41415<br>(35725, 48012)  | 4138.70<br>(3570.16, 4797.78)  |
| Female | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 519 | 5<br>(5, 5)      | 98<br>(80, 120)          | 19.27<br>(15.73, 23.62)        |
| Female | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 519 | 5<br>(5, 5)      | 178<br>(145, 218)        | 34.90<br>(28.55, 42.66)        |
| Female | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 10<br>(10, 10)   | 32117<br>(22658, 45526)  | 3211.74<br>(2265.79, 4552.63)  |
| Female | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 10<br>(10, 10)   | 77611<br>(57216, 105276) | 7761.12<br>(5721.63, 10527.59) |
| Female | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 153 | 5<br>(5, 5)      | 165<br>(113, 242)        | 32.19<br>(21.92, 47.27)        |
| Female | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 153 | 5<br>(5, 5)      | 401<br>(268, 602)        | 79.18<br>(52.69, 118.97)       |
| Female | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Female | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 10<br>(10, 10)   | 10<br>(10, 10)           | 0.99<br>(0.97, 1.01)           |
| Female | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 87  | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.00<br>(0.98, 1.01)           |
| Female | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 87  | 5<br>(5, 6)      | 5<br>(5, 5)              | 0.99<br>(0.92, 1.07)           |
| Female | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 10<br>(10, 10)   | 12876<br>(9489, 17472)   | 1284.49<br>(946.73, 1742.74)   |

(continued)

| Group  | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|--------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Female | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 10<br>(10, 10)   | 19468<br>(15496, 24459)       | 1946.81<br>(1549.59, 2445.85)       |
| Female | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 155 | 5<br>(5, 5)      | 58<br>(42, 81)                | 11.13<br>(8.13, 15.24)              |
| Female | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 155 | 5<br>(5, 5)      | 152<br>(105, 219)             | 29.90<br>(20.91, 42.76)             |
| Female | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 519 | 10<br>(10, 10)   | 924524<br>(750510, 1138886)   | 92171.55<br>(74822.64, 113543.10)   |
| Female | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 519 | 10<br>(10, 10)   | 1878895<br>(1586011, 2225864) | 187761.05<br>(158494.70, 222431.47) |
| Female | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 519 | 5<br>(5, 5)      | 1243<br>(972, 1588)           | 244.86<br>(191.72, 312.74)          |
| Female | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 519 | 5<br>(5, 5)      | 2160<br>(1643, 2840)          | 424.30<br>(323.30, 556.85)          |
| Female | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 153 | 10<br>(10, 10)   | 2106655<br>(1490680, 2977161) | 210665.51<br>(149068.03, 297716.12) |
| Female | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 153 | 10<br>(10, 10)   | 5236885<br>(3880756, 7066912) | 523688.47<br>(388075.59, 706691.20) |
| Female | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 153 | 5<br>(5, 5)      | 5754<br>(3356, 9868)          | 1120.71<br>(659.00, 1905.91)        |
| Female | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 153 | 5<br>(5, 5)      | 6872<br>(4174, 11314)         | 1355.55<br>(821.91, 2235.68)        |
| Female | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 87  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Female | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 87  | 10<br>(10, 10)   | 10<br>(10, 10)                | 0.99<br>(0.97, 1.01)                |
| Female | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 87  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(0.98, 1.02)                |
| Female | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 87  | 5<br>(5, 6)      | 5<br>(5, 5)                   | 0.98<br>(0.92, 1.04)                |

(continued)

| Group  | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC       | GMTR/GMCR                         |
|--------|-----------------------|---------|---------------------|------------------------|-----|------------------|-----------------------------|-----------------------------------|
| Female | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 155 | 10<br>(10, 10)   | 396863<br>(289955, 543189)  | 39591.01<br>(28926.67, 54186.94)  |
| Female | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 155 | 10<br>(10, 10)   | 748414<br>(540245, 1036794) | 74841.37<br>(54024.52, 103679.41) |
| Female | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 155 | 5<br>(5, 5)      | 541<br>(355, 825)           | 103.77<br>(68.77, 156.56)         |
| Female | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 155 | 5<br>(5, 5)      | 1659<br>(1064, 2588)        | 326.50<br>(210.44, 506.55)        |

Table 6f. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age, sex

| Group           | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|-----------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| Age, sex        |                       |         |                     |                        |     |                  |                         |                               |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 10<br>(10, 10)   | 16543<br>(13418, 20396) | 1649.23<br>(1337.49, 2033.63) |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 10<br>(10, 10)   | 32705<br>(27399, 39039) | 3270.52<br>(2739.91, 3903.89) |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 269 | 5<br>(5, 5)      | 79<br>(62, 101)         | 15.62<br>(12.24, 19.92)       |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 269 | 5<br>(5, 5)      | 150<br>(118, 191)       | 29.60<br>(23.28, 37.64)       |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 10)   | 21789<br>(14248, 33321) | 2178.91<br>(1424.83, 3332.11) |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)   | 56962<br>(39317, 82526) | 5696.22<br>(3931.72, 8252.62) |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)      | 124<br>(78, 197)        | 24.32<br>(15.30, 38.67)       |
| Age < 65 Female | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)      | 319<br>(195, 522)       | 62.74<br>(38.25, 102.90)      |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)   | 10<br>(10, 10)          | 0.99<br>(0.97, 1.01)          |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)      | 5<br>(5, 5)             | 0.99<br>(0.97, 1.01)          |

(continued)

| Group           | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-----------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 6)      | 5<br>(5, 5)                   | 0.99<br>(0.90, 1.08)                |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)   | 10100<br>(6984, 14608)        | 1010.05<br>(698.40, 1460.75)        |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)   | 14961<br>(11369, 19689)       | 1496.11<br>(1136.86, 1968.90)       |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 6)      | 46<br>(31, 69)                | 8.74<br>(6.00, 12.74)               |
| Age < 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)      | 133<br>(86, 207)              | 26.17<br>(16.99, 40.31)             |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 269 | 10<br>(10, 10)   | 725439<br>(563976, 933126)    | 72323.27<br>(56225.78, 93029.48)    |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 269 | 10<br>(10, 10)   | 1494002<br>(1218429, 1831901) | 149400.21<br>(121842.92, 183190.15) |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 269 | 5<br>(5, 5)      | 946<br>(706, 1267)            | 186.45<br>(139.19, 249.76)          |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 269 | 5<br>(5, 5)      | 1691<br>(1216, 2352)          | 332.97<br>(239.88, 462.17)          |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 79  | 10<br>(10, 10)   | 1557246<br>(1019727, 2378101) | 155724.56<br>(101972.70, 237810.10) |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 79  | 10<br>(10, 10)   | 4234642<br>(2930914, 6118296) | 423464.24<br>(293091.36, 611829.57) |
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 79  | 5<br>(5, 5)      | 4195<br>(2173, 8100)          | 820.85<br>(429.44, 1568.99)         |

(continued)

| Group           | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|-----------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 79  | 5<br>(5, 5)      | 5422<br>(2964, 9918)       | 1066.04<br>(581.49, 1954.38)     |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)   | 10<br>(10, 10)             | 0.99<br>(0.97, 1.01)             |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.00<br>(0.97, 1.02)             |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 6)      | 5<br>(5, 5)                | 0.97<br>(0.90, 1.04)             |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 83  | 10<br>(10, 10)   | 293632<br>(201048, 428852) | 29363.18<br>(20104.77, 42885.16) |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 83  | 10<br>(10, 10)   | 571578<br>(384900, 848795) | 57157.76<br>(38489.96, 84879.54) |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 83  | 5<br>(5, 6)      | 387<br>(233, 641)          | 73.68<br>(45.02, 120.60)         |
| Age < 65 Female | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 83  | 5<br>(5, 5)      | 1375<br>(804, 2349)        | 270.38<br>(159.26, 459.03)       |
| Age < 65 Male   | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 10)   | 18877<br>(13705, 26001)    | 1866.53<br>(1356.91, 2567.57)    |
| Age < 65 Male   | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)   | 29372<br>(24030, 35901)    | 2937.19<br>(2402.98, 3590.15)    |
| Age < 65 Male   | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)      | 94<br>(67, 132)            | 18.70<br>(13.35, 26.21)          |
| Age < 65 Male   | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)      | 169<br>(118, 240)          | 33.64<br>(23.62, 47.90)          |

(continued)

| Group         | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)   | 30884<br>(20281, 47031)       | 3088.44<br>(2028.11, 4703.13)       |
| Age < 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)   | 63477<br>(47023, 85688)       | 6347.70<br>(4702.33, 8568.81)       |
| Age < 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)      | 180<br>(119, 274)             | 36.09<br>(23.79, 54.76)             |
| Age < 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)      | 372<br>(229, 604)             | 72.62<br>(44.83, 117.63)            |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 11<br>(9, 13)    | 10<br>(10, 10)                | 0.92<br>(0.78, 1.08)                |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 28  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.03<br>(0.97, 1.10)                |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 28  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 10<br>(10, 10)   | 9188<br>(5784, 14598)         | 918.85<br>(578.36, 1459.77)         |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 10<br>(10, 10)   | 11210<br>(7775, 16161)        | 1120.96<br>(777.52, 1616.12)        |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 64  | 5<br>(5, 5)      | 31<br>(20, 50)                | 6.29<br>(3.99, 9.92)                |
| Age < 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 64  | 5<br>(5, 5)      | 73<br>(47, 115)               | 14.60<br>(9.30, 22.92)              |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 163 | 10<br>(10, 10)   | 756600<br>(546757, 1046981)   | 74811.32<br>(54086.35, 103477.74)   |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 163 | 10<br>(10, 10)   | 1920202<br>(1472176, 2504576) | 192020.23<br>(147217.61, 250457.60) |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 163 | 5<br>(5, 5)      | 1532<br>(1004, 2337)          | 304.47<br>(199.53, 464.60)          |

(continued)

| Group         | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 163 | 5<br>(5, 5)      | 1850<br>(1231, 2781)          | 368.88<br>(245.44, 554.40)          |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)   | 1977267<br>(1268954, 3080952) | 197726.73<br>(126895.40, 308095.19) |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)   | 4318054<br>(3077671, 6058343) | 431805.36<br>(307767.09, 605834.32) |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)      | 3857<br>(1960, 7590)          | 771.41<br>(392.00, 1518.05)         |
| Age < 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 5)      | 7789<br>(4625, 13117)         | 1520.50<br>(910.33, 2539.66)        |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 28  | 11<br>(9, 13)    | 10<br>(10, 11)                | 0.94<br>(0.79, 1.11)                |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 28  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 28  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 28  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 64  | 10<br>(10, 10)   | 236528<br>(146661, 381460)    | 23652.81<br>(14666.14, 38146.03)    |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 64  | 10<br>(10, 10)   | 373064<br>(243212, 572245)    | 37306.38<br>(24321.16, 57224.48)    |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 64  | 5<br>(5, 5)      | 387<br>(206, 728)             | 77.48<br>(41.21, 145.66)            |
| Age < 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 64  | 5<br>(5, 5)      | 618<br>(331, 1154)            | 122.95<br>(65.86, 229.52)           |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 10<br>(10, 10)   | 66467<br>(53933, 81913)       | 6600.68<br>(5356.98, 8133.11)       |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 10<br>(10, 10)   | 105989<br>(87935, 127749)     | 10521.42<br>(8738.17, 12668.58)     |

(continued)

| Group         | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 232 | 5<br>(5, 5)      | 259<br>(203, 330)             | 50.93<br>(39.90, 65.01)             |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 232 | 5<br>(5, 5)      | 390<br>(306, 496)             | 76.59<br>(60.31, 97.27)             |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 10<br>(10, 10)   | 148457<br>(98119, 224620)     | 14845.72<br>(9811.94, 22461.95)     |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 10<br>(10, 10)   | 230231<br>(167261, 316907)    | 23023.06<br>(16726.06, 31690.75)    |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 54  | 5<br>(5, 6)      | 482<br>(286, 812)             | 93.10<br>(56.09, 154.53)            |
| Age ≥ 65 Male | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 54  | 5<br>(5, 5)      | 895<br>(560, 1432)            | 179.10<br>(111.99, 286.42)          |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.01<br>(0.99, 1.04)                |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.99<br>(0.96, 1.01)                |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 10<br>(10, 10)   | 50082<br>(30542, 82125)       | 5008.22<br>(3054.16, 8212.50)       |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 10<br>(10, 10)   | 76189<br>(49115, 118188)      | 7618.89<br>(4911.45, 11818.80)      |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 51  | 5<br>(5, 6)      | 147<br>(82, 263)              | 28.06<br>(15.81, 49.79)             |
| Age ≥ 65 Male | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 51  | 5<br>(5, 5)      | 350<br>(196, 626)             | 68.37<br>(38.37, 121.82)            |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 232 | 10<br>(10, 10)   | 2674328<br>(2152728, 3322311) | 265580.56<br>(213995.04, 329601.25) |

(continued)

| Group         | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC            | GMTR/GMCR                              |
|---------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------------|--|
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 232 | 10<br>(10, 10)   | 5149990<br>(4231902, 6267253)    | 511235.06<br>(419941.28, 622375.80)    |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 232 | 5<br>(5, 5)      | 4362<br>(3133, 6074)             | 858.16<br>(615.90, 1195.72)            |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 232 | 5<br>(5, 5)      | 4649<br>(3501, 6173)             | 914.10<br>(689.08, 1212.60)            |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 54  | 10<br>(10, 10)   | 7426127<br>(5296972, 10411111)   | 742612.73<br>(529697.25, 1041111.05)   |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 54  | 10<br>(10, 10)   | 13502491<br>(11607977, 15706205) | 1350249.15<br>(1160797.74, 1570620.53) |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 54  | 5<br>(5, 6)      | 21221<br>(12633, 35647)          | 4098.51<br>(2451.98, 6850.70)          |
| Age ≥ 65 Male | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 54  | 5<br>(5, 5)      | 20477<br>(11619, 36087)          | 4095.32<br>(2323.81, 7217.31)          |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 48  | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 48  | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 48  | 5<br>(5, 5)      | 5<br>(5, 5)                      | 1.02<br>(0.98, 1.06)                   |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 48  | 5<br>(5, 5)      | 5<br>(5, 5)                      | 0.99<br>(0.96, 1.01)                   |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 51  | 10<br>(10, 10)   | 2027539<br>(1259961, 3262731)    | 202753.90<br>(125996.11, 326273.11)    |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 51  | 10<br>(10, 10)   | 3447429<br>(2322804, 5116559)    | 344742.86<br>(232280.42, 511655.88)    |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 51  | 5<br>(5, 6)      | 3730<br>(1880, 7401)             | 712.08<br>(364.28, 1391.96)            |
| Age ≥ 65 Male | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 51  | 5<br>(5, 5)      | 4892<br>(2560, 9348)             | 954.53<br>(501.47, 1816.94)            |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 10<br>(10, 10)   | 64209<br>(53151, 77567)    | 6401.45<br>(5299.06, 7733.16)    |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 10<br>(10, 10)   | 117943<br>(99447, 139878)  | 11750.53<br>(9917.62, 13922.19)  |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 250 | 5<br>(5, 5)      | 249<br>(197, 315)          | 48.99<br>(38.78, 61.89)          |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 250 | 5<br>(5, 5)      | 373<br>(294, 474)          | 72.42<br>(57.16, 91.75)          |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74  | 10<br>(10, 10)   | 166523<br>(121761, 227741) | 16652.29<br>(12176.06, 22774.10) |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74  | 10<br>(10, 10)   | 288235<br>(216852, 383115) | 28823.47<br>(21685.20, 38311.49) |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 74  | 5<br>(5, 6)      | 553<br>(354, 864)          | 105.66<br>(68.26, 163.53)        |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 74  | 5<br>(5, 5)      | 1062<br>(720, 1566)        | 212.40<br>(144.04, 313.21)       |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 35  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.02<br>(0.98, 1.07)             |
| Age ≥ 65<br>Female | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 35  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.02<br>(0.98, 1.07)             |

(continued)

| Group           | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC            | GMTR/GMCR                              |
|-----------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------------|--|
| Age ≥ 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72  | 10<br>(10, 10)   | 37051<br>(27449, 50013)          | 3657.70<br>(2719.73, 4919.14)          |
| Age ≥ 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72  | 10<br>(10, 10)   | 61265<br>(47638, 78789)          | 6126.46<br>(4763.78, 7878.92)          |
| Age ≥ 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72  | 5<br>(5, 5)      | 162<br>(110, 238)                | 31.81<br>(21.63, 46.78)                |
| Age ≥ 65 Female | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72  | 5<br>(5, 5)      | 271<br>(188, 392)                | 53.46<br>(37.23, 76.76)                |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 250 | 10<br>(10, 10)   | 2708471<br>(2228982, 3291105)    | 270027.12<br>(222227.95, 328107.44)    |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 250 | 10<br>(10, 10)   | 5189777<br>(4355492, 6183867)    | 517053.81<br>(434090.43, 615873.16)    |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 250 | 5<br>(5, 5)      | 4169<br>(3097, 5612)             | 819.46<br>(609.36, 1102.00)            |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 250 | 5<br>(5, 5)      | 6397<br>(4907, 8340)             | 1242.43<br>(955.63, 1615.30)           |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 74  | 10<br>(10, 10)   | 7590360<br>(5921961, 9728799)    | 759036.03<br>(592196.09, 972879.93)    |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 74  | 10<br>(10, 10)   | 12894340<br>(10799304, 15395807) | 1289433.98<br>(1079930.42, 1539580.67) |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 74  | 5<br>(5, 6)      | 21984<br>(13986, 34558)          | 4198.62<br>(2698.65, 6532.30)          |
| Age ≥ 65 Female | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 74  | 5<br>(5, 5)      | 18779<br>(11189, 31518)          | 3755.84<br>(2237.83, 6303.56)          |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|--------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 35 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 35 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 35 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.02<br>(0.98, 1.07)                |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 35 | 5<br>(5, 5)      | 5<br>(5, 6)                   | 1.04<br>(0.96, 1.13)                |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 72 | 10<br>(10, 10)   | 1473236<br>(1067157, 2033836) | 145438.84<br>(105433.61, 200623.47) |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 72 | 10<br>(10, 10)   | 2420004<br>(1820068, 3217693) | 242000.40<br>(182006.75, 321769.35) |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 72 | 5<br>(5, 5)      | 2344<br>(1427, 3849)          | 460.66<br>(280.22, 757.28)          |
| Age ≥ 65<br>Female | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 72 | 5<br>(5, 5)      | 3767<br>(2352, 6032)          | 742.12<br>(464.89, 1184.66)         |

Table 6g. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Hispanic or Latino ethnicity

| Group                               | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|-------------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------|--------------------------------|
| <b>Hispanic or Latino ethnicity</b> |                       |         |                     |                        |     |                  |                          |                                |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 10<br>(10, 10)   | 22266<br>(15847, 31284)  | 2226.58<br>(1584.75, 3128.36)  |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 10<br>(10, 10)   | 41773<br>(31562, 55289)  | 4177.34<br>(3156.18, 5528.90)  |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 136 | 5<br>(5, 5)      | 101<br>(67, 152)         | 20.07<br>(13.32, 30.26)        |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 136 | 5<br>(5, 6)      | 190<br>(126, 284)        | 35.82<br>(24.42, 52.53)        |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 10<br>(10, 10)   | 57339<br>(30559, 107588) | 5733.92<br>(3055.89, 10758.85) |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 10<br>(10, 10)   | 90332<br>(50343, 162084) | 9033.16<br>(5034.32, 16208.37) |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 35  | 5<br>(5, 5)      | 254<br>(155, 417)        | 50.85<br>(31.04, 83.31)        |
| Hispanic or Latino                  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 35  | 5<br>(5, 5)      | 498<br>(236, 1049)       | 97.19<br>(45.87, 205.93)       |
| Hispanic or Latino                  | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Hispanic or Latino                  | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Hispanic or Latino                  | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 20  | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.02<br>(0.98, 1.05)           |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC          | GMTR/GMCR                            |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------------|--------------------------------------|
| Hispanic or Latino | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 20  | 5<br>(5, 5)      | 6<br>(4, 8)                    | 1.21<br>(0.87, 1.67)                 |
| Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 10<br>(10, 10)   | 34815<br>(16110, 75239)        | 3481.54<br>(1611.02, 7523.86)        |
| Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 10<br>(10, 10)   | 26708<br>(12585, 56680)        | 2670.83<br>(1258.52, 5668.01)        |
| Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 38  | 6<br>(5, 7)      | 118<br>(42, 327)               | 21.01<br>(8.52, 51.83)               |
| Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 38  | 5<br>(5, 5)      | 351<br>(151, 818)              | 70.21<br>(30.13, 163.62)             |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 136 | 10<br>(10, 10)   | 1087406<br>(737091, 1604213)   | 108740.60<br>(73709.14, 160421.34)   |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 136 | 10<br>(10, 10)   | 2082654<br>(1564176, 2772993)  | 208265.41<br>(156417.59, 277299.26)  |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 136 | 5<br>(5, 5)      | 1727<br>(1013, 2946)           | 344.71<br>(202.11, 587.93)           |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 136 | 5<br>(5, 6)      | 2444<br>(1373, 4350)           | 461.92<br>(266.06, 801.97)           |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 35  | 10<br>(10, 10)   | 2735111<br>(1368395, 5466868)  | 273511.13<br>(136839.49, 546686.78)  |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 35  | 10<br>(10, 10)   | 7578287<br>(5040721, 11393296) | 757828.67<br>(504072.13, 1139329.58) |
| Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 35  | 5<br>(5, 5)      | 7727<br>(2908, 20532)          | 1545.45<br>(581.63, 4106.42)         |

(continued)

| Group                  | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC        | GMTR/GMCR                          |
|------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|------------------------------|------------------------------------|
| Hispanic or Latino     | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 35  | 5<br>(5, 5)      | 10208<br>(4492, 23195)       | 1991.90<br>(877.85, 4519.79)       |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 20  | 10<br>(10, 10)   | 10<br>(10, 10)               | 1.00<br>(1.00, 1.00)               |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 20  | 10<br>(10, 10)   | 10<br>(10, 10)               | 1.00<br>(1.00, 1.00)               |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 20  | 5<br>(5, 5)      | 5<br>(5, 5)                  | 1.00<br>(1.00, 1.00)               |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 20  | 5<br>(5, 5)      | 5<br>(5, 5)                  | 1.00<br>(1.00, 1.00)               |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 38  | 10<br>(10, 10)   | 747435<br>(391924, 1425424)  | 74743.46<br>(39192.45, 142542.38)  |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 38  | 10<br>(10, 10)   | 1403460<br>(609038, 3234119) | 140346.03<br>(60903.77, 323411.95) |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 38  | 6<br>(5, 7)      | 1522<br>(466, 4976)          | 271.27<br>(88.81, 828.62)          |
| Hispanic or Latino     | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 38  | 5<br>(5, 5)      | 3063<br>(1057, 8877)         | 612.54<br>(211.34, 1775.33)        |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 10<br>(10, 10)   | 23020<br>(19425, 27280)      | 2286.61<br>(1930.10, 2708.97)      |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 10<br>(10, 10)   | 39694<br>(35055, 44946)      | 3963.68<br>(3500.65, 4487.96)      |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 690 | 5<br>(5, 5)      | 104<br>(86, 125)             | 20.56<br>(17.07, 24.76)            |

(continued)

| Group                  | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------|--------------------------------|
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 690 | 5<br>(5, 5)      | 191<br>(158, 230)        | 37.96<br>(31.48, 45.77)        |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 10<br>(10, 10)   | 35344<br>(26390, 47337)  | 3534.42<br>(2639.00, 4733.66)  |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 10<br>(10, 10)   | 83383<br>(65546, 106075) | 8338.33<br>(6554.59, 10607.48) |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 217 | 5<br>(5, 5)      | 183<br>(133, 251)        | 36.13<br>(26.25, 49.73)        |
| Not Hispanic or Latino | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 217 | 5<br>(5, 5)      | 411<br>(294, 575)        | 80.81<br>(57.70, 113.17)       |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 10<br>(10, 10)   | 10<br>(10, 10)           | 0.99<br>(0.98, 1.01)           |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 130 | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.01<br>(0.98, 1.03)           |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 130 | 5<br>(5, 5)      | 5<br>(5, 5)              | 0.97<br>(0.93, 1.02)           |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 10<br>(10, 10)   | 11608<br>(9046, 14896)   | 1158.76<br>(903.07, 1486.86)   |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 10<br>(10, 10)   | 18056<br>(14910, 21865)  | 1805.57<br>(1490.99, 2186.53)  |
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 214 | 5<br>(5, 5)      | 48<br>(37, 63)           | 9.40<br>(7.28, 12.15)          |

(continued)

| Group                  | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Not Hispanic or Latino | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 214 | 5<br>(5, 5)      | 123<br>(92, 165)              | 24.28<br>(18.23, 32.35)             |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 690 | 10<br>(10, 10)   | 987977<br>(822264, 1187086)   | 98137.11<br>(81690.28, 117895.20)   |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 690 | 10<br>(10, 10)   | 2063432<br>(1775937, 2397468) | 206047.30<br>(177339.03, 239402.97) |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 690 | 5<br>(5, 5)      | 1500<br>(1191, 1888)          | 296.84<br>(235.74, 373.77)          |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 690 | 5<br>(5, 5)      | 2270<br>(1788, 2883)          | 451.12<br>(355.29, 572.80)          |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 217 | 10<br>(10, 10)   | 2315554<br>(1731123, 3097290) | 231555.38<br>(173112.28, 309728.99) |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 217 | 10<br>(10, 10)   | 5301268<br>(4150604, 6770929) | 530126.82<br>(415060.39, 677092.90) |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 217 | 5<br>(5, 5)      | 5224<br>(3348, 8151)          | 1034.14<br>(662.98, 1613.08)        |
| Not Hispanic or Latino | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 217 | 5<br>(5, 5)      | 7937<br>(5300, 11886)         | 1561.42<br>(1043.13, 2337.23)       |
| Not Hispanic or Latino | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 130 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.01<br>(1.00, 1.02)                |
| Not Hispanic or Latino | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 130 | 10<br>(10, 10)   | 10<br>(10, 10)                | 0.99<br>(0.98, 1.01)                |
| Not Hispanic or Latino | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 130 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(0.99, 1.02)                |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|--------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Not Hispanic or Latino   | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 130 | 5<br>(5, 5)      | 5<br>(5, 5)                | 0.98<br>(0.93, 1.03)             |
| Not Hispanic or Latino   | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 214 | 10<br>(10, 10)   | 381696<br>(293138, 497006) | 38101.89<br>(29262.14, 49612.02) |
| Not Hispanic or Latino   | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 214 | 10<br>(10, 10)   | 648311<br>(505732, 831086) | 64831.06<br>(50573.21, 83108.56) |
| Not Hispanic or Latino   | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 214 | 5<br>(5, 5)      | 555<br>(395, 782)          | 108.64<br>(77.40, 152.49)        |
| Not Hispanic or Latino   | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 214 | 5<br>(5, 5)      | 1324<br>(921, 1904)        | 261.10<br>(182.28, 374.00)       |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88  | 10<br>(10, 10)   | 22876<br>(15904, 32905)    | 2274.83<br>(1582.12, 3270.83)    |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88  | 10<br>(10, 10)   | 50488<br>(35885, 71034)    | 5048.79<br>(3588.47, 7103.37)    |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 88  | 5<br>(5, 5)      | 133<br>(84, 213)           | 25.71<br>(16.13, 40.96)          |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 88  | 5<br>(5, 5)      | 174<br>(106, 287)          | 34.02<br>(20.65, 56.04)          |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22  | 10<br>(10, 10)   | 25827<br>(18334, 36382)    | 2582.70<br>(1833.44, 3638.16)    |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22  | 10<br>(10, 10)   | 46903<br>(33825, 65038)    | 4690.32<br>(3382.48, 6503.83)    |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 22  | 6<br>(4, 7)      | 154<br>(91, 259)           | 27.15<br>(16.58, 44.47)          |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|--------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 22 | 5<br>(5, 5)      | 420<br>(198, 891)             | 83.98<br>(39.57, 178.24)            |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13 | 12<br>(8, 18)    | 10<br>(10, 10)                | 0.82<br>(0.56, 1.21)                |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 10<br>(10, 10)   | 10750<br>(3611, 32001)        | 1075.02<br>(361.13, 3200.07)        |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 10<br>(10, 10)   | 11909<br>(5649, 25107)        | 1190.89<br>(564.87, 2510.66)        |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 18 | 5<br>(5, 5)      | 37<br>(15, 93)                | 7.39<br>(2.93, 18.63)               |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 18 | 5<br>(5, 5)      | 58<br>(19, 177)               | 11.28<br>(3.70, 34.45)              |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 88 | 10<br>(10, 10)   | 735710<br>(462524, 1170251)   | 73159.15<br>(46013.55, 116319.24)   |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 88 | 10<br>(10, 10)   | 2279592<br>(1446853, 3591615) | 227959.19<br>(144685.30, 359161.52) |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 88 | 5<br>(5, 5)      | 1291<br>(765, 2178)           | 248.75<br>(147.56, 419.33)          |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|--------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 88 | 5<br>(5, 5)      | 1748<br>(990, 3088)           | 341.31<br>(194.13, 600.06)          |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 22 | 10<br>(10, 10)   | 1751283<br>(872333, 3515850)  | 175128.31<br>(87233.31, 351585.01)  |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 22 | 10<br>(10, 10)   | 3840709<br>(2197166, 6713669) | 384070.92<br>(219716.64, 671366.86) |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 22 | 6<br>(4, 7)      | 8669<br>(2979, 25223)         | 1531.30<br>(641.99, 3652.47)        |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 22 | 5<br>(5, 5)      | 5104<br>(2140, 12175)         | 1020.81<br>(427.96, 2434.92)        |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 13 | 12<br>(8, 18)    | 10<br>(10, 10)                | 0.82<br>(0.56, 1.21)                |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.03<br>(0.97, 1.08)                |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 18 | 10<br>(10, 10)   | 162620<br>(55659, 475135)     | 16262.02<br>(5565.86, 47513.49)     |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18 | 10<br>(10, 10)   | 417076<br>(107739, 1614570)   | 41707.62<br>(10773.92, 161457.03)   |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 18 | 5<br>(5, 5)      | 188<br>(46, 766)              | 37.59<br>(9.22, 153.25)             |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker               | N  | Baseline GMT/GMC | Post Baseline GMT/GMC | GMTR/GMCR                |
|--------------------------|-----------------------|---------|---------------------|----------------------|----|------------------|-----------------------|--------------------------|
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80 | 18 | 5<br>(5, 5)      | 437<br>(69, 2773)     | 85.21<br>(13.47, 538.99) |

Table 6h. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Race

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| Race               |                       |         |                     |                        |     |                  |                         |                               |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 10<br>(10, 10)   | 23438<br>(18669, 29425) | 2343.79<br>(1866.88, 2942.53) |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 10<br>(10, 10)   | 40376<br>(34349, 47460) | 4031.72<br>(3430.05, 4738.93) |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 5<br>(5, 5)      | 115<br>(90, 147)        | 22.83<br>(17.82, 29.23)       |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 5<br>(5, 5)      | 188<br>(146, 241)       | 37.41<br>(29.16, 48.00)       |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)   | 30985<br>(21434, 44793) | 3098.50<br>(2143.36, 4479.29) |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)   | 72481<br>(53061, 99008) | 7248.12<br>(5306.15, 9900.82) |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)      | 148<br>(104, 211)       | 29.21<br>(20.49, 41.65)       |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)      | 348<br>(226, 535)       | 69.53<br>(45.18, 106.99)      |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)   | 10<br>(10, 10)          | 0.99<br>(0.96, 1.01)          |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.01<br>(1.00, 1.02)          |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 6)      | 5<br>(5, 5)                   | 0.96<br>(0.89, 1.04)                |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)   | 10931<br>(7560, 15804)        | 1089.81<br>(753.88, 1575.44)        |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)   | 18868<br>(14808, 24043)       | 1886.83<br>(1480.76, 2404.27)       |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)      | 52<br>(37, 74)                | 10.37<br>(7.32, 14.70)              |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)      | 107<br>(76, 150)              | 21.32<br>(15.15, 29.99)             |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 10<br>(10, 10)   | 1035293<br>(809568, 1323956)  | 103529.30<br>(80956.76, 132395.58)  |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 10<br>(10, 10)   | 2145772<br>(1770774, 2600184) | 214266.04<br>(176817.71, 259645.59) |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 5<br>(5, 5)      | 1376<br>(1010, 1874)          | 273.04<br>(200.41, 371.99)          |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 5<br>(5, 5)      | 2011<br>(1465, 2761)          | 400.97<br>(292.11, 550.40)          |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)   | 1943813<br>(1349835, 2799166) | 194381.34<br>(134983.46, 279916.55) |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)   | 4608987<br>(3338577, 6362819) | 460898.73<br>(333857.72, 636281.94) |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)      | 4550<br>(2471, 8378)          | 899.93<br>(488.90, 1656.55)         |

(continued)

| Group                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|---------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| White Non-Hispanic        | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)      | 7994<br>(4646, 13757)      | 1598.88<br>(929.14, 2751.39)     |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.01<br>(0.99, 1.03)             |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)   | 10<br>(10, 10)             | 0.99<br>(0.96, 1.01)             |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.00<br>(1.00, 1.00)             |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 6)      | 5<br>(5, 5)                | 0.98<br>(0.90, 1.06)             |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)   | 393045<br>(287516, 537306) | 39187.22<br>(28666.35, 53569.39) |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)   | 674526<br>(485396, 937351) | 67452.65<br>(48539.56, 93735.08) |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)      | 575<br>(371, 892)          | 114.01<br>(73.52, 176.80)        |
| White Non-Hispanic        | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)      | 1478<br>(953, 2292)        | 295.55<br>(190.57, 458.35)       |
| Black or African American | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 10<br>(10, 11)   | 18966<br>(14305, 25146)    | 1843.84<br>(1399.25, 2429.70)    |
| Black or African American | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 10<br>(10, 10)   | 33478<br>(26923, 41629)    | 3347.79<br>(2692.25, 4162.95)    |

(continued)

| Group                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|---------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------|--------------------------------|
| Black or African American | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 195 | 5<br>(5, 5)      | 80<br>(57, 111)          | 15.88<br>(11.38, 22.16)        |
| Black or African American | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 195 | 5<br>(5, 5)      | 168<br>(116, 244)        | 33.41<br>(23.02, 48.50)        |
| Black or African American | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52  | 10<br>(10, 10)   | 49806<br>(32279, 76849)  | 4980.58<br>(3227.90, 7684.92)  |
| Black or African American | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52  | 10<br>(10, 10)   | 92510<br>(63827, 134083) | 9251.02<br>(6382.72, 13408.29) |
| Black or African American | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52  | 5<br>(5, 5)      | 240<br>(126, 455)        | 47.20<br>(24.97, 89.23)        |
| Black or African American | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52  | 5<br>(5, 5)      | 595<br>(282, 1255)       | 116.76<br>(55.14, 247.22)      |
| Black or African American | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Black or African American | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Black or African American | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39  | 5<br>(5, 5)      | 5<br>(5, 5)              | 0.97<br>(0.92, 1.03)           |

(continued)

| Group                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Black or African American | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Black or African American | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 10<br>(10, 10)   | 13142<br>(8909, 19387)        | 1314.25<br>(890.92, 1938.73)        |
| Black or African American | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 10<br>(10, 10)   | 17281<br>(11001, 27148)       | 1728.13<br>(1100.06, 2714.79)       |
| Black or African American | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60  | 5<br>(5, 6)      | 44<br>(24, 81)                | 8.34<br>(4.87, 14.28)               |
| Black or African American | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60  | 5<br>(5, 5)      | 170<br>(88, 328)              | 33.37<br>(17.33, 64.24)             |
| Black or African American | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 195 | 10<br>(10, 11)   | 700976<br>(482795, 1017755)   | 68147.28<br>(47075.98, 98650.13)    |
| Black or African American | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 195 | 10<br>(10, 10)   | 1698222<br>(1265203, 2279444) | 169822.23<br>(126520.28, 227944.40) |
| Black or African American | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 195 | 5<br>(5, 5)      | 1634<br>(1060, 2520)          | 325.53<br>(211.14, 501.88)          |
| Black or African American | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 195 | 5<br>(5, 5)      | 2461<br>(1568, 3861)          | 488.47<br>(311.61, 765.72)          |

(continued)

| Group                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Black or African American | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 52 | 10<br>(10, 10)   | 3863173<br>(2496394, 5978266) | 386317.31<br>(249639.38, 597826.60) |
| Black or African American | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 52 | 10<br>(10, 10)   | 5233980<br>(3292870, 8319352) | 523397.96<br>(329286.96, 831935.23) |
| Black or African American | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 52 | 5<br>(5, 5)      | 9353<br>(5430, 16111)         | 1839.68<br>(1070.22, 3162.36)       |
| Black or African American | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 52 | 5<br>(5, 5)      | 10207<br>(5426, 19200)        | 2004.31<br>(1066.53, 3766.66)       |
| Black or African American | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 39 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Black or African American | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 39 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Black or African American | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 39 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.99<br>(0.92, 1.06)                |
| Black or African American | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 39 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Black or African American | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60 | 10<br>(10, 10)   | 304404<br>(168043, 551417)    | 30440.40<br>(16804.30, 55141.74)    |

(continued)

| Group                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC       | GMTR/GMCR                         |
|---------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-----------------------------|-----------------------------------|
| Black or African American | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60 | 10<br>(10, 10)   | 604842<br>(358324, 1020956) | 60484.17<br>(35832.44, 102095.63) |
| Black or African American | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60 | 5<br>(5, 6)      | 572<br>(270, 1213)          | 107.39<br>(52.57, 219.36)         |
| Black or African American | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60 | 5<br>(5, 5)      | 1276<br>(599, 2723)         | 250.63<br>(117.65, 533.90)        |
| Asian                     | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 10<br>(10, 10)   | 33349<br>(22259, 49964)     | 3334.89<br>(2225.89, 4996.41)     |
| Asian                     | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 10<br>(10, 10)   | 63758<br>(45931, 88504)     | 6375.81<br>(4593.12, 8850.40)     |
| Asian                     | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 67 | 5<br>(5, 5)      | 144<br>(92, 225)            | 28.35<br>(18.13, 44.32)           |
| Asian                     | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 67 | 5<br>(5, 6)      | 330<br>(204, 534)           | 62.08<br>(38.25, 100.73)          |
| Asian                     | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 10<br>(10, 10)   | 24553<br>(12536, 48091)     | 2455.34<br>(1253.59, 4809.13)     |
| Asian                     | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 10<br>(10, 10)   | 49522<br>(26709, 91821)     | 4952.19<br>(2670.86, 9182.14)     |
| Asian                     | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 24 | 5<br>(5, 5)      | 174<br>(94, 325)            | 34.87<br>(18.71, 64.97)           |
| Asian                     | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 24 | 6<br>(5, 7)      | 368<br>(184, 735)           | 66.35<br>(30.44, 144.62)          |
| Asian                     | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |
| Asian                     | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |

(continued)

| Group | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Asian | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)      | 5<br>(5, 6)                   | 1.03<br>(0.97, 1.11)                |
| Asian | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Asian | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)   | 27396<br>(5431, 138186)       | 2739.55<br>(543.12, 13818.59)       |
| Asian | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)   | 12500<br>(4740, 32962)        | 1250.02<br>(474.04, 3296.21)        |
| Asian | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)      | 65<br>(17, 245)               | 12.91<br>(3.40, 49.02)              |
| Asian | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)      | 146<br>(18, 1215)             | 29.22<br>(3.51, 243.00)             |
| Asian | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 67 | 10<br>(10, 10)   | 1685637<br>(1167594, 2433528) | 168563.68<br>(116759.36, 243352.76) |
| Asian | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 67 | 10<br>(10, 10)   | 2633046<br>(1864450, 3718486) | 263304.56<br>(186444.95, 371848.60) |
| Asian | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 67 | 5<br>(5, 5)      | 2850<br>(1578, 5149)          | 562.24<br>(311.66, 1014.28)         |
| Asian | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 67 | 5<br>(5, 6)      | 3805<br>(1835, 7889)          | 715.18<br>(348.74, 1466.64)         |
| Asian | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 24 | 10<br>(10, 10)   | 2094481<br>(742718, 5906481)  | 209448.13<br>(74271.83, 590648.10)  |
| Asian | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 24 | 10<br>(10, 10)   | 4848443<br>(2478358, 9485072) | 484844.34<br>(247835.80, 948507.20) |
| Asian | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 24 | 5<br>(5, 5)      | 6020<br>(2360, 15360)         | 1204.08<br>(471.94, 3072.01)        |
| Asian | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 24 | 6<br>(5, 7)      | 8404<br>(2608, 27081)         | 1516.02<br>(420.28, 5468.58)        |
| Asian | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC       | GMTR/GMCR                         |
|----------------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-----------------------------|-----------------------------------|
| Asian                            | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |
| Asian                            | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)      | 5<br>(5, 5)                 | 1.00<br>(1.00, 1.00)              |
| Asian                            | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)      | 5<br>(5, 5)                 | 1.00<br>(1.00, 1.00)              |
| Asian                            | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)   | 750472<br>(176753, 3186420) | 75047.23<br>(17675.28, 318642.03) |
| Asian                            | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)   | 859200<br>(168867, 4371633) | 85919.98<br>(16886.69, 437163.32) |
| Asian                            | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)      | 482<br>(269, 862)           | 96.37<br>(53.86, 172.43)          |
| Asian                            | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)      | 1167<br>(203, 6693)         | 233.34<br>(40.67, 1338.57)        |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)   | 42283<br>(20288, 88120)     | 4228.26<br>(2028.84, 8812.00)     |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)   | 30785<br>(13439, 70516)     | 3078.46<br>(1343.94, 7051.60)     |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)      | 186<br>(63, 554)            | 37.27<br>(12.54, 110.76)          |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)      | 309<br>(55, 1753)           | 61.82<br>(10.90, 350.55)          |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 10<br>(10, 10)   | 22761<br>(8134, 63689)      | 2276.11<br>(813.43, 6368.93)      |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|----------------------------------|-----------------------|---------|---------------------|------------------------|---|------------------|--------------------------|--------------------------------|
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6 | 10<br>(10, 10)   | 85898<br>(68138, 108288) | 8589.81<br>(6813.79, 10828.76) |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 6 | 5<br>(5, 5)      | 244<br>(182, 327)        | 48.86<br>(36.48, 65.43)        |
| American Indian or Alaska Native | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 6 | 7<br>(4, 14)     | 1338<br>(620, 2888)      | 189.36<br>(70.73, 506.98)      |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5 | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5 | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5 | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.00<br>(1.00, 1.00)           |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5 | 5<br>(5, 7)      | 5<br>(5, 5)              | 0.92<br>(0.76, 1.11)           |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4 | 10<br>(10, 10)   | 7559<br>(3837, 14892)    | 755.89<br>(383.69, 1489.16)    |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4 | 10<br>(10, 10)   | 5348<br>(1735, 16488)    | 534.82<br>(173.48, 1648.79)    |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC          | GMTR/GMCR                            |
|----------------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|--------------------------------|--------------------------------------|
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)      | 13<br>(4, 46)                  | 2.68<br>(0.78, 9.17)                 |
| American Indian or Alaska Native | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 4  | 5<br>(5, 5)      | 79<br>(32, 190)                | 15.71<br>(6.48, 38.08)               |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 13 | 10<br>(10, 10)   | 836025<br>(283249, 2467576)    | 83602.47<br>(28324.85, 246757.62)    |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 13 | 10<br>(10, 10)   | 4760602<br>(2359191, 9606399)  | 476060.17<br>(235919.09, 960639.89)  |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 13 | 5<br>(5, 5)      | 3381<br>(548, 20856)           | 676.29<br>(109.65, 4171.15)          |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 13 | 5<br>(5, 5)      | 4097<br>(1137, 14766)          | 819.48<br>(227.39, 2953.28)          |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 6  | 10<br>(10, 10)   | 2320038<br>(501453, 10733961)  | 232003.84<br>(50145.31, 1073396.08)  |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6  | 10<br>(10, 10)   | 7507181<br>(3379449, 16676615) | 750718.10<br>(337944.88, 1667661.53) |
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 6  | 5<br>(5, 5)      | 8919<br>(1502, 52953)          | 1783.72<br>(300.42, 10590.56)        |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N | Baseline GMT/GMC | Post Baseline GMT/GMC       | GMTR/GMCR                         |
|----------------------------------|-----------------------|---------|---------------------|------------------------|---|------------------|-----------------------------|-----------------------------------|
| American Indian or Alaska Native | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 6 | 7<br>(4, 14)     | 9789<br>(1020, 93964)       | 1385.06<br>(263.35, 7284.52)      |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 5 | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 5 | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5 | 5<br>(5, 5)      | 5<br>(5, 5)                 | 1.00<br>(1.00, 1.00)              |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5 | 5<br>(5, 7)      | 5<br>(5, 5)                 | 0.92<br>(0.76, 1.11)              |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 4 | 10<br>(10, 10)   | 272152<br>(65917, 1123631)  | 27215.15<br>(6591.71, 112363.10)  |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 4 | 10<br>(10, 10)   | 677711<br>(214540, 2140827) | 67771.11<br>(21453.97, 214082.67) |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 4 | 5<br>(5, 5)      | 126<br>(26, 608)            | 25.11<br>(5.18, 121.64)           |
| American Indian or Alaska Native | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 4 | 5<br>(5, 5)      | 520<br>(61, 4436)           | 104.04<br>(12.20, 887.23)         |

(continued)

| Group                                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC     | GMTR/GMCR                       |
|---|-----------------------|---------|---------------------|------------------------|----|------------------|---------------------------|---------------------------------|
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 11<br>(9, 14)    | 114776<br>(53301, 247155) | 10095.55<br>(4569.91, 22302.43) |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 10<br>(10, 10)   | 116196<br>(67714, 199391) | 11619.59<br>(6771.36, 19939.11) |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 17 | 6<br>(4, 8)      | 381<br>(198, 736)         | 66.42<br>(37.70, 117.02)        |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 17 | 5<br>(5, 5)      | 982<br>(339, 2849)        | 196.48<br>(67.76, 569.73)       |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)   | 44998<br>(2885, 701952)   | 4499.84<br>(288.46, 70195.19)   |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)   | 107953<br>(71167, 163752) | 10795.26<br>(7116.74, 16375.16) |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)      | 227<br>(17, 2989)         | 45.50<br>(3.46, 597.82)         |

(continued)

| Group                                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|---|-----------------------|---------|---------------------|------------------------|---|------------------|-------------------------|-------------------------------|
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5 | 5<br>(5, 5)      | 489<br>(239, 1000)      | 97.88<br>(47.90, 200.01)      |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1 | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1 | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 1 | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.00<br>(1.00, 1.00)          |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 1 | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.00<br>(1.00, 1.00)          |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1 | 10<br>(10, 10)   | 6237<br>(6237, 6237)    | 623.73<br>(623.73, 623.73)    |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1 | 10<br>(10, 10)   | 10844<br>(10844, 10844) | 1084.43<br>(1084.43, 1084.43) |

(continued)

| Group                                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC          | GMTR/GMCR                            |
|---|-----------------------|---------|---------------------|------------------------|----|------------------|--------------------------------|--------------------------------------|
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)      | 5<br>(5, 5)                    | 1.00<br>(1.00, 1.00)                 |
| Native Hawaiian or Other Pacific Islander | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)      | 5<br>(5, 5)                    | 1.00<br>(1.00, 1.00)                 |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 17 | 11<br>(9, 14)    | 5533419<br>(2490433, 12294540) | 486710.15<br>(203427.87, 1164475.48) |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 17 | 10<br>(10, 10)   | 7662810<br>(3323463, 17667914) | 766281.01<br>(332346.29, 1766791.43) |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 17 | 6<br>(4, 8)      | 10464<br>(2274, 48150)         | 1821.72<br>(378.83, 8760.18)         |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 17 | 5<br>(5, 5)      | 4635<br>(2089, 10284)          | 927.06<br>(417.84, 2056.86)          |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)   | 1828480<br>(947016, 3530396)   | 182848.03<br>(94701.55, 353039.63)   |

(continued)

| Group                                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|---|-----------------------|---------|---------------------|------------------------|---|------------------|-------------------------------|-------------------------------------|
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5 | 10<br>(10, 10)   | 5139344<br>(595014, 44390337) | 513934.43<br>(59501.37, 4439033.72) |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5 | 5<br>(5, 5)      | 2545<br>(185, 35084)          | 509.01<br>(36.92, 7016.90)          |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5 | 5<br>(5, 5)      | 1804<br>(213, 15248)          | 360.81<br>(42.69, 3049.51)          |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 1 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 1 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 1 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 1 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |

(continued)

| Group                                     | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC     | GMTR/GMCR                       |
|---|-----------------------|---------|---------------------|------------------------|----|------------------|---------------------------|---------------------------------|
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1  | 10<br>(10, 10)   | 4780<br>(4780, 4780)      | 477.97<br>(477.97, 477.97)      |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1  | 10<br>(10, 10)   | 61376<br>(61376, 61376)   | 6137.62<br>(6137.62, 6137.62)   |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 1  | 5<br>(5, 5)      | 44<br>(44, 44)            | 8.78<br>(8.78, 8.78)            |
| Native Hawaiian or Other Pacific Islander | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 1  | 5<br>(5, 5)      | 144<br>(144, 144)         | 28.88<br>(28.88, 28.88)         |
| Multiracial                               | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 10<br>(10, 10)   | 21505<br>(13701, 33755)   | 2150.54<br>(1370.10, 3375.53)   |
| Multiracial                               | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 10<br>(10, 10)   | 45067<br>(27165, 74765)   | 4506.67<br>(2716.51, 7476.53)   |
| Multiracial                               | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 52 | 5<br>(5, 5)      | 71<br>(38, 130)           | 14.15<br>(7.67, 26.10)          |
| Multiracial                               | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 52 | 5<br>(5, 5)      | 135<br>(82, 222)          | 27.01<br>(16.44, 44.37)         |
| Multiracial                               | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)   | 55196<br>(16260, 187371)  | 5519.61<br>(1625.98, 18737.06)  |
| Multiracial                               | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)   | 155885<br>(67996, 357377) | 15588.50<br>(6799.58, 35737.70) |

(continued)

| Group       | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Multiracial | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)      | 398<br>(197, 804)             | 79.65<br>(39.46, 160.77)            |
| Multiracial | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)      | 277<br>(153, 502)             | 55.46<br>(30.62, 100.45)            |
| Multiracial | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Multiracial | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Multiracial | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 8  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Multiracial | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 8  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Multiracial | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 10<br>(10, 10)   | 24792<br>(13458, 45670)       | 2479.22<br>(1345.85, 4567.01)       |
| Multiracial | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 10<br>(10, 10)   | 25261<br>(11298, 56479)       | 2526.08<br>(1129.81, 5647.92)       |
| Multiracial | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 19 | 5<br>(5, 5)      | 51<br>(28, 93)                | 10.28<br>(5.69, 18.57)              |
| Multiracial | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 19 | 5<br>(5, 5)      | 190<br>(60, 600)              | 38.04<br>(12.06, 119.98)            |
| Multiracial | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 52 | 10<br>(10, 10)   | 1262157<br>(710446, 2242309)  | 126215.68<br>(71044.61, 224230.92)  |
| Multiracial | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 52 | 10<br>(10, 10)   | 2195866<br>(1476648, 3265387) | 219586.59<br>(147664.79, 326538.73) |
| Multiracial | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 52 | 5<br>(5, 5)      | 1524<br>(697, 3334)           | 304.82<br>(139.36, 666.71)          |
| Multiracial | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 52 | 5<br>(5, 5)      | 1963<br>(778, 4953)           | 392.69<br>(155.66, 990.65)          |
| Multiracial | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 12 | 10<br>(10, 10)   | 3777504<br>(1786314, 7988255) | 377750.36<br>(178631.43, 798825.46) |

(continued)

| Group       | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC          | GMTR/GMCR                            |
|-------------|-----------------------|---------|---------------------|------------------------|----|------------------|--------------------------------|--------------------------------------|
| Multiracial | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12 | 10<br>(10, 10)   | 8118223<br>(3167974, 20803689) | 811822.28<br>(316797.37, 2080368.91) |
| Multiracial | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 12 | 5<br>(5, 5)      | 2411<br>(687, 8455)            | 482.14<br>(137.47, 1690.96)          |
| Multiracial | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 12 | 5<br>(5, 5)      | 10135<br>(6049, 16979)         | 2026.93<br>(1209.86, 3395.82)        |
| Multiracial | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 8  | 10<br>(10, 10)   | 10<br>(10, 10)                 | 1.00<br>(1.00, 1.00)                 |
| Multiracial | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 8  | 10<br>(10, 10)   | 10<br>(10, 10)                 | 1.00<br>(1.00, 1.00)                 |
| Multiracial | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 8  | 5<br>(5, 5)      | 5<br>(5, 5)                    | 1.00<br>(1.00, 1.00)                 |
| Multiracial | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 8  | 5<br>(5, 5)      | 5<br>(5, 5)                    | 1.00<br>(1.00, 1.00)                 |
| Multiracial | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 19 | 10<br>(10, 10)   | 693982<br>(285837, 1684912)    | 69398.16<br>(28583.71, 168491.21)    |
| Multiracial | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 19 | 10<br>(10, 10)   | 791515<br>(327732, 1911609)    | 79151.46<br>(32773.19, 191160.91)    |
| Multiracial | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 19 | 5<br>(5, 5)      | 1034<br>(211, 5057)            | 206.71<br>(42.25, 1011.44)           |
| Multiracial | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 19 | 5<br>(5, 5)      | 2744<br>(676, 11140)           | 548.80<br>(135.18, 2227.99)          |
| Other       | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 10<br>(10, 10)   | 22295<br>(11570, 42963)        | 2229.51<br>(1156.96, 4296.34)        |
| Other       | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 10<br>(10, 10)   | 38007<br>(21259, 67950)        | 3800.73<br>(2125.91, 6794.99)        |
| Other       | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 34 | 5<br>(5, 5)      | 118<br>(54, 259)               | 23.46<br>(10.69, 51.49)              |
| Other       | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 34 | 6<br>(5, 7)      | 254<br>(100, 650)              | 45.07<br>(19.22, 105.68)             |

(continued)

| Group | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Other | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 10<br>(10, 10)   | 18039<br>(7489, 43449)        | 1803.88<br>(748.91, 4344.93)        |
| Other | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 10<br>(10, 10)   | 75844<br>(32129, 179037)      | 7584.42<br>(3212.93, 17903.73)      |
| Other | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7  | 5<br>(5, 5)      | 63<br>(18, 221)               | 12.67<br>(3.62, 44.29)              |
| Other | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 7  | 5<br>(5, 5)      | 283<br>(86, 936)              | 56.63<br>(17.13, 187.20)            |
| Other | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Other | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Other | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Other | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 4  | 6<br>(4, 8)      | 5<br>(5, 5)                   | 0.87<br>(0.67, 1.14)                |
| Other | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)   | 49870<br>(993, 2505753)       | 4987.05<br>(99.25, 250575.29)       |
| Other | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)   | 40496<br>(1871, 876366)       | 4049.58<br>(187.13, 87636.61)       |
| Other | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)      | 221<br>(12, 4185)             | 44.21<br>(2.34, 836.92)             |
| Other | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 5)      | 295<br>(27, 3229)             | 58.92<br>(5.37, 645.90)             |
| Other | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 34 | 10<br>(10, 10)   | 959325<br>(467189, 1969877)   | 95932.51<br>(46718.88, 196987.75)   |
| Other | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 34 | 10<br>(10, 10)   | 2238776<br>(1221484, 4103302) | 223877.62<br>(122148.43, 410330.20) |
| Other | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 34 | 5<br>(5, 5)      | 1974<br>(715, 5452)           | 392.38<br>(142.10, 1083.45)         |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC          | GMTR/GMCR                            |
|--------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|--------------------------------|--------------------------------------|
| Other                    | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 34 | 6<br>(5, 7)      | 3391<br>(1017, 11315)          | 600.81<br>(201.25, 1793.66)          |
| Other                    | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7  | 10<br>(10, 10)   | 4612046<br>(1663462, 12787169) | 461204.60<br>(166346.19, 1278716.85) |
| Other                    | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7  | 10<br>(10, 10)   | 5745695<br>(3340937, 9881364)  | 574569.52<br>(334093.70, 988136.36)  |
| Other                    | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7  | 5<br>(5, 5)      | 2543<br>(573, 11275)           | 508.53<br>(114.67, 2255.10)          |
| Other                    | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 7  | 5<br>(5, 5)      | 4503<br>(1467, 13817)          | 900.51<br>(293.45, 2763.40)          |
| Other                    | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 4  | 10<br>(10, 10)   | 10<br>(10, 10)                 | 1.00<br>(1.00, 1.00)                 |
| Other                    | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 4  | 10<br>(10, 10)   | 10<br>(10, 10)                 | 1.00<br>(1.00, 1.00)                 |
| Other                    | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 4  | 5<br>(5, 5)      | 5<br>(5, 5)                    | 1.00<br>(1.00, 1.00)                 |
| Other                    | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 4  | 6<br>(4, 8)      | 5<br>(5, 5)                    | 0.87<br>(0.67, 1.14)                 |
| Other                    | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 5  | 10<br>(10, 10)   | 390164<br>(12362, 12313729)    | 39016.41<br>(1236.25, 1231372.90)    |
| Other                    | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 5  | 10<br>(10, 10)   | 1950467<br>(62864, 60516607)   | 195046.73<br>(6286.41, 6051660.72)   |
| Other                    | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5  | 5<br>(5, 5)      | 6112<br>(27, 1395272)          | 1222.45<br>(5.36, 279054.32)         |
| Other                    | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5  | 5<br>(5, 5)      | 1609<br>(34, 75283)            | 321.73<br>(6.87, 15056.61)           |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 10<br>(10, 10)   | 19972<br>(12070, 33047)        | 1984.44<br>(1199.39, 3283.33)        |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 10<br>(10, 10)   | 41499<br>(27382, 62895)        | 4133.86<br>(2728.77, 6262.46)        |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC     | GMTR/GMCR                       |
|--------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|---------------------------|---------------------------------|
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 87 | 5<br>(5, 5)      | 85<br>(51, 144)           | 16.41<br>(9.71, 27.74)          |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 87 | 5<br>(5, 5)      | 167<br>(114, 245)         | 32.87<br>(22.41, 48.19)         |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 10<br>(10, 10)   | 57668<br>(23639, 140684)  | 5766.80<br>(2363.88, 14068.40)  |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 10<br>(10, 10)   | 112437<br>(52711, 239834) | 11243.65<br>(5271.13, 23983.41) |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 20 | 6<br>(5, 7)      | 348<br>(94, 1295)         | 63.04<br>(16.08, 247.10)        |
| Not reported and unknown | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 20 | 5<br>(5, 5)      | 581<br>(199, 1695)        | 116.20<br>(39.84, 338.93)       |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 10<br>(10, 10)   | 10<br>(10, 10)            | 1.00<br>(1.00, 1.00)            |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 10<br>(10, 10)   | 10<br>(10, 10)            | 1.00<br>(1.00, 1.00)            |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 14 | 5<br>(5, 5)      | 5<br>(5, 6)               | 1.07<br>(0.93, 1.23)            |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 14 | 5<br>(5, 5)      | 5<br>(5, 5)               | 1.00<br>(1.00, 1.00)            |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 10<br>(10, 10)   | 11890<br>(6465, 21867)    | 1188.99<br>(646.49, 2186.73)    |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 10<br>(10, 10)   | 17779<br>(10512, 30069)   | 1777.89<br>(1051.21, 3006.90)   |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC          | GMTR/GMCR                            |
|--------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|--------------------------------|--------------------------------------|
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 24 | 6<br>(5, 7)      | 46<br>(19, 111)                | 8.22<br>(3.79, 17.84)                |
| Not reported and unknown | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 24 | 5<br>(5, 6)      | 168<br>(59, 476)               | 31.45<br>(11.89, 83.22)              |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 87 | 10<br>(10, 10)   | 958206<br>(602856, 1523015)    | 95207.62<br>(59917.16, 151283.72)    |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 87 | 10<br>(10, 10)   | 1898203<br>(1201387, 2999181)  | 189087.45<br>(119691.94, 298717.41)  |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 87 | 5<br>(5, 5)      | 1331<br>(758, 2339)            | 256.28<br>(146.58, 448.08)           |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 87 | 5<br>(5, 5)      | 2345<br>(1156, 4755)           | 461.94<br>(227.90, 936.32)           |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 20 | 10<br>(10, 10)   | 3239260<br>(1199389, 8748461)  | 323926.04<br>(119938.90, 874846.13)  |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 20 | 10<br>(10, 10)   | 9280577<br>(5784309, 14890128) | 928057.68<br>(578430.93, 1489012.80) |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 20 | 6<br>(5, 7)      | 11045<br>(3104, 39295)         | 2000.02<br>(606.29, 6597.67)         |
| Not reported and unknown | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 20 | 5<br>(5, 5)      | 5210<br>(1481, 18320)          | 1041.90<br>(296.28, 3663.93)         |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 14 | 10<br>(10, 10)   | 10<br>(10, 10)                 | 1.00<br>(1.00, 1.00)                 |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 14 | 10<br>(10, 10)   | 10<br>(10, 10)                 | 1.00<br>(1.00, 1.00)                 |

(continued)

| Group                    | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC       | GMTR/GMCR                         |
|--------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-----------------------------|-----------------------------------|
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 14 | 5<br>(5, 5)      | 5<br>(5, 5)                 | 1.02<br>(0.98, 1.07)              |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 14 | 5<br>(5, 5)      | 5<br>(5, 5)                 | 1.00<br>(1.00, 1.00)              |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 24 | 10<br>(10, 10)   | 401782<br>(153583, 1051084) | 40178.22<br>(15358.33, 105108.37) |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 24 | 10<br>(10, 10)   | 645039<br>(295340, 1408800) | 64503.88<br>(29533.99, 140880.03) |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 24 | 6<br>(5, 7)      | 485<br>(159, 1481)          | 87.38<br>(29.73, 256.78)          |
| Not reported and unknown | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 24 | 5<br>(5, 6)      | 1124<br>(299, 4219)         | 209.99<br>(58.57, 752.84)         |

Table 6i. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Underrepresented minority status

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|--------------------------|--------------------------------|
| Underrepresented minority status |                       |         |                     |                        |     |                  |                          |                                |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 10<br>(10, 10)   | 23355<br>(19242, 28347)  | 2298.01<br>(1896.26, 2784.86)  |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 10<br>(10, 10)   | 40216<br>(34320, 47124)  | 4021.60<br>(3432.03, 4712.44)  |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 420 | 5<br>(5, 5)      | 99<br>(79, 124)          | 19.66<br>(15.68, 24.64)        |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 420 | 5<br>(5, 5)      | 208<br>(163, 266)        | 40.35<br>(31.69, 51.38)        |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 10<br>(10, 10)   | 44605<br>(32113, 61955)  | 4460.46<br>(3211.32, 6195.47)  |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 10<br>(10, 10)   | 90964<br>(70627, 117156) | 9096.36<br>(7062.72, 11715.57) |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 120 | 5<br>(5, 5)      | 238<br>(171, 332)        | 47.22<br>(33.91, 65.75)        |
| Communities of Color             | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 120 | 5<br>(5, 6)      | 545<br>(371, 802)        | 103.86<br>(70.31, 153.42)      |
| Communities of Color             | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Communities of Color             | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Communities of Color             | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)      | 5<br>(5, 5)              | 0.99<br>(0.96, 1.02)           |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)      | 5<br>(5, 6)                   | 1.04<br>(0.95, 1.15)                |
| Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 10<br>(10, 10)   | 17596<br>(12331, 25109)       | 1759.61<br>(1233.11, 2510.90)       |
| Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 10<br>(10, 10)   | 18884<br>(13334, 26743)       | 1888.39<br>(1333.43, 2674.32)       |
| Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 111 | 5<br>(5, 6)      | 54<br>(34, 84)                | 10.35<br>(6.82, 15.71)              |
| Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 111 | 5<br>(5, 5)      | 178<br>(110, 288)             | 35.18<br>(21.73, 56.94)             |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 420 | 10<br>(10, 10)   | 977894<br>(775549, 1233031)   | 96220.17<br>(76347.07, 121266.24)   |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 420 | 10<br>(10, 10)   | 2083276<br>(1732503, 2505069) | 208327.61<br>(173250.30, 250506.88) |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 420 | 5<br>(5, 5)      | 1903<br>(1416, 2557)          | 377.51<br>(280.96, 507.24)          |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 420 | 5<br>(5, 5)      | 2744<br>(2021, 3725)          | 531.46<br>(393.63, 717.56)          |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 120 | 10<br>(10, 10)   | 3146770<br>(2273084, 4356267) | 314676.99<br>(227308.38, 435626.74) |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 120 | 10<br>(10, 10)   | 5991417<br>(4527248, 7929117) | 599141.71<br>(452724.79, 792911.71) |
| Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 120 | 5<br>(5, 5)      | 7086<br>(4582, 10956)         | 1407.15<br>(910.55, 2174.59)        |

(continued)

| Group                | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC       | GMTR/GMCR                         |
|----------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-----------------------------|-----------------------------------|
| Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 120 | 5<br>(5, 6)      | 8885<br>(5903, 13374)       | 1691.75<br>(1126.45, 2540.74)     |
| Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 73  | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |
| Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 73  | 10<br>(10, 10)   | 10<br>(10, 10)              | 1.00<br>(1.00, 1.00)              |
| Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 73  | 5<br>(5, 5)      | 5<br>(5, 5)                 | 0.99<br>(0.96, 1.03)              |
| Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 73  | 5<br>(5, 5)      | 5<br>(5, 5)                 | 0.99<br>(0.97, 1.01)              |
| Communities of Color | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 111 | 10<br>(10, 10)   | 397884<br>(256621, 616908)  | 39788.42<br>(25662.15, 61690.79)  |
| Communities of Color | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 111 | 10<br>(10, 10)   | 734879<br>(489927, 1102301) | 73487.92<br>(48992.72, 110230.12) |
| Communities of Color | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 111 | 5<br>(5, 6)      | 684<br>(382, 1222)          | 131.54<br>(74.79, 231.36)         |
| Communities of Color | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 111 | 5<br>(5, 5)      | 1409<br>(809, 2454)         | 278.73<br>(160.13, 485.18)        |
| White Non-Hispanic   | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 10<br>(10, 10)   | 23438<br>(18669, 29425)     | 2343.79<br>(1866.88, 2942.53)     |
| White Non-Hispanic   | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 10<br>(10, 10)   | 40376<br>(34349, 47460)     | 4031.72<br>(3430.05, 4738.93)     |
| White Non-Hispanic   | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 5<br>(5, 5)      | 115<br>(90, 147)            | 22.83<br>(17.82, 29.23)           |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 5<br>(5, 5)      | 188<br>(146, 241)       | 37.41<br>(29.16, 48.00)       |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)   | 30985<br>(21434, 44793) | 3098.50<br>(2143.36, 4479.29) |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)   | 72481<br>(53061, 99008) | 7248.12<br>(5306.15, 9900.82) |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)      | 148<br>(104, 211)       | 29.21<br>(20.49, 41.65)       |
| White Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)      | 348<br>(226, 535)       | 69.53<br>(45.18, 106.99)      |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)   | 10<br>(10, 10)          | 0.99<br>(0.96, 1.01)          |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.01<br>(1.00, 1.02)          |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 6)      | 5<br>(5, 5)             | 0.96<br>(0.89, 1.04)          |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)   | 10931<br>(7560, 15804)  | 1089.81<br>(753.88, 1575.44)  |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)   | 18868<br>(14808, 24043) | 1886.83<br>(1480.76, 2404.27) |
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)      | 52<br>(37, 74)          | 10.37<br>(7.32, 14.70)        |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| White Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)      | 107<br>(76, 150)              | 21.32<br>(15.15, 29.99)             |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 362 | 10<br>(10, 10)   | 1035293<br>(809568, 1323956)  | 103529.30<br>(80956.76, 132395.58)  |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 362 | 10<br>(10, 10)   | 2145772<br>(1770774, 2600184) | 214266.04<br>(176817.71, 259645.59) |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 362 | 5<br>(5, 5)      | 1376<br>(1010, 1874)          | 273.04<br>(200.41, 371.99)          |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 362 | 5<br>(5, 5)      | 2011<br>(1465, 2761)          | 400.97<br>(292.11, 550.40)          |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 125 | 10<br>(10, 10)   | 1943813<br>(1349835, 2799166) | 194381.34<br>(134983.46, 279916.55) |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 125 | 10<br>(10, 10)   | 4608987<br>(3338577, 6362819) | 460898.73<br>(333857.72, 636281.94) |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 125 | 5<br>(5, 5)      | 4550<br>(2471, 8378)          | 899.93<br>(488.90, 1656.55)         |
| White Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 125 | 5<br>(5, 5)      | 7994<br>(4646, 13757)         | 1598.88<br>(929.14, 2751.39)        |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 67  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.01<br>(0.99, 1.03)                |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 67  | 10<br>(10, 10)   | 10<br>(10, 10)                | 0.99<br>(0.96, 1.01)                |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 67  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |

(continued)

| Group              | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|--------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 67  | 5<br>(5, 6)      | 5<br>(5, 5)                | 0.98<br>(0.90, 1.06)             |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 121 | 10<br>(10, 10)   | 393045<br>(287516, 537306) | 39187.22<br>(28666.35, 53569.39) |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 121 | 10<br>(10, 10)   | 674526<br>(485396, 937351) | 67452.65<br>(48539.56, 93735.08) |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 121 | 5<br>(5, 5)      | 575<br>(371, 892)          | 114.01<br>(73.52, 176.80)        |
| White Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 121 | 5<br>(5, 5)      | 1478<br>(953, 2292)        | 295.55<br>(190.57, 458.35)       |

Table 6j. Geometric mean titer ratios (GMTRs) or geometric mean concentration ratios (GMCRs) between post-vaccinations/pre-vaccination by Age, Underrepresented minority status

| Group                                 | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|---------------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| Age, Underrepresented minority status |                       |         |                     |                        |     |                  |                         |                               |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 10<br>(10, 10)   | 17593<br>(13852, 22344) | 1725.89<br>(1361.64, 2187.59) |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 10<br>(10, 10)   | 30531<br>(25113, 37119) | 3053.10<br>(2511.25, 3711.87) |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 192 | 5<br>(5, 5)      | 76<br>(58, 101)         | 15.18<br>(11.48, 20.07)       |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 192 | 5<br>(5, 5)      | 174<br>(128, 236)       | 33.64<br>(24.93, 45.38)       |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 10<br>(10, 10)   | 34937<br>(23612, 51692) | 3493.66<br>(2361.25, 5169.16) |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 10<br>(10, 10)   | 70998<br>(52424, 96153) | 7099.81<br>(5242.39, 9615.33) |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 69  | 5<br>(5, 5)      | 209<br>(141, 310)       | 41.82<br>(28.22, 61.98)       |
| Age < 65 Communities of Color         | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 69  | 5<br>(5, 6)      | 484<br>(305, 768)       | 91.16<br>(57.15, 145.40)      |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 37  | 5<br>(5, 5)      | 5<br>(5, 5)                | 0.98<br>(0.94, 1.02)             |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 37  | 5<br>(5, 5)      | 5<br>(5, 6)                | 1.05<br>(0.93, 1.19)             |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 10<br>(10, 10)   | 13618<br>(8923, 20783)     | 1361.81<br>(892.33, 2078.29)     |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 10<br>(10, 10)   | 13717<br>(9065, 20756)     | 1371.71<br>(906.53, 2075.61)     |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 5<br>(5, 6)      | 42<br>(25, 72)             | 8.09<br>(4.93, 13.29)            |
| Age < 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 5<br>(5, 5)      | 150<br>(84, 267)           | 30.02<br>(16.87, 53.39)          |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 192 | 10<br>(10, 10)   | 741900<br>(555661, 990562) | 72781.13<br>(54544.47, 97115.13) |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 192 | 10<br>(10, 10)   | 1629402<br>(1297120, 2046806) | 162940.23<br>(129711.97, 204680.56) |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 192 | 5<br>(5, 5)      | 1435<br>(996, 2067)           | 285.33<br>(198.09, 411.00)          |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 192 | 5<br>(5, 5)      | 2230<br>(1526, 3260)          | 431.29<br>(297.10, 626.08)          |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 69  | 10<br>(10, 10)   | 2542683<br>(1712040, 3776334) | 254268.26<br>(171204.01, 377633.36) |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 69  | 10<br>(10, 10)   | 5081700<br>(3610831, 7151727) | 508170.01<br>(361083.05, 715172.74) |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 69  | 5<br>(5, 5)      | 5550<br>(3299, 9337)          | 1109.99<br>(659.78, 1867.40)        |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 69  | 5<br>(5, 6)      | 7380<br>(4562, 11940)         | 1389.33<br>(861.24, 2241.22)        |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 37  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age < 65<br>Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 37  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 37  | 5<br>(5, 5)      | 5<br>(5, 5)                | 0.99<br>(0.95, 1.04)             |
| Age < 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 37  | 5<br>(5, 5)      | 5<br>(5, 5)                | 0.99<br>(0.97, 1.01)             |
| Age < 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 10<br>(10, 10)   | 277278<br>(163947, 468952) | 27727.83<br>(16394.70, 46895.20) |
| Age < 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 10<br>(10, 10)   | 543679<br>(333997, 884998) | 54367.88<br>(33399.71, 88499.76) |
| Age < 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 5<br>(5, 6)      | 466<br>(233, 933)          | 89.60<br>(45.67, 175.78)         |
| Age < 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 5<br>(5, 5)      | 1073<br>(554, 2078)        | 214.52<br>(110.72, 415.67)       |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 10<br>(10, 10)   | 18239<br>(13758, 24181)    | 1823.94<br>(1375.79, 2418.07)    |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 10<br>(10, 10)   | 31442<br>(25791, 38330)    | 3144.18<br>(2579.11, 3833.04)    |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 175 | 5<br>(5, 5)      | 98<br>(72, 132)            | 19.42<br>(14.32, 26.34)          |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC   | GMTR/GMCR                     |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------|-------------------------------|
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 175 | 5<br>(5, 5)      | 163<br>(120, 222)       | 32.68<br>(24.04, 44.44)       |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 10<br>(10, 10)   | 19045<br>(11981, 30275) | 1904.54<br>(1198.08, 3027.54) |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59  | 10<br>(10, 10)   | 50450<br>(34089, 74664) | 5044.99<br>(3408.87, 7466.38) |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 59  | 5<br>(5, 5)      | 100<br>(65, 155)        | 20.06<br>(12.98, 31.00)       |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 59  | 5<br>(5, 5)      | 255<br>(148, 438)       | 50.94<br>(29.59, 87.68)       |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31  | 10<br>(10, 10)   | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00)          |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31  | 10<br>(10, 10)   | 10<br>(10, 10)          | 0.98<br>(0.95, 1.02)          |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 31  | 5<br>(5, 5)      | 5<br>(5, 5)             | 1.00<br>(1.00, 1.00)          |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 31  | 5<br>(5, 6)      | 5<br>(5, 5)             | 0.95<br>(0.85, 1.05)          |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61  | 10<br>(10, 10)   | 7844<br>(4943, 12447)         | 784.36<br>(494.26, 1244.74)         |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61  | 10<br>(10, 10)   | 13337<br>(9897, 17972)        | 1333.71<br>(989.74, 1797.23)        |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 5<br>(5, 5)      | 38<br>(25, 58)                | 7.54<br>(4.91, 11.57)               |
| Age < 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 5<br>(5, 5)      | 78<br>(51, 118)               | 15.51<br>(10.18, 23.62)             |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 175 | 10<br>(10, 10)   | 821667<br>(605817, 1114423)   | 82166.69<br>(60581.70, 111442.32)   |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 175 | 10<br>(10, 10)   | 1724310<br>(1360533, 2185355) | 172431.05<br>(136053.26, 218535.49) |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 175 | 5<br>(5, 5)      | 1085<br>(742, 1587)           | 215.99<br>(147.67, 315.94)          |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 175 | 5<br>(5, 5)      | 1624<br>(1097, 2405)          | 324.87<br>(219.40, 481.06)          |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 59  | 10<br>(10, 10)   | 1330657<br>(839177, 2109982)  | 133065.71<br>(83917.71, 210998.18)  |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 59 | 10<br>(10, 10)   | 3419951<br>(2265916, 5161739) | 341995.14<br>(226591.60, 516173.95) |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 59 | 5<br>(5, 5)      | 2838<br>(1308, 6159)          | 567.69<br>(261.64, 1231.71)         |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 59 | 5<br>(5, 5)      | 6125<br>(3095, 12121)         | 1224.99<br>(619.02, 2424.13)        |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 31 | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.01<br>(0.99, 1.03)                |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 31 | 10<br>(10, 10)   | 10<br>(10, 10)                | 0.98<br>(0.95, 1.02)                |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 31 | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 31 | 5<br>(5, 6)      | 5<br>(5, 5)                   | 0.96<br>(0.86, 1.07)                |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 61 | 10<br>(10, 10)   | 264698<br>(179593, 390131)    | 26469.79<br>(17959.33, 39013.14)    |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 61 | 10<br>(10, 10)   | 451492<br>(299075, 681584)    | 45149.17<br>(29907.49, 68158.43)    |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 61  | 5<br>(5, 5)      | 376<br>(219, 646)          | 74.74<br>(43.50, 128.41)         |
| Age < 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 61  | 5<br>(5, 5)      | 1102<br>(639, 1903)        | 220.47<br>(127.72, 380.58)       |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 10<br>(10, 10)   | 67566<br>(54928, 83111)    | 6723.29<br>(5465.75, 8270.15)    |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 10<br>(10, 10)   | 113000<br>(94968, 134457)  | 11300.05<br>(9496.80, 13445.69)  |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 228 | 5<br>(5, 5)      | 263<br>(208, 334)          | 51.85<br>(40.91, 65.71)          |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 228 | 5<br>(5, 5)      | 409<br>(322, 520)          | 79.83<br>(63.06, 101.06)         |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 10<br>(10, 10)   | 127850<br>(82403, 198362)  | 12784.98<br>(8240.28, 19836.18)  |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 10<br>(10, 10)   | 264698<br>(193965, 361225) | 26469.82<br>(19396.51, 36122.55) |
| Age ≥ 65<br>Communities of Color  | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 51  | 5<br>(5, 6)      | 414<br>(254, 674)          | 79.73<br>(50.17, 126.69)         |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC    | GMTR/GMCR                      |
|----------------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|--------------------------|--------------------------------|
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 51 | 5<br>(5, 5)      | 911<br>(557, 1491)       | 182.23<br>(111.38, 298.14)     |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36 | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36 | 10<br>(10, 10)   | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00)           |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36 | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.02<br>(0.98, 1.06)           |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36 | 5<br>(5, 5)      | 5<br>(5, 5)              | 1.01<br>(0.94, 1.09)           |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50 | 10<br>(10, 10)   | 57615<br>(37847, 87707)  | 5761.48<br>(3784.71, 8770.72)  |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50 | 10<br>(10, 10)   | 82913<br>(55530, 123801) | 8291.33<br>(5552.97, 12380.06) |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 50 | 5<br>(5, 5)      | 167<br>(101, 276)        | 32.28<br>(19.55, 53.29)        |
| Age ≥ 65<br>Communities of Color | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 50 | 5<br>(5, 6)      | 390<br>(234, 650)        | 73.32<br>(44.82, 119.94)       |

(continued)

| Group                            | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC           | GMTR/GMCR                             |
|----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|---------------------------------|---------------------------------------|
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 228 | 10<br>(10, 10)   | 2754587<br>(2268630, 3344640)   | 274100.63<br>(225748.76, 332808.72)   |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 228 | 10<br>(10, 10)   | 5234940<br>(4335352, 6321193)   | 523493.98<br>(433535.17, 632119.29)   |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 228 | 5<br>(5, 5)      | 5478<br>(4015, 7473)            | 1078.45<br>(791.36, 1469.70)          |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 228 | 5<br>(5, 5)      | 5966<br>(4475, 7954)            | 1163.05<br>(875.98, 1544.19)          |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 51  | 10<br>(10, 10)   | 7886529<br>(5982602, 10396367)  | 788652.86<br>(598260.24, 1039636.74)  |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 51  | 10<br>(10, 10)   | 12184499<br>(9858697, 15058989) | 1218449.89<br>(985869.74, 1505898.89) |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 51  | 5<br>(5, 6)      | 20307<br>(11438, 36054)         | 3912.01<br>(2231.34, 6858.57)         |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 51  | 5<br>(5, 5)      | 19769<br>(10376, 37665)         | 3953.73<br>(2075.11, 7533.05)         |
| Age ≥ 65<br>Communities of Color | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)   | 10<br>(10, 10)                  | 1.00<br>(1.00, 1.00)                  |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 0.98<br>(0.94, 1.02)                |
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 50  | 10<br>(10, 10)   | 2116643<br>(1388474, 3226693) | 211664.33<br>(138847.41, 322669.26) |
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 50  | 10<br>(10, 10)   | 2964324<br>(2089369, 4205680) | 296432.41<br>(208936.91, 420567.97) |
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 50  | 5<br>(5, 5)      | 4026<br>(2199, 7373)          | 777.87<br>(423.25, 1429.59)         |
| Age ≥ 65<br>Communities of Color  | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 50  | 5<br>(5, 6)      | 4985<br>(2691, 9234)          | 936.31<br>(513.96, 1705.72)         |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 10<br>(10, 10)   | 60501<br>(48781, 75037)       | 6050.09<br>(4878.07, 7503.69)       |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 10<br>(10, 10)   | 103956<br>(85919, 125780)     | 10323.75<br>(8540.15, 12479.85)     |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC      | GMTR/GMCR                        |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|----------------------------|----------------------------------|
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 187 | 5<br>(5, 5)      | 214<br>(164, 280)          | 42.04<br>(32.14, 54.99)          |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 187 | 5<br>(5, 5)      | 317<br>(243, 412)          | 62.39<br>(47.99, 81.11)          |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66  | 10<br>(10, 10)   | 171330<br>(122104, 240402) | 17133.00<br>(12210.38, 24040.16) |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66  | 10<br>(10, 10)   | 258922<br>(193660, 346179) | 25892.24<br>(19365.96, 34617.87) |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 66  | 5<br>(5, 6)      | 575<br>(355, 932)          | 109.39<br>(68.12, 175.65)        |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 66  | 5<br>(5, 5)      | 1037<br>(709, 1518)        | 207.43<br>(141.72, 303.60)       |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36  | 10<br>(10, 10)   | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00)             |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36  | 5<br>(5, 5)      | 5<br>(5, 5)                | 1.02<br>(0.98, 1.06)             |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N   | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|-----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36  | 5<br>(5, 5)      | 5<br>(5, 5)                   | 1.00<br>(1.00, 1.00)                |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60  | 10<br>(10, 10)   | 34684<br>(23682, 50795)       | 3422.26<br>(2343.82, 4996.92)       |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60  | 10<br>(10, 10)   | 63090<br>(45886, 86746)       | 6309.04<br>(4588.59, 8674.56)       |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60  | 5<br>(5, 5)      | 160<br>(99, 257)              | 31.48<br>(19.58, 50.61)             |
| Age ≥ 65<br>White<br>Non-Hispanic | D29 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60  | 5<br>(5, 5)      | 323<br>(207, 502)             | 64.50<br>(41.47, 100.34)            |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 187 | 10<br>(10, 10)   | 2480906<br>(1963293, 3134986) | 248090.62<br>(196329.26, 313498.63) |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 187 | 10<br>(10, 10)   | 4905828<br>(4009921, 6001900) | 487190.64<br>(398077.65, 596252.31) |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 187 | 5<br>(5, 5)      | 3376<br>(2393, 4763)          | 662.37<br>(469.40, 934.65)          |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 187 | 5<br>(5, 5)      | 4511<br>(3339, 6096)          | 888.68<br>(657.99, 1200.26)         |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC            | GMTR/GMCR                              |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|----------------------------------|--|
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 66 | 10<br>(10, 10)   | 7361735<br>(5495760, 9861264)    | 736173.49<br>(549575.99, 986126.43)    |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 66 | 10<br>(10, 10)   | 13150407<br>(11178796, 15469753) | 1315040.71<br>(1117879.58, 1546975.29) |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 66 | 5<br>(5, 6)      | 23885<br>(15539, 36713)          | 4542.74<br>(2980.14, 6924.67)          |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 66 | 5<br>(5, 5)      | 20383<br>(12350, 33642)          | 4076.69<br>(2470.01, 6728.46)          |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 36 | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 36 | 10<br>(10, 10)   | 10<br>(10, 10)                   | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 36 | 5<br>(5, 5)      | 5<br>(5, 5)                      | 1.00<br>(1.00, 1.00)                   |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 36 | 5<br>(5, 5)      | 5<br>(5, 6)                      | 1.04<br>(0.96, 1.12)                   |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 60 | 10<br>(10, 10)   | 1555275<br>(1070146, 2260326)    | 153460.09<br>(105621.81, 222965.32)    |

(continued)

| Group                             | Visit                 | Arm     | Baseline SARS-CoV-2 | Marker                 | N  | Baseline GMT/GMC | Post Baseline GMT/GMC         | GMTR/GMCR                           |
|-----------------------------------|-----------------------|---------|---------------------|------------------------|----|------------------|-------------------------------|-------------------------------------|
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 60 | 10<br>(10, 10)   | 2726537<br>(1931325, 3849174) | 272653.70<br>(193132.47, 384917.37) |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 60 | 5<br>(5, 5)      | 2516<br>(1427, 4435)          | 495.52<br>(282.39, 869.51)          |
| Age ≥ 65<br>White<br>Non-Hispanic | D57 fold-rise over D1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 60 | 5<br>(5, 5)      | 4096<br>(2471, 6792)          | 819.28<br>(494.12, 1358.43)         |

Table 7. The ratios of GMTs/GMCs between groups

| Group 1 vs 2              | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|---------------------------|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(0.99, 1.01) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.01<br>(1.00, 1.01) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.01<br>(0.99, 1.02) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.01<br>(0.99, 1.04) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.03<br>(0.98, 1.08) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.98<br>(0.96, 1.00) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 11)  | 0.98<br>(0.93, 1.02) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 0.99<br>(0.98, 1.01) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.98, 1.01) |
| Age $\geq$ 65 vs Age < 65 | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.98<br>(0.93, 1.03) |

(continued)

| Group 1 vs 2              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC            | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|---------------------------|--------|---------|---------------------|------------------------|----------------------------|-------------------------|----------------------|
| Age $\geq$ 65 vs Age < 65 | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)             | 10<br>(10, 10)          | 1.01<br>(0.99, 1.02) |
| Age $\geq$ 65 vs Age < 65 | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)             | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 vs Age < 65 | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                | 5<br>(5, 5)             | 1.00<br>(0.95, 1.05) |
| Age $\geq$ 65 vs Age < 65 | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                | 5<br>(5, 5)             | 1.01<br>(0.98, 1.04) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 65260<br>(56734, 75068)    | 17393<br>(14565, 20770) | 3.75<br>(2.99, 4.70) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 112166<br>(98902, 127209)  | 31397<br>(27475, 35879) | 3.57<br>(2.97, 4.29) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 254<br>(214, 300)          | 85<br>(69, 103)         | 3.00<br>(2.32, 3.89) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 381<br>(321, 451)          | 157<br>(129, 192)       | 2.42<br>(1.86, 3.15) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 158619<br>(123545, 203649) | 24939<br>(18393, 33814) | 6.36<br>(4.29, 9.43) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 262073<br>(211994, 323982) | 59400<br>(46119, 76506) | 4.41<br>(3.17, 6.14) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 522<br>(373, 731)          | 144<br>(104, 198)       | 3.63<br>(2.28, 5.80) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 988<br>(733, 1331)         | 339<br>(238, 482)       | 2.92<br>(1.84, 4.63) |

(continued)

| Group 1 vs 2              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|---------------------------|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 1.01<br>(0.98, 1.04) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 0.99<br>(0.95, 1.03) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 41836<br>(32047, 54614)       | 9737<br>(7318, 12957)         | 4.30<br>(2.91, 6.35) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 66891<br>(53117, 84238)       | 13380<br>(10752, 16650)       | 5.00<br>(3.64, 6.87) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 156<br>(112, 216)             | 40<br>(29, 54)                | 3.93<br>(2.51, 6.13) |
| Age $\geq$ 65 vs Age < 65 | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 301<br>(219, 413)             | 106<br>(76, 147)              | 2.85<br>(1.80, 4.49) |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 2692372<br>(2329146, 3112243) | 737116<br>(604473, 898866)    | 3.65<br>(2.86, 4.67) |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 5171042<br>(4536102, 5894857) | 1643373<br>(1397160, 1932976) | 3.15<br>(2.55, 3.88) |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 4259<br>(3414, 5312)          | 1136<br>(890, 1449)           | 3.75<br>(2.70, 5.21) |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5506<br>(4535, 6685)          | 1750<br>(1355, 2260)          | 3.15<br>(2.28, 4.34) |

(continued)

| Group 1 vs 2              | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC                  | Group 2 GMT/GMC               | Ratios of GMT/GMC     |
|---------------------------|--------|---------|---------------------|------------------------|----------------------------------|-------------------------------|-----------------------|
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7520373<br>(6146909, 9200723)    | 1708031<br>(1250384, 2333179) | 4.40<br>(3.04, 6.38)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 13148461<br>(11661345, 14825221) | 4266733<br>(3292306, 5529560) | 3.08<br>(2.32, 4.10)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 21658<br>(15437, 30385)          | 4061<br>(2527, 6527)          | 5.33<br>(2.98, 9.55)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 19480<br>(13318, 28494)          | 6238<br>(4090, 9513)          | 3.12<br>(1.77, 5.51)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                   | 10<br>(10, 10)                | 0.99<br>(0.98, 1.01)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)                   | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                      | 5<br>(5, 5)                   | 1.02<br>(0.99, 1.05)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                      | 5<br>(5, 5)                   | 1.01<br>(0.97, 1.05)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1675605<br>(1276999, 2198632)    | 270061<br>(201183, 362521)    | 6.20<br>(4.16, 9.26)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 2790960<br>(2209589, 3525298)    | 484596<br>(361146, 650244)    | 5.76<br>(3.96, 8.38)  |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 2827<br>(1887, 4233)             | 387<br>(262, 572)             | 7.30<br>(4.17, 12.81) |
| Age $\geq$ 65 vs Age < 65 | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 4185<br>(2859, 6127)             | 1009<br>(665, 1531)           | 4.15<br>(2.36, 7.30)  |

(continued)

| Group 1 vs 2           | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|------------------------|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| At-risk vs Not at-risk | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(0.99, 1.01) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.01) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.02<br>(1.00, 1.04) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.00<br>(0.98, 1.02) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.01<br>(0.97, 1.05) |
| At-risk vs Not at-risk | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.96, 1.02) |
| At-risk vs Not at-risk | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 11)  | 0.97<br>(0.92, 1.03) |
| At-risk vs Not at-risk | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 11)  | 10<br>(10, 10)  | 1.02<br>(0.98, 1.06) |
| At-risk vs Not at-risk | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.02<br>(0.98, 1.05) |
| At-risk vs Not at-risk | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.98<br>(0.92, 1.04) |

(continued)

| Group 1 vs 2           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC           | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|------------------------|--------|---------|---------------------|------------------------|---------------------------|-------------------------|----------------------|
| At-risk vs Not at-risk | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)            | 10<br>(10, 10)          | 1.01<br>(0.99, 1.02) |
| At-risk vs Not at-risk | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)            | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| At-risk vs Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)               | 5<br>(5, 5)             | 0.99<br>(0.94, 1.04) |
| At-risk vs Not at-risk | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)               | 5<br>(5, 5)             | 1.00<br>(0.97, 1.03) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 26276<br>(22610, 30535)   | 21736<br>(17965, 26298) | 1.21<br>(0.95, 1.55) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 45842<br>(40067, 52448)   | 39200<br>(34023, 45165) | 1.17<br>(0.96, 1.43) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 103<br>(87, 122)          | 108<br>(87, 133)        | 0.96<br>(0.73, 1.26) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 215<br>(180, 258)         | 180<br>(145, 223)       | 1.20<br>(0.91, 1.59) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 55528<br>(43641, 70653)   | 31130<br>(22510, 43050) | 1.78<br>(1.17, 2.72) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 103862<br>(82479, 130788) | 73051<br>(55946, 95386) | 1.42<br>(0.99, 2.05) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 220<br>(161, 302)         | 175<br>(124, 247)       | 1.26<br>(0.78, 2.02) |
| At-risk vs Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 443<br>(318, 617)         | 412<br>(284, 597)       | 1.08<br>(0.65, 1.78) |

(continued)

| Group 1 vs 2           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|------------------------|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| At-risk vs Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| At-risk vs Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| At-risk vs Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 1.04<br>(0.99, 1.09) |
| At-risk vs Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 0.99<br>(0.94, 1.03) |
| At-risk vs Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 16713<br>(12642, 22096)       | 11818<br>(8756, 15950)        | 1.41<br>(0.93, 2.16) |
| At-risk vs Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 26705<br>(21285, 33505)       | 16070<br>(12770, 20222)       | 1.66<br>(1.18, 2.33) |
| At-risk vs Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 69<br>(52, 93)                | 47<br>(34, 64)                | 1.48<br>(0.96, 2.30) |
| At-risk vs Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 180<br>(133, 243)             | 116<br>(82, 164)              | 1.55<br>(0.97, 2.47) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 1142597<br>(961925, 1357205)  | 904842<br>(732112, 1118324)   | 1.26<br>(0.96, 1.66) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 2144439<br>(1840509, 2498559) | 2066294<br>(1739231, 2454861) | 1.04<br>(0.82, 1.31) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 1796<br>(1424, 2264)          | 1394<br>(1075, 1808)          | 1.29<br>(0.91, 1.83) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 2766<br>(2265, 3377)          | 2041<br>(1549, 2690)          | 1.35<br>(0.96, 1.91) |

(continued)

| Group 1 vs 2           | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|------------------------|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| At-risk vs Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 2930270<br>(2216035, 3874704) | 2113273<br>(1525010, 2928453) | 1.39<br>(0.89, 2.15) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 6396516<br>(5214355, 7846688) | 5023873<br>(3827375, 6594416) | 1.27<br>(0.90, 1.80) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 6128<br>(4355, 8625)          | 5532<br>(3337, 9171)          | 1.11<br>(0.59, 2.07) |
| At-risk vs Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 11182<br>(7684, 16271)        | 6928<br>(4429, 10838)         | 1.61<br>(0.90, 2.90) |
| At-risk vs Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.01<br>(0.99, 1.04) |
| At-risk vs Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| At-risk vs Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 1.00<br>(0.98, 1.02) |
| At-risk vs Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 1.03<br>(0.99, 1.07) |
| At-risk vs Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 663561<br>(492320, 894363)    | 320294<br>(235413, 435781)    | 2.07<br>(1.33, 3.22) |
| At-risk vs Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1012116<br>(794913, 1288669)  | 594413<br>(435730, 810886)    | 1.70<br>(1.13, 2.56) |
| At-risk vs Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 931<br>(651, 1331)            | 482<br>(318, 728)             | 1.93<br>(1.10, 3.39) |
| At-risk vs Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 2086<br>(1418, 3067)          | 1143<br>(737, 1774)           | 1.82<br>(1.01, 3.29) |

(continued)

| Group 1 vs 2                             | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|--|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(0.98, 1.01) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.03<br>(1.00, 1.07) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.98, 1.01) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.98<br>(0.95, 1.02) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.95, 1.03) |

(continued)

| Group 1 vs 2                             | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|--|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 11)  | 0.97<br>(0.91, 1.03) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 11)  | 10<br>(10, 10)  | 1.03<br>(0.97, 1.10) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.03<br>(0.97, 1.08) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 6)     | 0.98<br>(0.91, 1.05) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.98<br>(0.93, 1.04) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.00<br>(0.97, 1.03) |

(continued)

| Group 1 vs 2                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC         | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------|-------------------------|----------------------|
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 16530<br>(13368, 20441) | 17639<br>(14174, 21953) | 0.94<br>(0.69, 1.27) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 31028<br>(25725, 37423) | 31500<br>(26782, 37050) | 0.98<br>(0.77, 1.26) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 68<br>(54, 85)          | 90<br>(70, 115)         | 0.75<br>(0.54, 1.05) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 159<br>(123, 204)       | 157<br>(122, 200)       | 1.01<br>(0.71, 1.44) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 30603<br>(22501, 41623) | 23567<br>(16129, 34434) | 1.30<br>(0.80, 2.12) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 62641<br>(46271, 84801) | 58534<br>(42846, 79967) | 1.07<br>(0.69, 1.65) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 142<br>(95, 213)        | 144<br>(97, 214)        | 0.99<br>(0.56, 1.74) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 291<br>(187, 453)       | 353<br>(229, 545)       | 0.82<br>(0.44, 1.53) |

(continued)

| Group 1 vs 2                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC         | Group 2 GMT/GMC        | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------|------------------------|----------------------|
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)          | 10<br>(10, 10)         | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)          | 10<br>(10, 10)         | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 6)             | 5<br>(5, 5)            | 1.04<br>(0.96, 1.12) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)             | 5<br>(5, 5)            | 0.97<br>(0.93, 1.03) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10221<br>(7219, 14470)  | 9616<br>(6788, 13622)  | 1.06<br>(0.65, 1.74) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 16112<br>(12299, 21107) | 12751<br>(9770, 16642) | 1.26<br>(0.86, 1.85) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 48<br>(34, 67)          | 38<br>(26, 55)         | 1.26<br>(0.77, 2.08) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 127<br>(87, 186)        | 101<br>(68, 150)       | 1.26<br>(0.72, 2.19) |

(continued)

| Group 1 vs 2                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 761200<br>(595277, 973370)    | 730590<br>(572430, 932450)    | 1.04<br>(0.74, 1.47) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 1498825<br>(1211392, 1854460) | 1685764<br>(1382036, 2056240) | 0.89<br>(0.66, 1.19) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 1203<br>(876, 1652)           | 1118<br>(830, 1506)           | 1.08<br>(0.70, 1.66) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 2067<br>(1571, 2720)          | 1671<br>(1216, 2295)          | 1.24<br>(0.81, 1.88) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 1815884<br>(1228679, 2683724) | 1679359<br>(1144789, 2463552) | 1.08<br>(0.63, 1.87) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 4547755<br>(3405518, 6073108) | 4192147<br>(3040678, 5779665) | 1.08<br>(0.70, 1.67) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 2953<br>(1859, 4690)          | 4435<br>(2453, 8017)          | 0.67<br>(0.31, 1.41) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 7954<br>(4852, 13039)         | 5833<br>(3464, 9821)          | 1.36<br>(0.66, 2.80) |

(continued)

| Group 1 vs 2                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC            | Group 2 GMT/GMC            | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|----------------------------|----------------------------|----------------------|
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 11)             | 10<br>(10, 10)             | 1.02<br>(0.98, 1.07) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)             | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                | 5<br>(5, 5)                | 1.02<br>(0.98, 1.05) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                | 5<br>(5, 5)                | 1.02<br>(0.98, 1.07) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 417627<br>(286526, 608715) | 241209<br>(168681, 344922) | 1.73<br>(1.03, 2.91) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 575539<br>(423609, 781958) | 463469<br>(322830, 665378) | 1.24<br>(0.77, 1.99) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 502<br>(325, 776)          | 362<br>(224, 583)          | 1.39<br>(0.73, 2.65) |
| Age < 65 At-risk vs Age < 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 1382<br>(851, 2245)        | 930<br>(559, 1549)         | 1.49<br>(0.73, 3.00) |

(continued)

| Group 1 vs 2                                       | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|--|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(0.99, 1.02) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.01<br>(1.00, 1.03) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.00<br>(0.97, 1.02) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.96, 1.03) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 6)     | 5<br>(5, 5)     | 1.05<br>(0.96, 1.15) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.00<br>(1.00, 1.00) |

(continued)

| Group 1 vs 2                                       | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|--|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.96, 1.01) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 11)  | 10<br>(10, 10)  | 1.02<br>(0.98, 1.06) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.01<br>(0.95, 1.08) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.95, 1.03) |

(continued)

| Group 1 vs 2                                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC            | Group 2 GMT/GMC            | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|----------------------------|----------------------------|----------------------|
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 54232<br>(44615, 65922)    | 80069<br>(65707, 97571)    | 0.68<br>(0.51, 0.89) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 84391<br>(70325, 101269)   | 153593<br>(130667, 180543) | 0.55<br>(0.43, 0.70) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 199<br>(157, 252)          | 332<br>(263, 418)          | 0.60<br>(0.43, 0.84) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 348<br>(276, 438)          | 421<br>(328, 540)          | 0.83<br>(0.59, 1.16) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 188670<br>(129392, 275106) | 139826<br>(99996, 195520)  | 1.35<br>(0.82, 2.23) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 293282<br>(210942, 407763) | 241494<br>(182978, 318724) | 1.21<br>(0.79, 1.86) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 541<br>(337, 870)          | 508<br>(317, 815)          | 1.06<br>(0.55, 2.08) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 1052<br>(680, 1627)        | 944<br>(626, 1422)         | 1.12<br>(0.62, 2.02) |

(continued)

| Group 1 vs 2                             | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC          | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|--------------------------|-------------------------|----------------------|
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)           | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)           | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)              | 5<br>(5, 5)             | 1.03<br>(0.99, 1.08) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)              | 5<br>(5, 5)             | 1.02<br>(0.98, 1.06) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 48060<br>(30237, 76388)  | 38048<br>(27669, 52321) | 1.26<br>(0.72, 2.22) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 79058<br>(52125, 119908) | 59664<br>(45819, 77691) | 1.33<br>(0.81, 2.17) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 155<br>(89, 270)         | 156<br>(105, 232)       | 0.99<br>(0.50, 1.96) |
| Age ≥ 65 At-risk vs Age ≥ 65 Not at-risk | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 378<br>(233, 613)        | 257<br>(170, 390)       | 1.47<br>(0.77, 2.79) |

(continued)

| Group 1 vs 2                                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC                  | Group 2 GMT/GMC                  | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|----------------------------------|----------------------------------|----------------------|
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 2156196<br>(1736284, 2677662)    | 3441017<br>(2860842, 4138850)    | 0.63<br>(0.47, 0.83) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 3754377<br>(3053564, 4616033)    | 7365218<br>(6408010, 8465410)    | 0.51<br>(0.40, 0.65) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 3359<br>(2423, 4656)             | 5534<br>(4137, 7404)             | 0.61<br>(0.39, 0.94) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 4361<br>(3299, 5763)             | 7125<br>(5468, 9285)             | 0.61<br>(0.42, 0.90) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 7826271<br>(5853680, 10463591)   | 7305563<br>(5522547, 9664247)    | 1.07<br>(0.72, 1.60) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 12884976<br>(10641883, 15600868) | 13343347<br>(11421210, 15588971) | 0.97<br>(0.76, 1.23) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 27431<br>(17819, 42227)          | 18240<br>(11134, 29880)          | 1.50<br>(0.78, 2.88) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 22502<br>(13237, 38254)          | 17541<br>(10280, 29932)          | 1.28<br>(0.61, 2.71) |

(continued)

| Group 1 vs 2                                       | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                   | 5<br>(5, 6)                   | 0.96<br>(0.90, 1.02) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 6)                   | 5<br>(5, 5)                   | 1.04<br>(0.97, 1.11) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 1793880<br>(1112795, 2891824) | 1599200<br>(1156266, 2211811) | 1.12<br>(0.63, 1.99) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 3402410<br>(2325361, 4978321) | 2437171<br>(1815977, 3270859) | 1.40<br>(0.87, 2.25) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 3501<br>(1863, 6577)          | 2442<br>(1442, 4134)          | 1.43<br>(0.63, 3.27) |
| Age $\geq$ 65 At-risk vs Age $\geq$ 65 Not at-risk | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5048<br>(2709, 9408)          | 3681<br>(2278, 5949)          | 1.37<br>(0.63, 3.00) |
| Male vs Female                                     | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.01<br>(0.99, 1.02) |

(continued)

| Group 1 vs 2   | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|----------------|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Male vs Female | Day 1 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.98, 1.01) |
| Male vs Female | Day 1 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.97, 1.01) |
| Male vs Female | Day 1 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.98<br>(0.94, 1.02) |
| Male vs Female | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.01<br>(0.96, 1.05) |
| Male vs Female | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 11<br>(9, 12)   | 10<br>(10, 10)  | 1.05<br>(0.95, 1.17) |
| Male vs Female | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 0.99<br>(0.97, 1.01) |
| Male vs Female | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.98, 1.01) |
| Male vs Female | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 6)     | 0.97<br>(0.91, 1.03) |
| Male vs Female | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(0.99, 1.00) |
| Male vs Female | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.97<br>(0.92, 1.02) |
| Male vs Female | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.96, 1.02) |

(continued)

| Group 1 vs 2   | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC          | Group 2 GMT/GMC          | Ratios of GMT/GMC    |
|----------------|--------|---------|---------------------|------------------------|--------------------------|--------------------------|----------------------|
| Male vs Female | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 25738<br>(20110, 32941)  | 21234<br>(17837, 25278)  | 1.21<br>(0.89, 1.65) |
| Male vs Female | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 40290<br>(34397, 47193)  | 41415<br>(35725, 48012)  | 0.97<br>(0.78, 1.22) |
| Male vs Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 121<br>(93, 157)         | 98<br>(80, 120)          | 1.23<br>(0.89, 1.72) |
| Male vs Female | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 207<br>(158, 272)        | 178<br>(145, 218)        | 1.17<br>(0.83, 1.64) |
| Male vs Female | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 43301<br>(30763, 60949)  | 32117<br>(22658, 45526)  | 1.35<br>(0.81, 2.24) |
| Male vs Female | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 83762<br>(65541, 107048) | 77611<br>(57216, 105276) | 1.08<br>(0.72, 1.62) |
| Male vs Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 223<br>(158, 315)        | 165<br>(113, 242)        | 1.35<br>(0.80, 2.27) |
| Male vs Female | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 449<br>(303, 666)        | 401<br>(268, 602)        | 1.12<br>(0.64, 1.97) |
| Male vs Female | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)           | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)           | 10<br>(10, 10)           | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)              | 5<br>(5, 5)              | 1.02<br>(0.98, 1.06) |
| Male vs Female | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)              | 5<br>(5, 5)              | 0.97<br>(0.93, 1.02) |
| Male vs Female | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 12838<br>(8743, 18852)   | 12876<br>(9489, 17472)   | 1.00<br>(0.60, 1.65) |
| Male vs Female | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 16359<br>(12044, 22219)  | 19468<br>(15496, 24459)  | 0.84<br>(0.56, 1.26) |
| Male vs Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 43<br>(29, 63)           | 58<br>(42, 81)           | 0.73<br>(0.44, 1.23) |

(continued)

| Group 1 vs 2   | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|----------------|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| Male vs Female | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 100<br>(68, 146)              | 152<br>(105, 219)             | 0.66<br>(0.38, 1.14) |
| Male vs Female | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 1032572<br>(803692, 1326633)  | 924524<br>(750510, 1138886)   | 1.12<br>(0.80, 1.56) |
| Male vs Female | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 2448348<br>(1992531, 3008439) | 1878895<br>(1586011, 2225864) | 1.30<br>(0.99, 1.71) |
| Male vs Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 1983<br>(1427, 2754)          | 1243<br>(972, 1588)           | 1.60<br>(1.05, 2.41) |
| Male vs Female | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 2322<br>(1694, 3181)          | 2160<br>(1643, 2840)          | 1.07<br>(0.70, 1.64) |
| Male vs Female | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 2628794<br>(1842173, 3751308) | 2106655<br>(1490680, 2977161) | 1.25<br>(0.76, 2.06) |
| Male vs Female | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5518909<br>(4222583, 7213204) | 5236885<br>(3880756, 7066912) | 1.05<br>(0.70, 1.59) |
| Male vs Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5567<br>(3235, 9581)          | 5754<br>(3356, 9868)          | 0.97<br>(0.45, 2.07) |
| Male vs Female | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 9590<br>(6259, 14696)         | 6872<br>(4174, 11314)         | 1.40<br>(0.73, 2.67) |
| Male vs Female | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.01<br>(0.99, 1.03) |
| Male vs Female | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)                | 10<br>(10, 10)                | 1.00<br>(1.00, 1.00) |
| Male vs Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 1.00<br>(0.98, 1.02) |
| Male vs Female | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                   | 5<br>(5, 5)                   | 0.99<br>(0.97, 1.01) |
| Male vs Female | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 361345<br>(243436, 536364)    | 396863<br>(289955, 543189)    | 0.91<br>(0.54, 1.55) |
| Male vs Female | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 578439<br>(406742, 822616)    | 748414<br>(540245, 1036794)   | 0.77<br>(0.47, 1.28) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC    | Group 2 GMT/GMC      | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|--------------------|----------------------|----------------------|
| Male vs Female                               | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 606<br>(358, 1023) | 541<br>(355, 825)    | 1.12<br>(0.56, 2.23) |
| Male vs Female                               | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 930<br>(554, 1559) | 1659<br>(1064, 2588) | 0.56<br>(0.28, 1.12) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)     | 10<br>(10, 10)       | 0.99<br>(0.99, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)     | 10<br>(10, 10)       | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)        | 5<br>(5, 5)          | 0.99<br>(0.98, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 6)        | 5<br>(5, 5)          | 1.05<br>(0.97, 1.14) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)     | 10<br>(10, 10)       | 1.00<br>(1.00, 1.00) |

(continued)

| Group 1 vs 2                                 | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|--|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 1 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.98, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.01<br>(0.96, 1.06) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 0.99<br>(0.98, 1.01) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 0.99<br>(0.98, 1.01) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC         | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------|-------------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)             | 5<br>(5, 5)             | 0.97<br>(0.93, 1.02) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)          | 10<br>(10, 10)          | 1.00<br>(0.99, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)          | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID50   | 6<br>(5, 7)             | 5<br>(5, 5)             | 1.10<br>(0.90, 1.34) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)             | 5<br>(5, 5)             | 0.99<br>(0.97, 1.01) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 22266<br>(15847, 31284) | 23020<br>(19425, 27280) | 0.97<br>(0.66, 1.42) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC          | Group 2 GMT/GMC          | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|--------------------------|--------------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 41773<br>(31562, 55289)  | 39694<br>(35055, 44946)  | 1.05<br>(0.77, 1.44) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 101<br>(67, 152)         | 104<br>(86, 125)         | 0.97<br>(0.62, 1.52) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 190<br>(126, 284)        | 191<br>(158, 230)        | 0.99<br>(0.63, 1.55) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 57339<br>(30559, 107588) | 35344<br>(26390, 47337)  | 1.62<br>(0.82, 3.20) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 90332<br>(50343, 162084) | 83383<br>(65546, 106075) | 1.08<br>(0.58, 2.02) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 254<br>(155, 417)        | 183<br>(133, 251)        | 1.39<br>(0.78, 2.48) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC         | Group 2 GMT/GMC        | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------|------------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 498<br>(236, 1049)      | 411<br>(294, 575)      | 1.21<br>(0.55, 2.69) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)          | 10<br>(10, 10)         | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)          | 10<br>(10, 10)         | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)             | 5<br>(5, 5)            | 1.00<br>(0.97, 1.04) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 6<br>(4, 8)             | 5<br>(5, 5)            | 1.21<br>(0.89, 1.64) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 34815<br>(16110, 75239) | 11608<br>(9046, 14896) | 3.00<br>(1.35, 6.66) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 26708<br>(12585, 56680)       | 18056<br>(14910, 21865)       | 1.48<br>(0.70, 3.14) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 118<br>(42, 327)              | 48<br>(37, 63)                | 2.45<br>(0.88, 6.82) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 351<br>(151, 818)             | 123<br>(92, 165)              | 2.85<br>(1.19, 6.80) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 1087406<br>(737091, 1604213)  | 987977<br>(822264, 1187086)   | 1.10<br>(0.71, 1.70) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 2082654<br>(1564176, 2772993) | 2063432<br>(1775937, 2397468) | 1.01<br>(0.73, 1.40) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 1727<br>(1013, 2946)          | 1500<br>(1191, 1888)          | 1.15<br>(0.64, 2.06) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC                | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|--------------------------------|-------------------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 2444<br>(1373, 4350)           | 2270<br>(1788, 2883)          | 1.08<br>(0.58, 2.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 2735111<br>(1368395, 5466868)  | 2315554<br>(1731123, 3097290) | 1.18<br>(0.56, 2.47) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 7578287<br>(5040721, 11393296) | 5301268<br>(4150604, 6770929) | 1.43<br>(0.90, 2.28) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7727<br>(2908, 20532)          | 5224<br>(3348, 8151)          | 1.48<br>(0.52, 4.24) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 10208<br>(4492, 23195)         | 7937<br>(5300, 11886)         | 1.29<br>(0.53, 3.14) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)                 | 10<br>(10, 10)                | 0.99<br>(0.98, 1.00) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC              | Group 2 GMT/GMC            | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|------------------------------|----------------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)               | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                  | 5<br>(5, 5)                | 0.99<br>(0.98, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                  | 5<br>(5, 5)                | 0.99<br>(0.97, 1.00) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 747435<br>(391924, 1425424)  | 381696<br>(293138, 497006) | 1.96<br>(0.99, 3.89) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 1403460<br>(609038, 3234119) | 648311<br>(505732, 831086) | 2.16<br>(0.93, 5.02) |
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 1522<br>(466, 4976)          | 555<br>(395, 782)          | 2.74<br>(0.84, 8.96) |

(continued)

| Group 1 vs 2                                 | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC      | Group 2 GMT/GMC     | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|----------------------|---------------------|----------------------|
| Hispanic or Latino vs Not Hispanic or Latino | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80   | 3063<br>(1057, 8877) | 1324<br>(921, 1904) | 2.31<br>(0.78, 6.86) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)       | 10<br>(10, 10)      | 1.02<br>(1.00, 1.04) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)       | 10<br>(10, 10)      | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)          | 5<br>(5, 5)         | 1.00<br>(0.99, 1.01) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)          | 5<br>(5, 5)         | 1.03<br>(1.00, 1.06) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)       | 10<br>(10, 10)      | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)       | 10<br>(10, 10)      | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic   | Day 1  | Vaccine | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 5)          | 5<br>(5, 5)         | 1.00<br>(0.98, 1.02) |

(continued)

| Group 1 vs 2                               | Visit | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC | Group 2 GMT/GMC | Ratios of GMT/GMC    |
|--|-------|---------|---------------------|------------------------|-----------------|-----------------|----------------------|
| Communities of Color vs White Non-Hispanic | Day 1 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 6)     | 5<br>(5, 5)     | 1.05<br>(0.99, 1.11) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 0.99<br>(0.96, 1.01) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)     | 5<br>(5, 5)     | 1.02<br>(0.99, 1.05) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)     | 5<br>(5, 6)     | 0.97<br>(0.90, 1.05) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(0.99, 1.00) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)  | 10<br>(10, 10)  | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic | Day 1 | Placebo | Positive            | Pseudovirus-nAb ID50   | 5<br>(5, 6)     | 5<br>(5, 5)     | 1.03<br>(0.97, 1.10) |

(continued)

| Group 1 vs 2                               | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC          | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|--------------------------|-------------------------|----------------------|
| Communities of Color vs White Non-Hispanic | Day 1  | Placebo | Positive            | Pseudovirus-nAb ID80   | 5<br>(5, 5)              | 5<br>(5, 5)             | 1.01<br>(1.00, 1.02) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 23355<br>(19242, 28347)  | 23438<br>(18669, 29425) | 1.00<br>(0.74, 1.34) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 40216<br>(34320, 47124)  | 40376<br>(34349, 47460) | 1.00<br>(0.79, 1.25) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 99<br>(79, 124)          | 115<br>(90, 147)        | 0.86<br>(0.62, 1.20) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 208<br>(163, 266)        | 188<br>(146, 241)       | 1.11<br>(0.78, 1.57) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 44605<br>(32113, 61955)  | 30985<br>(21434, 44793) | 1.44<br>(0.88, 2.36) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 90964<br>(70627, 117156) | 72481<br>(53061, 99008) | 1.25<br>(0.84, 1.88) |
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 238<br>(171, 332)        | 148<br>(104, 211)       | 1.61<br>(0.99, 2.62) |

(continued)

| Group 1 vs 2                               | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC         | Group 2 GMT/GMC         | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------|-------------------------|----------------------|
| Communities of Color vs White Non-Hispanic | Day 29 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 545<br>(371, 802)       | 348<br>(226, 535)       | 1.57<br>(0.88, 2.80) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)          | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)          | 10<br>(10, 10)          | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)             | 5<br>(5, 5)             | 1.00<br>(0.99, 1.01) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 6)             | 5<br>(5, 5)             | 1.06<br>(0.96, 1.16) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 17596<br>(12331, 25109) | 10931<br>(7560, 15804)  | 1.61<br>(0.96, 2.69) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 18884<br>(13334, 26743) | 18868<br>(14808, 24043) | 1.00<br>(0.65, 1.53) |
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID50   | 54<br>(34, 84)          | 52<br>(37, 74)          | 1.03<br>(0.58, 1.81) |

(continued)

| Group 1 vs 2                               | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC               | Group 2 GMT/GMC               | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-------------------------------|-------------------------------|----------------------|
| Communities of Color vs White Non-Hispanic | Day 29 | Placebo | Positive            | Pseudovirus-nAb ID80   | 178<br>(110, 288)             | 107<br>(76, 150)              | 1.67<br>(0.92, 3.01) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti RBD IgG (IU/ml)   | 977894<br>(775549, 1233031)   | 1035293<br>(809568, 1323956)  | 0.94<br>(0.67, 1.32) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Negative            | Anti Spike IgG (IU/ml) | 2083276<br>(1732503, 2505069) | 2145772<br>(1770774, 2600184) | 0.97<br>(0.74, 1.27) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID50   | 1903<br>(1416, 2557)          | 1376<br>(1010, 1874)          | 1.38<br>(0.90, 2.12) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Negative            | Pseudovirus-nAb ID80   | 2744<br>(2021, 3725)          | 2011<br>(1465, 2761)          | 1.36<br>(0.88, 2.12) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti RBD IgG (IU/ml)   | 3146770<br>(2273084, 4356267) | 1943813<br>(1349835, 2799166) | 1.62<br>(0.99, 2.64) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Positive            | Anti Spike IgG (IU/ml) | 5991417<br>(4527248, 7929117) | 4608987<br>(3338577, 6362819) | 1.30<br>(0.85, 1.99) |
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID50   | 7086<br>(4582, 10956)         | 4550<br>(2471, 8378)          | 1.56<br>(0.74, 3.30) |

(continued)

| Group 1 vs 2                               | Visit  | Arm     | Baseline SARS-CoV-2 | Marker                 | Group 1 GMT/GMC             | Group 2 GMT/GMC            | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|------------------------|-----------------------------|----------------------------|----------------------|
| Communities of Color vs White Non-Hispanic | Day 57 | Vaccine | Positive            | Pseudovirus-nAb ID80   | 8885<br>(5903, 13374)       | 7994<br>(4646, 13757)      | 1.11<br>(0.56, 2.19) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Negative            | Anti RBD IgG (IU/ml)   | 10<br>(10, 10)              | 10<br>(10, 10)             | 0.99<br>(0.98, 1.01) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Negative            | Anti Spike IgG (IU/ml) | 10<br>(10, 10)              | 10<br>(10, 10)             | 1.00<br>(1.00, 1.00) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID50   | 5<br>(5, 5)                 | 5<br>(5, 5)                | 1.01<br>(0.99, 1.03) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Negative            | Pseudovirus-nAb ID80   | 5<br>(5, 5)                 | 5<br>(5, 5)                | 0.98<br>(0.96, 1.01) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Positive            | Anti RBD IgG (IU/ml)   | 397884<br>(256621, 616908)  | 393045<br>(287516, 537306) | 1.01<br>(0.59, 1.73) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Positive            | Anti Spike IgG (IU/ml) | 734879<br>(489927, 1102301) | 674526<br>(485396, 937351) | 1.09<br>(0.65, 1.84) |
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID50   | 684<br>(382, 1222)          | 575<br>(371, 892)          | 1.19<br>(0.57, 2.46) |

(continued)

| Group 1 vs 2                               | Visit  | Arm     | Baseline SARS-CoV-2 | Marker               | Group 1 GMT/GMC     | Group 2 GMT/GMC     | Ratios of GMT/GMC    |
|--|--------|---------|---------------------|----------------------|---------------------|---------------------|----------------------|
| Communities of Color vs White Non-Hispanic | Day 57 | Placebo | Positive            | Pseudovirus-nAb ID80 | 1409<br>(809, 2454) | 1478<br>(953, 2292) | 0.95<br>(0.47, 1.93) |

Table 8a. Differences in the responder rates, 2FRs, 4FRs between the vaccine arm and the placebo arm by All participants

| Group | Visit  | Baseline SARS-CoV-2 | Marker                 | Comparison         | Responder               | % 2-Fold Rise           | % 4-Fold Rise           |
|-------|--------|---------------------|------------------------|--------------------|-------------------------|-------------------------|-------------------------|
|       | Day 29 | Negative            | Anti RBD IgG (IU/ml)   | Vaccine vs Placebo | 100%<br>(100%, 100%)    | 100%<br>(100%, 100%)    | 100%<br>(100%, 100%)    |
|       | Day 29 | Negative            | Anti Spike IgG (IU/ml) | Vaccine vs Placebo | 100%<br>(100%, 100%)    | 100%<br>(100%, 100%)    | 100%<br>(100%, 100%)    |
|       | Day 29 | Negative            | Pseudovirus-nAb ID50   | Vaccine vs Placebo | 87.1%<br>(82.7%, 90%)   | 87.5%<br>(83.2%, 90.4%) | 81.8%<br>(77.9%, 85.1%) |
|       | Day 29 | Negative            | Pseudovirus-nAb ID80   | Vaccine vs Placebo | 93%<br>(87.4%, 95.1%)   | 93%<br>(87.4%, 95.1%)   | 87.3%<br>(80.6%, 90.2%) |
|       | Day 29 | Positive            | Anti RBD IgG (IU/ml)   | Vaccine vs Placebo | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          |
|       | Day 29 | Positive            | Anti Spike IgG (IU/ml) | Vaccine vs Placebo | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          |
|       | Day 29 | Positive            | Pseudovirus-nAb ID50   | Vaccine vs Placebo | 12.6%<br>(5.3%, 20.1%)  | 12.3%<br>(5.1%, 19.9%)  | 23.2%<br>(13.3%, 32.3%) |
|       | Day 29 | Positive            | Pseudovirus-nAb ID80   | Vaccine vs Placebo | 5.5%<br>(-0.1%, 11.6%)  | 5.4%<br>(-0.4%, 11.5%)  | 9.9%<br>(3.5%, 17%)     |
|       | Day 57 | Negative            | Anti RBD IgG (IU/ml)   | Vaccine vs Placebo | 99.4%<br>(96%, 99.9%)   | 99.4%<br>(96%, 99.9%)   | 100%<br>(100%, 100%)    |
|       | Day 57 | Negative            | Anti Spike IgG (IU/ml) | Vaccine vs Placebo | 100%<br>(100%, 100%)    | 100%<br>(100%, 100%)    | 100%<br>(100%, 100%)    |
|       | Day 57 | Negative            | Pseudovirus-nAb ID50   | Vaccine vs Placebo | 98%<br>(95.7%, 98.8%)   | 98%<br>(95.7%, 98.8%)   | 97.4%<br>(95.6%, 98.5%) |
|       | Day 57 | Negative            | Pseudovirus-nAb ID80   | Vaccine vs Placebo | 98.2%<br>(94.7%, 99.1%) | 98.2%<br>(94.7%, 99.1%) | 98.3%<br>(96.4%, 99.2%) |
|       | Day 57 | Positive            | Anti RBD IgG (IU/ml)   | Vaccine vs Placebo | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          |
|       | Day 57 | Positive            | Anti Spike IgG (IU/ml) | Vaccine vs Placebo | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          | 0%<br>(0%, 0%)          |
|       | Day 57 | Positive            | Pseudovirus-nAb ID50   | Vaccine vs Placebo | 4.1%<br>(1.7%, 9.4%)    | 4.1%<br>(1.7%, 9.4%)    | 7.7%<br>(4.1%, 14%)     |

(continued)

| Group | Visit  | Baseline<br>SARS-CoV-2 | Marker               | Comparison         | Responder          | % 2-Fold Rise      | % 4-Fold Rise        |
|-------|--------|------------------------|----------------------|--------------------|--------------------|--------------------|----------------------|
|       | Day 57 | Positive               | Pseudovirus-nAb ID80 | Vaccine vs Placebo | 2%<br>(0.6%, 6.8%) | 2%<br>(0.6%, 6.8%) | 2.5%<br>(0.9%, 6.8%) |

Table 9. Antibody levels in the baseline SARS-CoV-2 negative per-protocol cohort (vaccine vs. placebo)

| Visit  | Marker                 | Baseline SARS-CoV-2 Negative |  |                               |     |                                    |                |                         |                                     |
|--------|------------------------|------------------------------|--|-------------------------------|-----|------------------------------------|----------------|-------------------------|-------------------------------------|
|        |                        | Vaccine                      |  |                               |     | Placebo                            |                |                         |                                     |
|        |                        | N                            | Resp rate                                | GMT/GMC                       | N   | Resp rate                          | GMT/GMC        | Resp Rate Difference    | GMTR/GMCR                           |
| Day 29 | Anti RBD IgG (IU/ml)   | 914                          | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 22926<br>(19863, 26460)       | 163 | 0/13359 = 0.0%<br>(0.0%, 0.0%)     | 10<br>(10, 10) | 100%<br>(100%, 100%)    | 2292.58<br>(1986.35, 2646.03)       |
| Day 29 | Anti Spike IgG (IU/ml) | 914                          | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 40963<br>(36741, 45671)       | 163 | 0/13359 = 0.0%<br>(0.0%, 0.0%)     | 10<br>(10, 10) | 100%<br>(100%, 100%)    | 4096.31<br>(3674.06, 4567.08)       |
| Day 29 | Pseudovirus-nAb ID50   | 914                          | 11733.1/13295 = 88.3%<br>(84.7%, 91.0%)  | 106<br>(91, 125)              | 163 | 149.5/13359 = 1.1%<br>(0.3%, 3.8%) | 5<br>(5, 5)    | 87.1%<br>(82.7%, 90%)   | 21.04<br>(17.92, 24.71)             |
| Day 29 | Pseudovirus-nAb ID80   | 914                          | 12521.7/13295 = 94.2%<br>(91.6%, 96.0%)  | 189<br>(161, 222)             | 163 | 160.7/13359 = 1.2%<br>(0.2%, 6.1%) | 5<br>(5, 5)    | 93%<br>(87.4%, 95.1%)   | 37.14<br>(31.48, 43.81)             |
| Day 57 | Anti RBD IgG (IU/ml)   | 914                          | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 966160<br>(823437, 1133621)   | 163 | 76.3/13359 = 0.6%<br>(0.1%, 4.0%)  | 10<br>(10, 10) | 99.4%<br>(96%, 99.9%)   | 96216.76<br>(81986.55, 112916.89)   |
| Day 57 | Anti Spike IgG (IU/ml) | 914                          | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 2087965<br>(1831068, 2380904) | 163 | 0/13359 = 0.0%<br>(0.0%, 0.0%)     | 10<br>(10, 10) | 100%<br>(100%, 100%)    | 208796.50<br>(183106.81, 238090.43) |
| Day 57 | Pseudovirus-nAb ID50   | 914                          | 13159.4/13295 = 99.0%<br>(98.0%, 99.5%)  | 1497<br>(1228, 1825)          | 163 | 131.9/13359 = 1.0%<br>(0.3%, 3.0%) | 5<br>(5, 5)    | 98%<br>(95.7%, 98.8%)   | 297.04<br>(243.64, 362.15)          |
| Day 57 | Pseudovirus-nAb ID80   | 914                          | 13174.8/13295 = 99.1%<br>(97.1%, 99.7%)  | 2223<br>(1809, 2733)          | 163 | 120.7/13359 = 0.9%<br>(0.2%, 3.8%) | 5<br>(5, 5)    | 98.2%<br>(94.7%, 99.1%) | 440.71<br>(358.41, 541.91)          |

Table 10. Antibody levels in the baseline SARS-CoV-2 positive per-protocol cohort (vaccine vs. placebo)

| Visit  | Marker                 | Baseline SARS-CoV-2 Positive                  |                               |   |                            |                        |                        |            |  |
|--------|------------------------|---|-------------------------------|---|----------------------------|------------------------|------------------------|------------|--|
|        |                        | Vaccine                                       |                               |   | Placebo                    |                        |                        | Comparison |  |
| N      | Resp rate              | GMT/GMC                                       | N                             | Resp rate                                     | GMT/GMC                    | Resp Rate Difference   | GMTR/GMCR              |            |  |
| Day 29 | Anti RBD IgG (IU/ml)   | 274<br>1432/1432 = 100.0%<br>(100.0%, 100.0%) | 36133<br>(28182, 46328)       | 270<br>1357/1357 = 100.0%<br>(100.0%, 100.0%) | 12861<br>(10150, 16296)    | 0%<br>(0%, 0%)         | 2.81<br>(1.99, 3.96)   |            |  |
| Day 29 | Anti Spike IgG (IU/ml) | 274<br>1432/1432 = 100.0%<br>(100.0%, 100.0%) | 79981<br>(65041, 98352)       | 270<br>1357/1357 = 100.0%<br>(100.0%, 100.0%) | 18191<br>(15159, 21829)    | 0%<br>(0%, 0%)         | 4.40<br>(3.34, 5.79)   |            |  |
| Day 29 | Pseudovirus-nAb ID50   | 274<br>1383.1/1432 = 96.6%<br>(91.6%, 98.7%)  | 186<br>(142, 243)             | 270<br>1139.8/1357 = 84.0%<br>(76.8%, 89.3%)  | 51<br>(40, 66)             | 12.6%<br>(5.3%, 20.1%) | 3.61<br>(2.50, 5.22)   |            |  |
| Day 29 | Pseudovirus-nAb ID80   | 274<br>1407.2/1432 = 98.3%<br>(93.8%, 99.5%)  | 420<br>(314, 560)             | 270<br>1258.5/1357 = 92.7%<br>(86.8%, 96.1%)  | 129<br>(98, 169)           | 5.5%<br>(-0.1%, 11.6%) | 3.25<br>(2.19, 4.83)   |            |  |
| Day 57 | Anti RBD IgG (IU/ml)   | 274<br>1432/1432 = 100.0%<br>(100.0%, 100.0%) | 2298869<br>(1785648, 2959596) | 270<br>1357/1357 = 100.0%<br>(100.0%, 100.0%) | 382614<br>(299829, 488256) | 0%<br>(0%, 0%)         | 6.01<br>(4.23, 8.54)   |            |  |
| Day 57 | Anti Spike IgG (IU/ml) | 274<br>1432/1432 = 100.0%<br>(100.0%, 100.0%) | 5346334<br>(4339333, 6587023) | 270<br>1357/1357 = 100.0%<br>(100.0%, 100.0%) | 676872<br>(531354, 862241) | 0%<br>(0%, 0%)         | 7.90<br>(5.74, 10.87)  |            |  |
| Day 57 | Pseudovirus-nAb ID50   | 274<br>1432/1432 = 100.0%<br>(100.0%, 100.0%) | 5680<br>(3863, 8351)          | 270<br>1301.8/1357 = 95.9%<br>(90.6%, 98.3%)  | 566<br>(409, 783)          | 4.1%<br>(1.7%, 9.4%)   | 10.04<br>(6.07, 16.62) |            |  |
| Day 57 | Pseudovirus-nAb ID80   | 274<br>1432/1432 = 100.0%<br>(100.0%, 100.0%) | 7837<br>(5545, 11076)         | 270<br>1330.1/1357 = 98.0%<br>(93.2%, 99.4%)  | 1324<br>(937, 1870)        | 2%<br>(0.6%, 6.8%)     | 5.92<br>(3.63, 9.65)   |            |  |

Table 11. Antibody levels in the per-protocol cohort (vaccine recipients)

| Visit  | Marker                 | Vaccine Recipients           |  |                               |     |  |                               |                       |                      |
|--------|------------------------|------------------------------|--|-------------------------------|-----|--|-------------------------------|-----------------------|----------------------|
|        |                        | Baseline SARS-CoV-2 Positive |  |                               |     | Baseline SARS-CoV-2 Negative             |                               |                       | Comparison           |
|        |                        | N                            | Resp rate                              | GMT/GMC                       | N   | Resp rate                                | GMT/GMC                       | Resp Rate Difference  | GMTR/GMCR            |
| Day 29 | Anti RBD IgG (IU/ml)   | 274                          | 1432/1432 = 100.0%<br>(100.0%, 100.0%) | 36133<br>(28182, 46328)       | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 22926<br>(19863, 26460)       | 0%<br>(0%, 0%)        | 1.58<br>(1.18, 2.10) |
| Day 29 | Anti Spike IgG (IU/ml) | 274                          | 1432/1432 = 100.0%<br>(100.0%, 100.0%) | 79981<br>(65041, 98352)       | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 40963<br>(36741, 45671)       | 0%<br>(0%, 0%)        | 1.95<br>(1.55, 2.47) |
| Day 29 | Pseudovirus-nAb ID50   | 274                          | 1383.1/1432 = 96.6%<br>(91.6%, 98.7%)  | 186<br>(142, 243)             | 914 | 11733.1/13295 = 88.3%<br>(84.7%, 91.0%)  | 106<br>(91, 125)              | 8.3%<br>(2.6%, 12.4%) | 1.75<br>(1.28, 2.39) |
| Day 29 | Pseudovirus-nAb ID80   | 274                          | 1407.2/1432 = 98.3%<br>(93.8%, 99.5%)  | 420<br>(314, 560)             | 914 | 12521.7/13295 = 94.2%<br>(91.6%, 96.0%)  | 189<br>(161, 222)             | 4.1%<br>(-0.8%, 7%)   | 2.22<br>(1.59, 3.09) |
| Day 57 | Anti RBD IgG (IU/ml)   | 274                          | 1432/1432 = 100.0%<br>(100.0%, 100.0%) | 2298869<br>(1785648, 2959596) | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 966160<br>(823437, 1133621)   | 0%<br>(0%, 0%)        | 2.38<br>(1.76, 3.21) |
| Day 57 | Anti Spike IgG (IU/ml) | 274                          | 1432/1432 = 100.0%<br>(100.0%, 100.0%) | 5346334<br>(4339333, 6587023) | 914 | 13295/13295 = 100.0%<br>(100.0%, 100.0%) | 2087965<br>(1831068, 2380904) | 0%<br>(0%, 0%)        | 2.56<br>(2.00, 3.28) |
| Day 57 | Pseudovirus-nAb ID50   | 274                          | 1432/1432 = 100.0%<br>(100.0%, 100.0%) | 5680<br>(3863, 8351)          | 914 | 13159.4/13295 = 99.0%<br>(98.0%, 99.5%)  | 1497<br>(1228, 1825)          | 1%<br>(0.5%, 2%)      | 3.79<br>(2.46, 5.85) |
| Day 57 | Pseudovirus-nAb ID80   | 274                          | 1432/1432 = 100.0%<br>(100.0%, 100.0%) | 7837<br>(5545, 11076)         | 914 | 13174.8/13295 = 99.1%<br>(97.1%, 99.7%)  | 2223<br>(1809, 2733)          | 0.9%<br>(0.3%, 2.9%)  | 3.53<br>(2.36, 5.27) |

Table 12. Antibody levels in the per-protocol cohort (placebo recipients)

| Visit  | Marker                 | Placebo Recipients           |  |                            |                              |                                    |                |                         |                                  |
|--------|------------------------|------------------------------|--|----------------------------|------------------------------|------------------------------------|----------------|-------------------------|----------------------------------|
|        |                        | Baseline SARS-CoV-2 Positive |  |                            | Baseline SARS-CoV-2 Negative |                                    |                | Comparison              |                                  |
| N      | Resp rate              | GMT/GMC                      | N                                      | Resp rate                  | GMT/GMC                      | Resp Rate Difference               | GMTR/GMCR      |                         |                                  |
| Day 29 | Anti RBD IgG (IU/ml)   | 270                          | 1357/1357 = 100.0%<br>(100.0%, 100.0%) | 12861<br>(10150, 16296)    | 163                          | 0/13359 = 0.0%<br>(0.0%, 0.0%)     | 10<br>(10, 10) | 100%<br>(100%, 100%)    | 1286.10<br>(1015.03, 1629.57)    |
| Day 29 | Anti Spike IgG (IU/ml) | 270                          | 1357/1357 = 100.0%<br>(100.0%, 100.0%) | 18191<br>(15159, 21829)    | 163                          | 0/13359 = 0.0%<br>(0.0%, 0.0%)     | 10<br>(10, 10) | 100%<br>(100%, 100%)    | 1819.07<br>(1515.87, 2182.92)    |
| Day 29 | Pseudovirus-nAb ID50   | 270                          | 1139.8/1357 = 84.0%<br>(76.8%, 89.3%)  | 51<br>(40, 66)             | 163                          | 149.5/13359 = 1.1%<br>(0.3%, 3.8%) | 5<br>(5, 5)    | 82.9%<br>(75.2%, 88.2%) | 10.18<br>(7.90, 13.11)           |
| Day 29 | Pseudovirus-nAb ID80   | 270                          | 1258.5/1357 = 92.7%<br>(86.8%, 96.1%)  | 129<br>(98, 169)           | 163                          | 160.7/13359 = 1.2%<br>(0.2%, 6.1%) | 5<br>(5, 5)    | 91.5%<br>(83.8%, 95.1%) | 25.36<br>(19.29, 33.34)          |
| Day 57 | Anti RBD IgG (IU/ml)   | 270                          | 1357/1357 = 100.0%<br>(100.0%, 100.0%) | 382614<br>(299829, 488256) | 163                          | 76.3/13359 = 0.6%<br>(0.1%, 4.0%)  | 10<br>(10, 10) | 99.4%<br>(96%, 99.9%)   | 38103.25<br>(29854.93, 48630.43) |
| Day 57 | Anti Spike IgG (IU/ml) | 270                          | 1357/1357 = 100.0%<br>(100.0%, 100.0%) | 676872<br>(531354, 862241) | 163                          | 0/13359 = 0.0%<br>(0.0%, 0.0%)     | 10<br>(10, 10) | 100%<br>(100%, 100%)    | 67687.19<br>(53135.41, 86224.15) |
| Day 57 | Pseudovirus-nAb ID50   | 270                          | 1301.8/1357 = 95.9%<br>(90.6%, 98.3%)  | 566<br>(409, 783)          | 163                          | 131.9/13359 = 1.0%<br>(0.3%, 3.0%) | 5<br>(5, 5)    | 94.9%<br>(89.3%, 97.4%) | 112.24<br>(81.10, 155.32)        |
| Day 57 | Pseudovirus-nAb ID80   | 270                          | 1330.1/1357 = 98.0%<br>(93.2%, 99.4%)  | 1324<br>(937, 1870)        | 163                          | 120.7/13359 = 0.9%<br>(0.2%, 3.8%) | 5<br>(5, 5)    | 97.1%<br>(91.5%, 98.7%) | 262.45<br>(185.80, 370.71)       |



## Chapter 2

# Graphical Description of Immunogenicity Data

### 2.1 Pairs plots of antibody markers for overall per-protocol cohort

#### 2.1.1 Baseline SARS-CoV-2 Negative

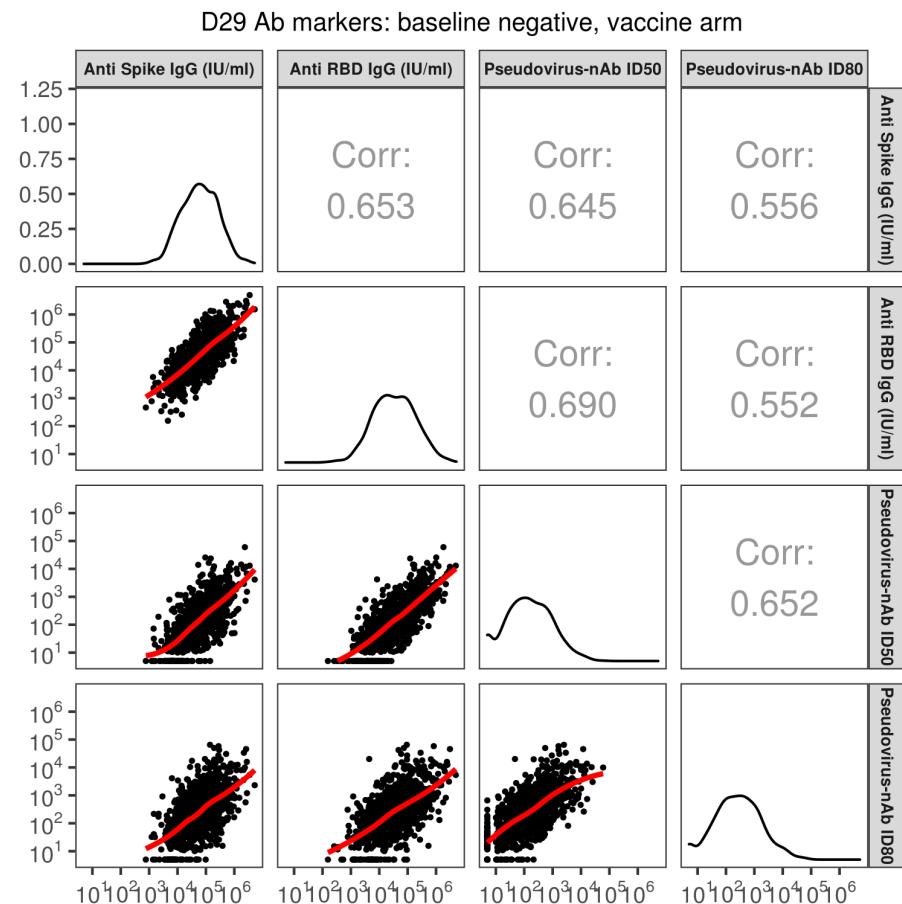


Figure 2.1: Pair plots of D29 Ab markers: baseline negative vaccine arm

D57 Ab markers: baseline negative, vaccine arm

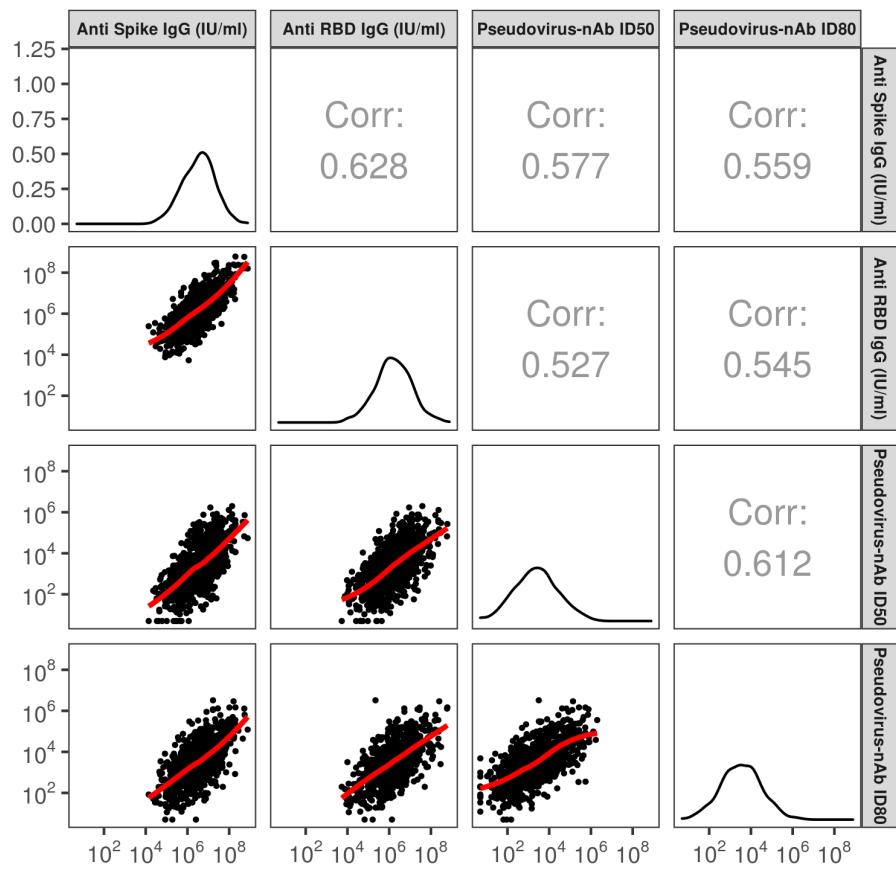


Figure 2.2: Pair plots of D57 Ab markers: baseline negative vaccine arm

D29 Fold-rise over D1 Ab markers: baseline negative, vaccine arm

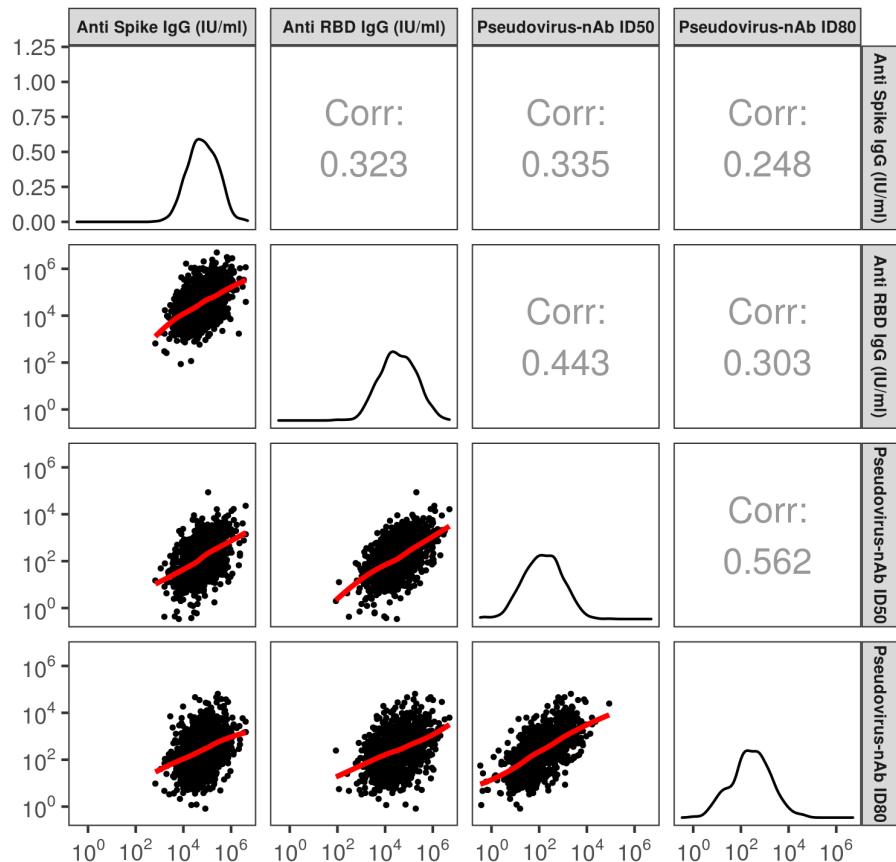


Figure 2.3: Pair plots of D29 fold-rise over D1 Ab markers: baseline negative vaccine arm

D57 Fold-rise over D1 Ab markers: baseline negative, vaccine arm

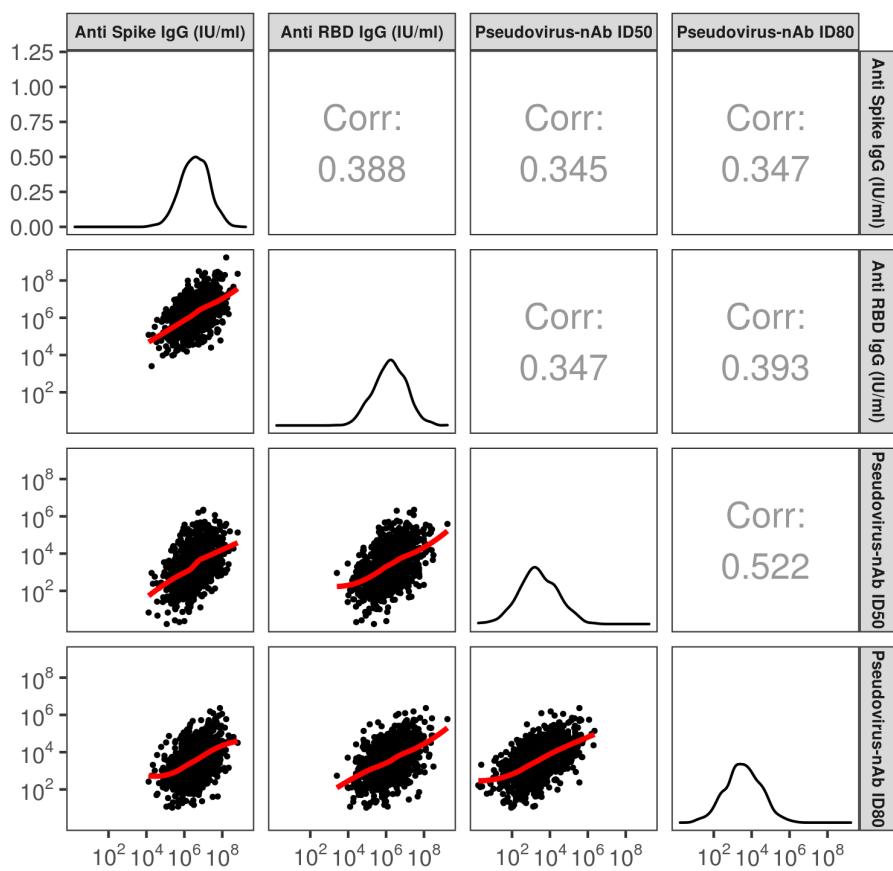


Figure 2.4: Pair plots of D57 fold-rise over D1 Ab markers: baseline negative vaccine arm

Binding Antibody to Spike: baseline negative vaccine arm

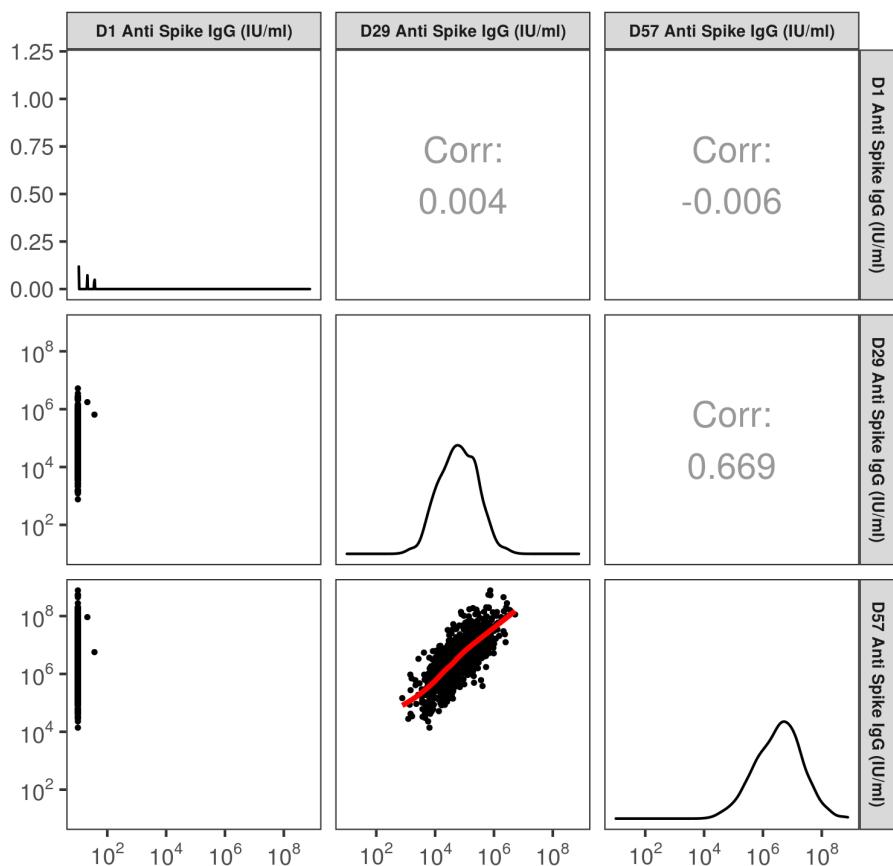


Figure 2.5: Pair plots of D1, D29 and D57 Binding Antibody to Spike: baseline negative vaccine arm

### Binding Antibody to RBD: baseline negative vaccine arm

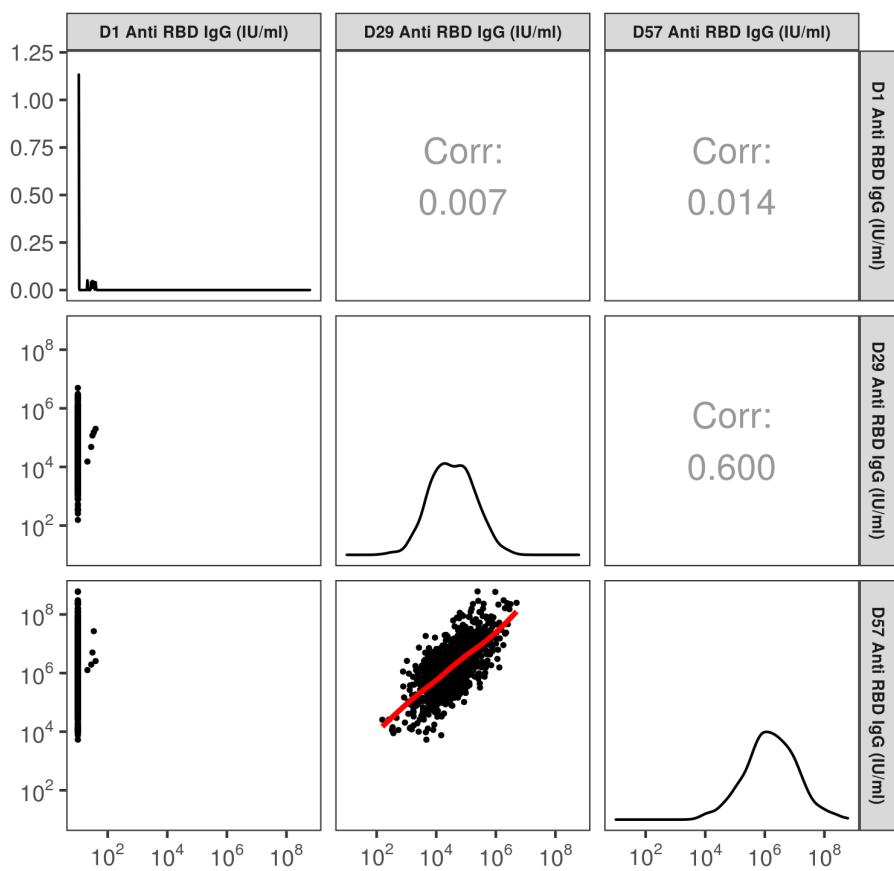


Figure 2.6: Pair plots of D1, D29 and D57 Binding Antibody to RBD: baseline negative vaccine arm

PsV Neutralization 50% Titer: baseline negative vaccine arm

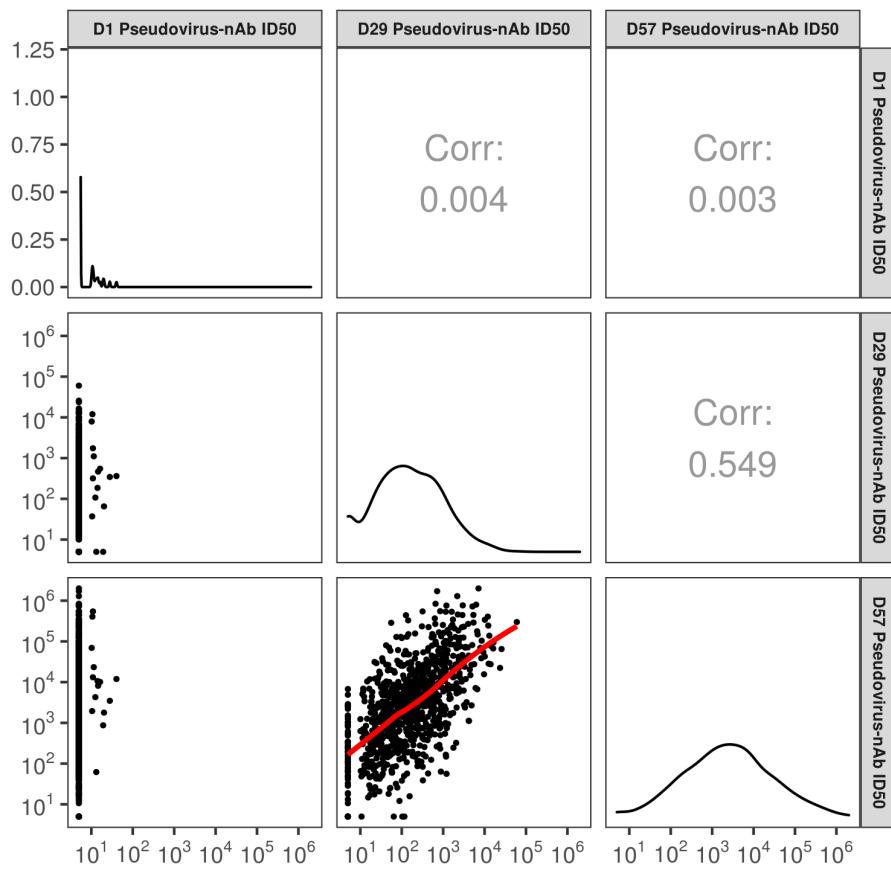


Figure 2.7: Pair plots of D1, D29 and D57 PsV Neutralization 50% Titer: baseline negative vaccine arm

PsV Neutralization 80% Titer: baseline negative vaccine arm

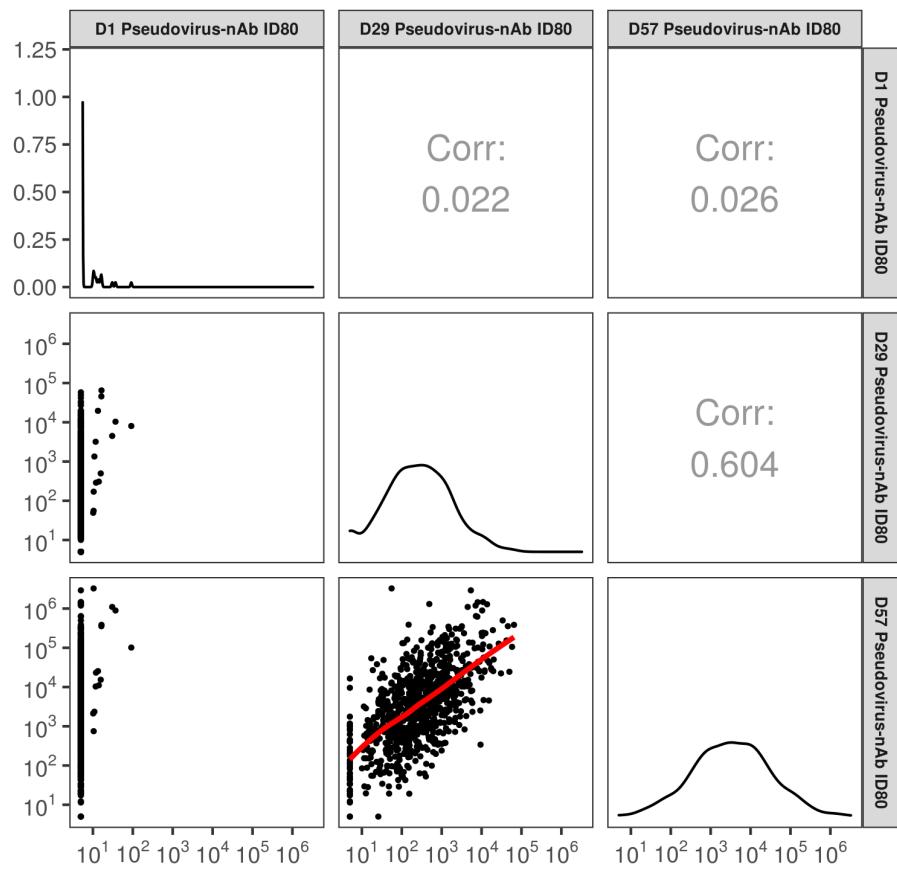


Figure 2.8: Pair plots of D1, D29 and D57 PsV Neutralization 80% Titer: Baseline negative vaccine arm

## 2.1.2 Baseline SARS-CoV-2 Positive

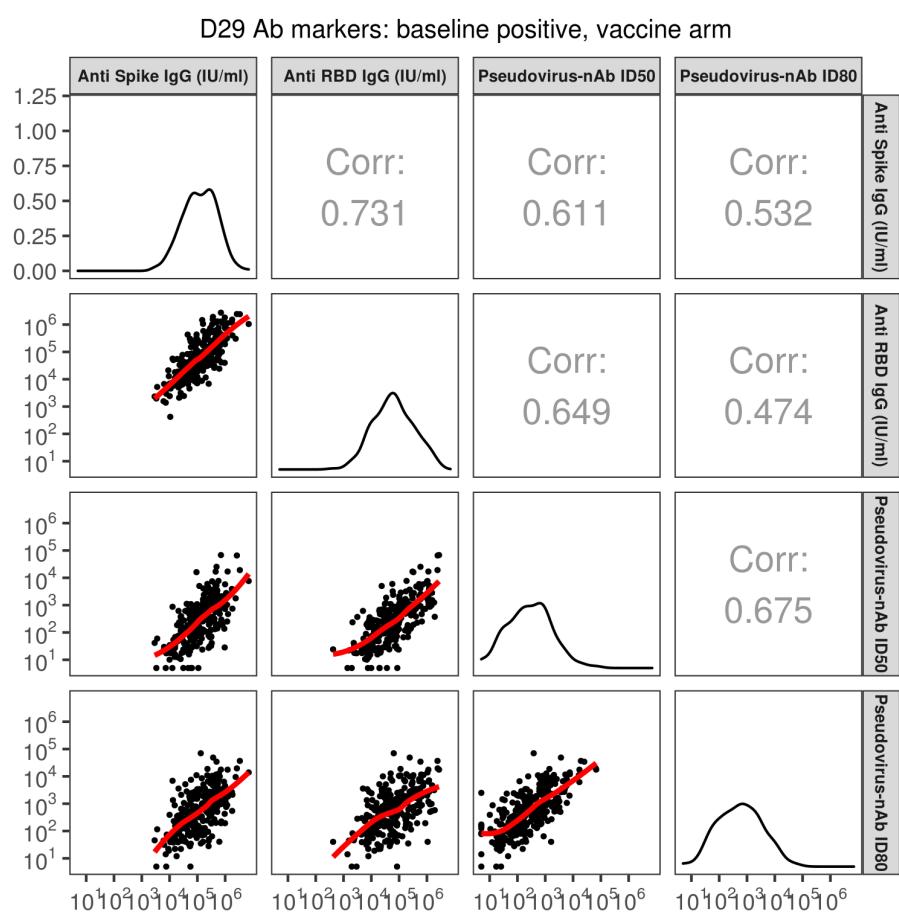


Figure 2.9: Pair plots of D29 Ab markers: baseline positive vaccine arm

### D57 Ab markers: baseline positive, vaccine arm

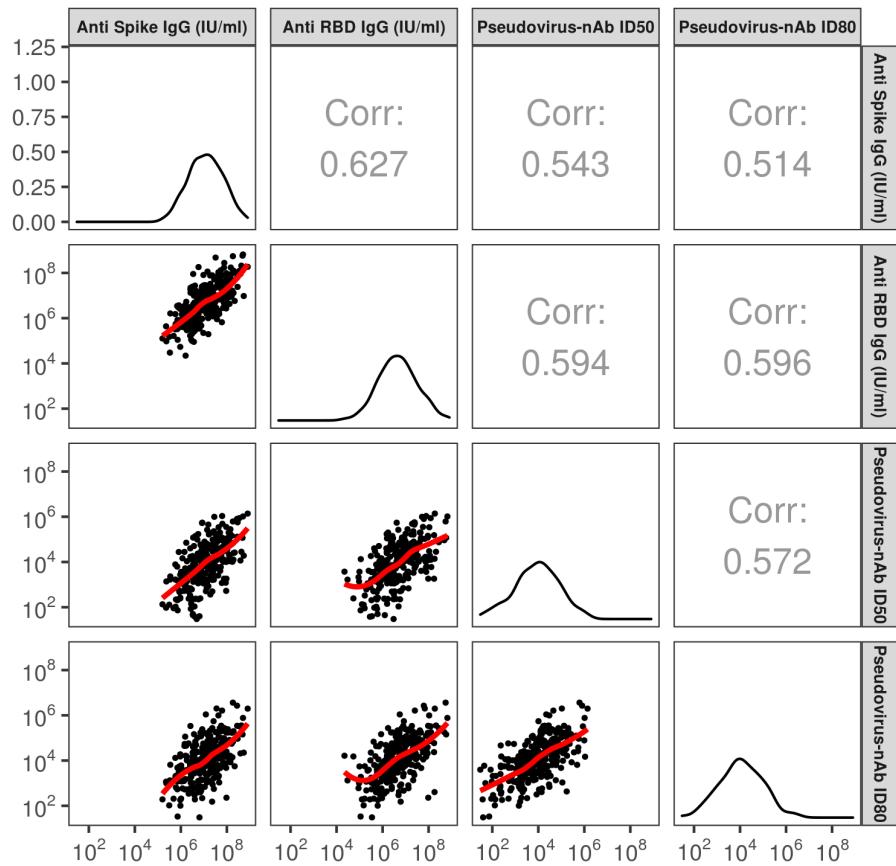


Figure 2.10: Pair plots of D57 Ab markers: baseline positive vaccine arm

### D29 Fold-rise over D1 Ab markers: baseline positive, vaccine arm

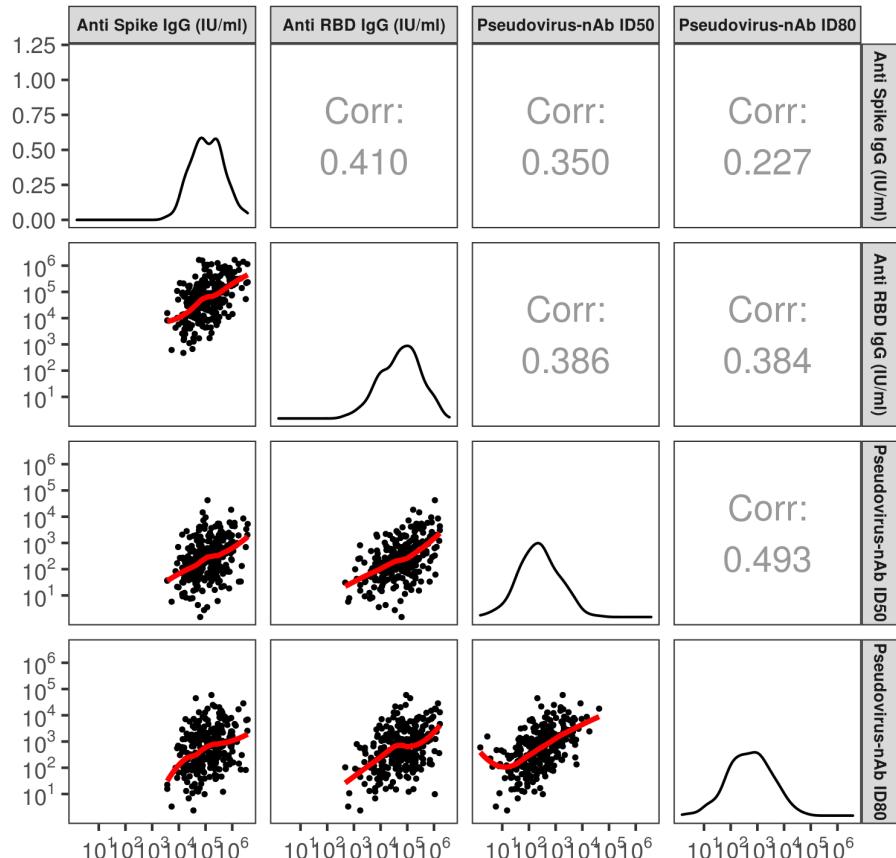


Figure 2.11: Pair plots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm

D57 Fold-rise over D1 Ab markers: baseline positive, vaccine arm

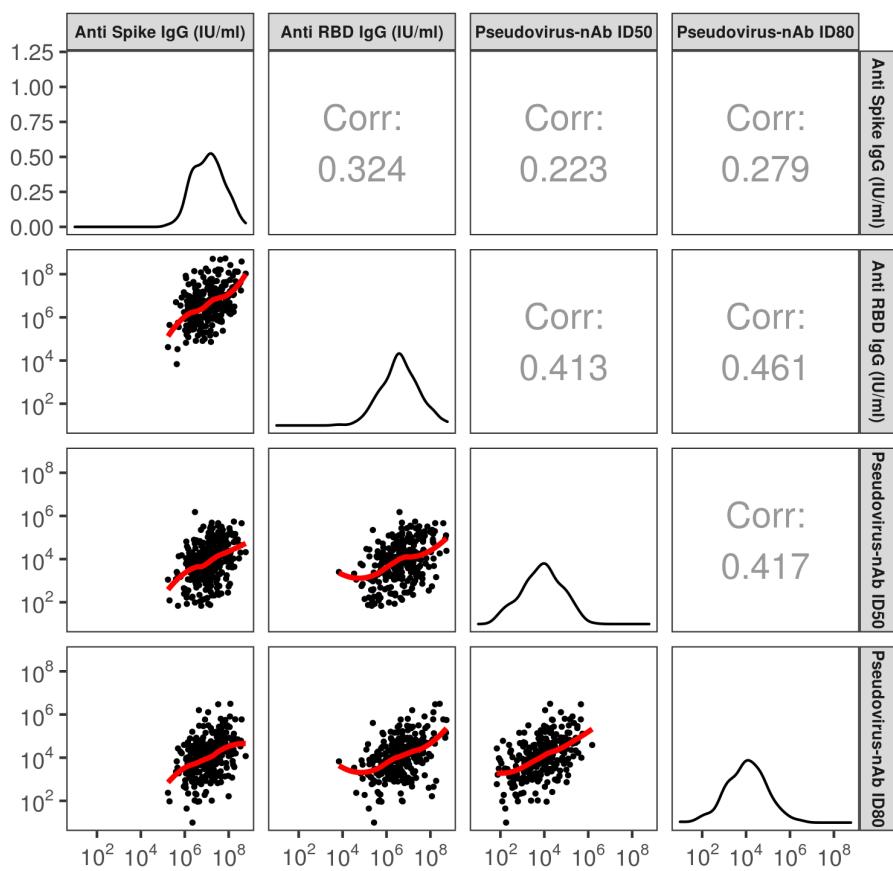


Figure 2.12: Pair plots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm

Binding Antibody to Spike: baseline negative placebo arm

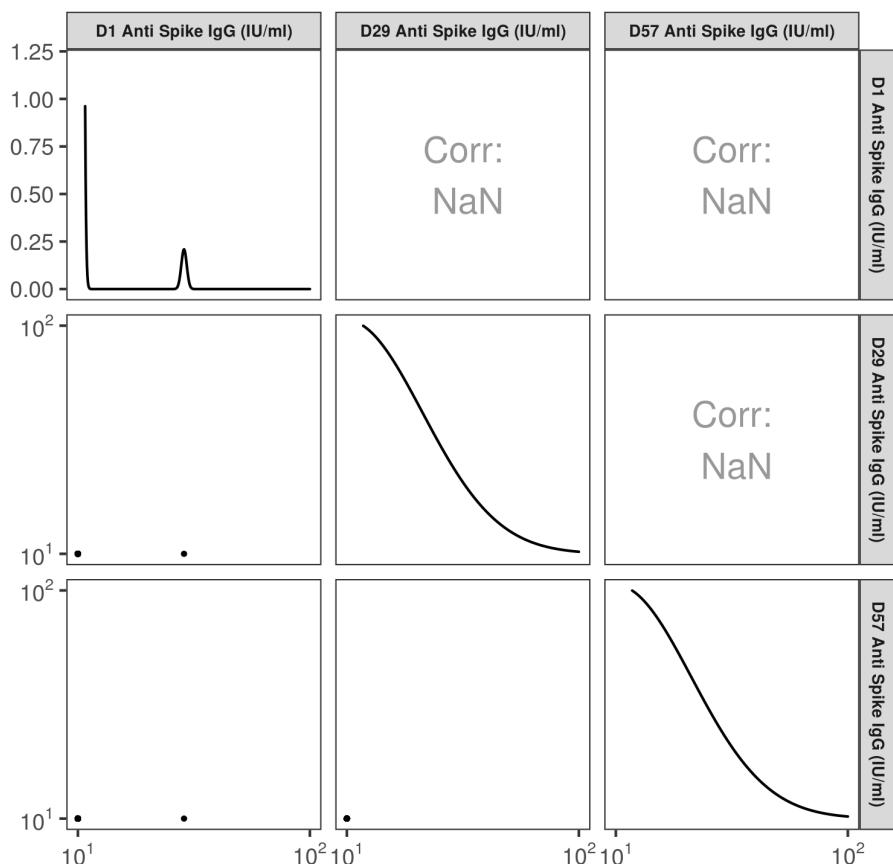


Figure 2.13: Pair plots of D1, D29 and D57 Binding Antibody to Spike: baseline negative placebo arm

### Binding Antibody to RBD: baseline negative placebo arm

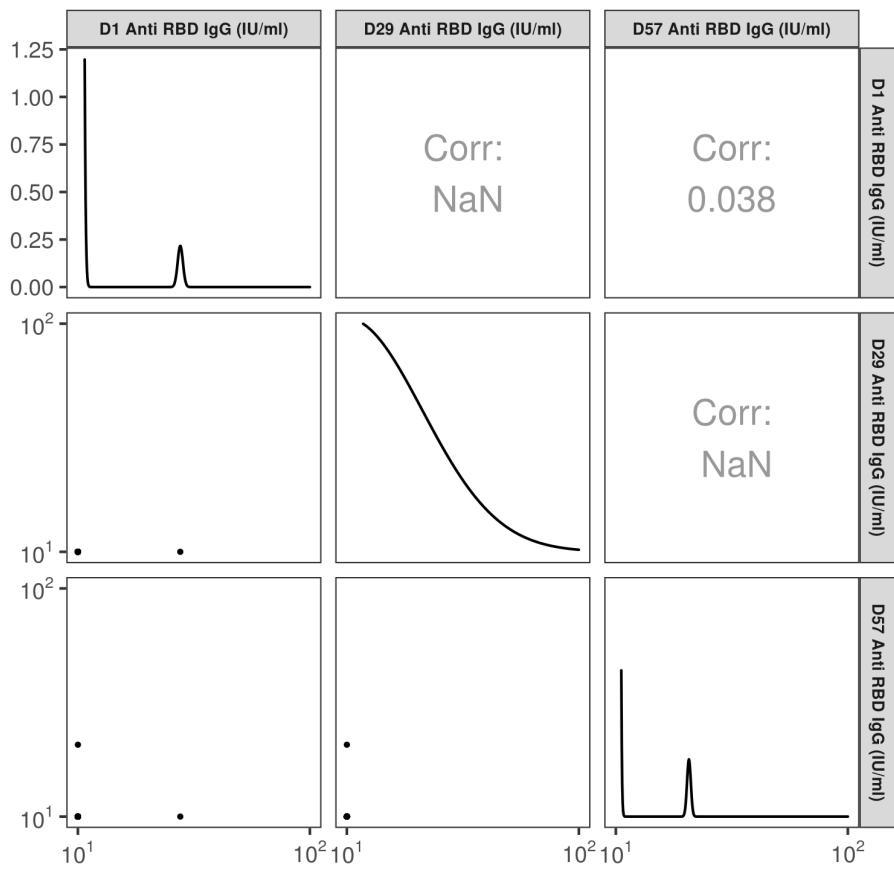


Figure 2.14: Pair plots of D1, D29 and D57 Binding Antibody to RBD: baseline negative placebo arm

PsV Neutralization 50% Titer: baseline negative placebo arm

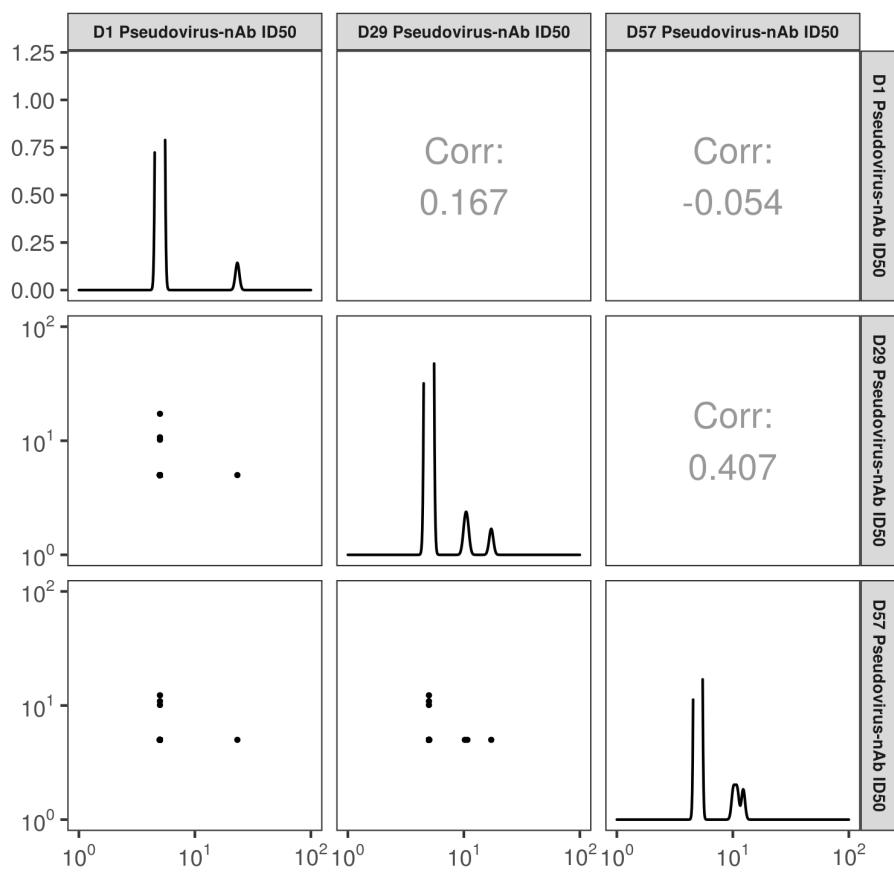


Figure 2.15: Pair plots of D1, D29 and D57 PsV Neutralization 50% Titer: baseline negative placebo arm

PsV Neutralization 80% Titer: baseline negative placebo arm

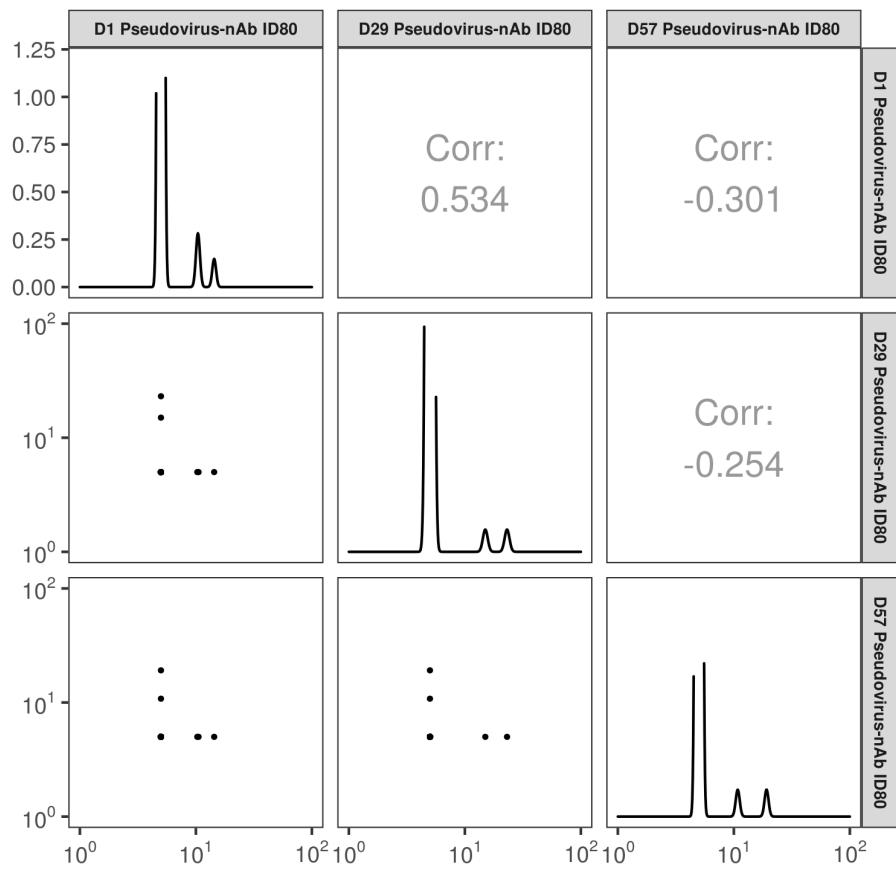


Figure 2.16: Pair plots of D1, D29 and D57 PsV Neutralization 80% Titer: Baseline negative placebo arm

## 2.2 RCDF plots of antibody markers for overall per-protocol cohort

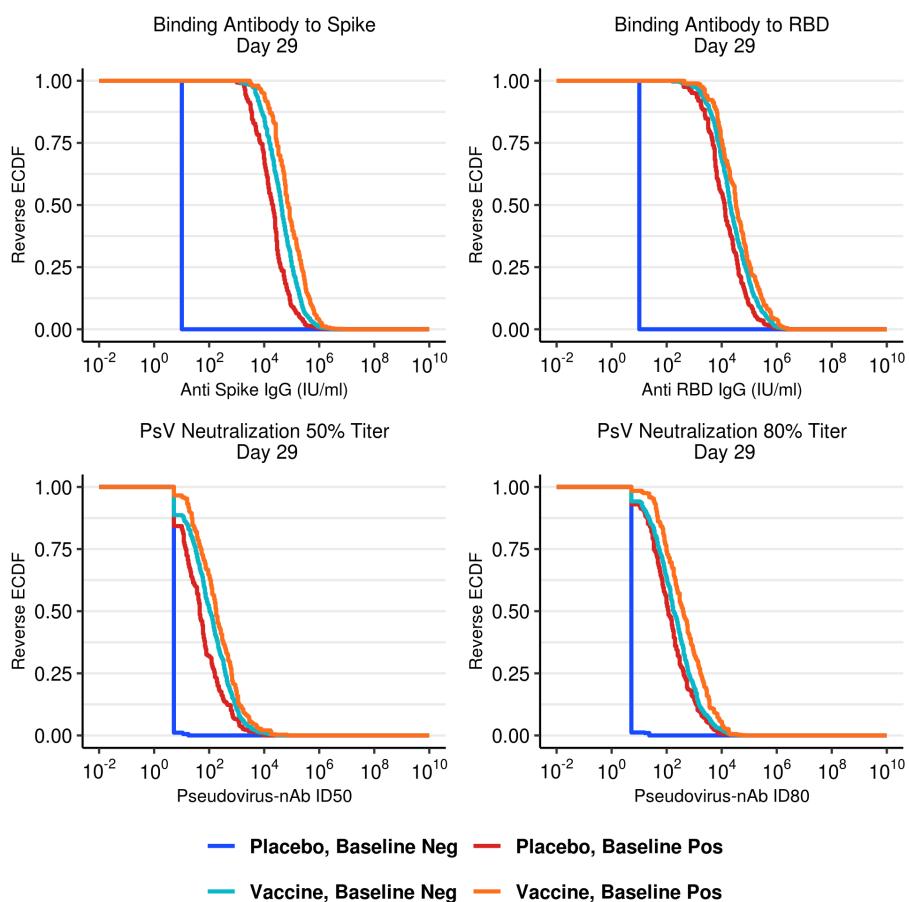


Figure 2.17: RCDF plots for D29 Ab markers: by baseline status x randomization arm

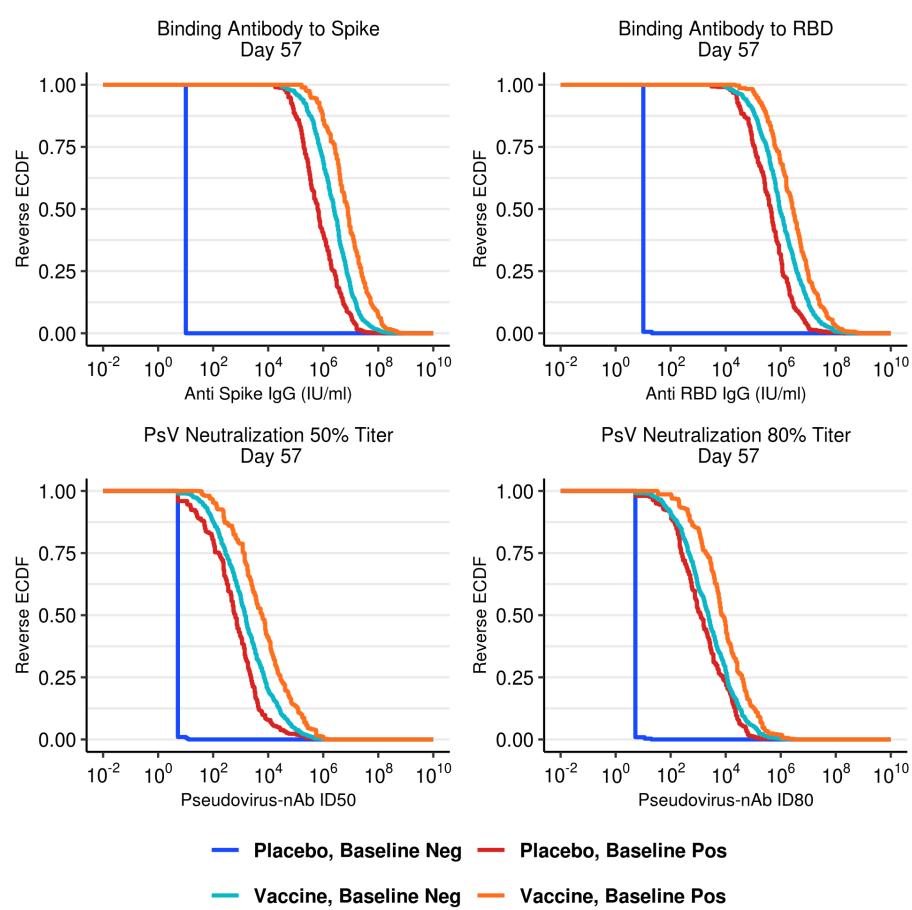


Figure 2.18: RCDF plots for D57 Ab markers: by baseline status x randomization arm

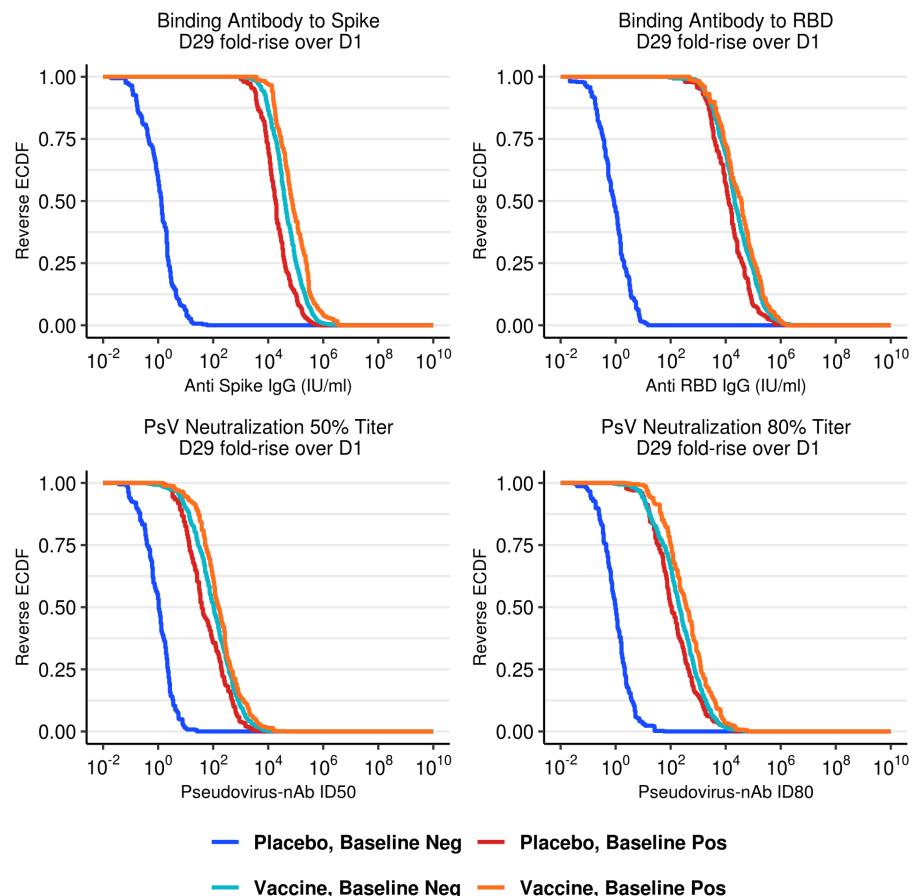


Figure 2.19: RCDF plots for D29 fold-rise over D1 Ab markers: by baseline status x randomization arm

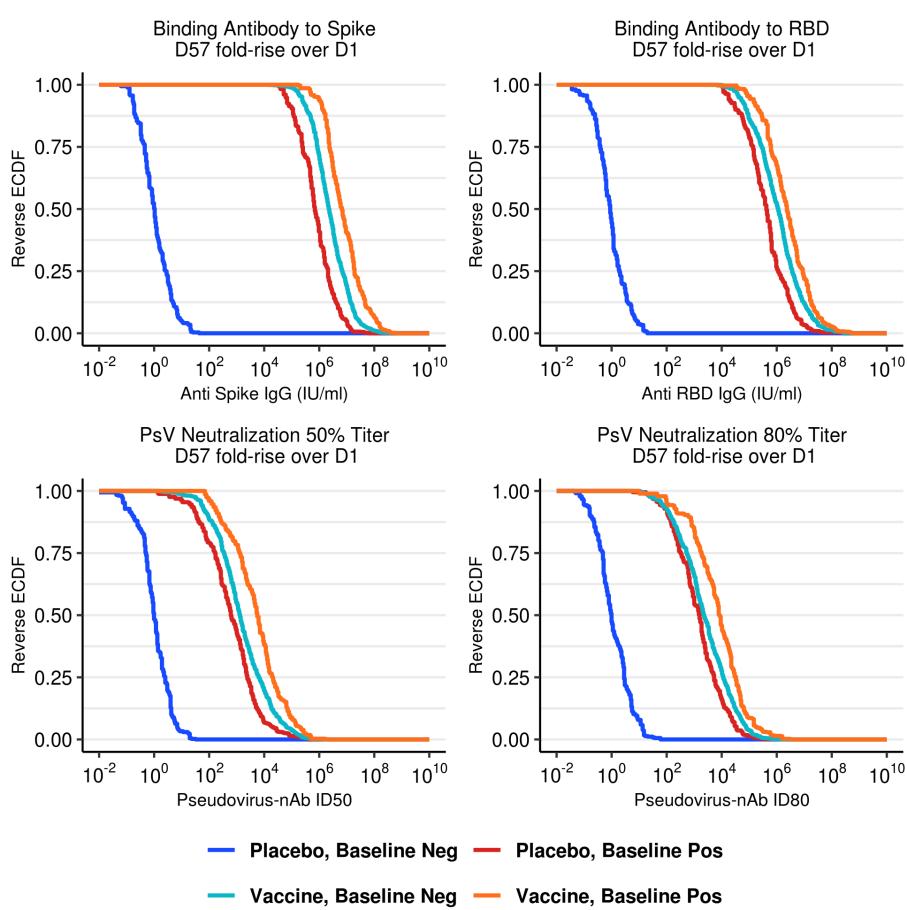


Figure 2.20: RCDF plots for D57 fold-rise over D1 Ab markers: by baseline status x randomization arm

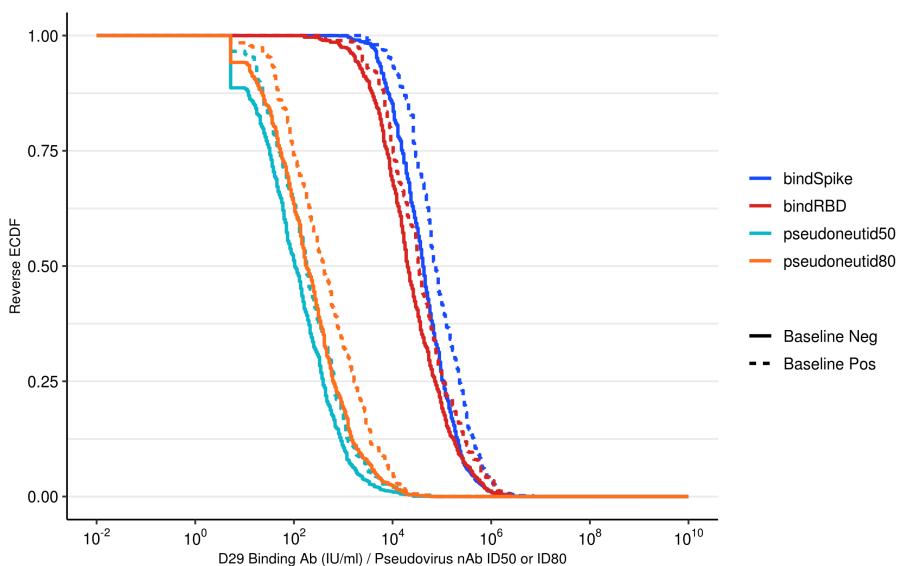


Figure 2.21: RCDF plots for D29 Ab markers: by baseline status for the vaccine arm

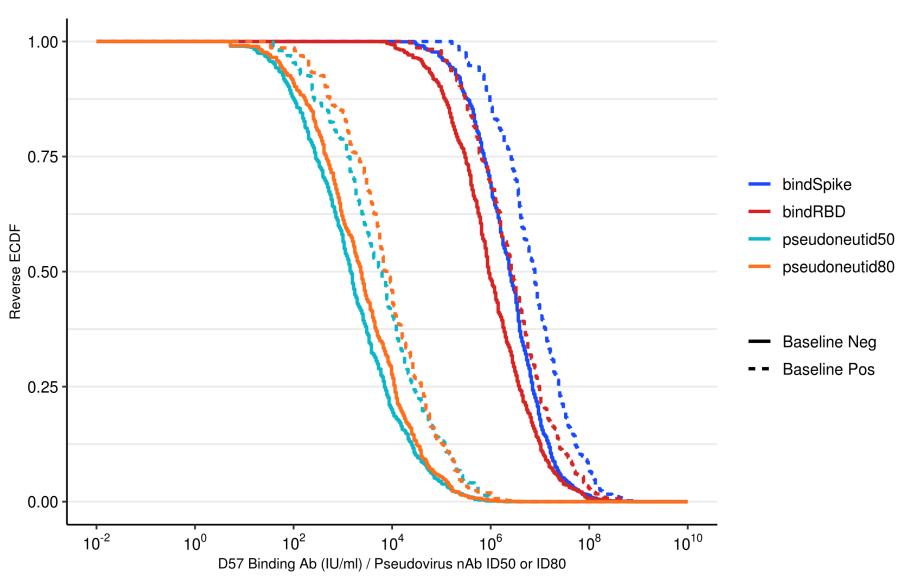


Figure 2.22: RCDF plots for D57 Ab markers: by baseline status for the vaccine arm

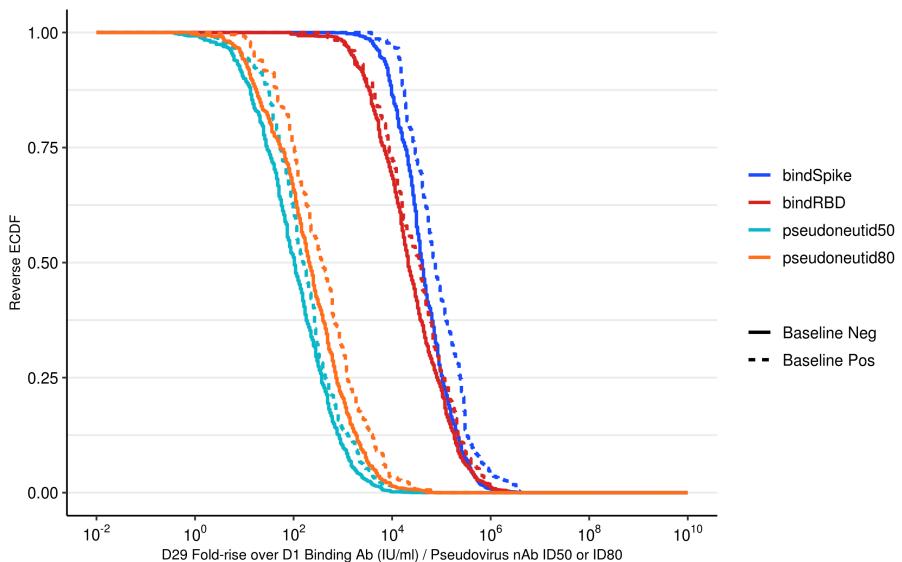


Figure 2.23: RCDF plots for D29 over D1 fold-rise Ab markers: by baseline status for the vaccine arm

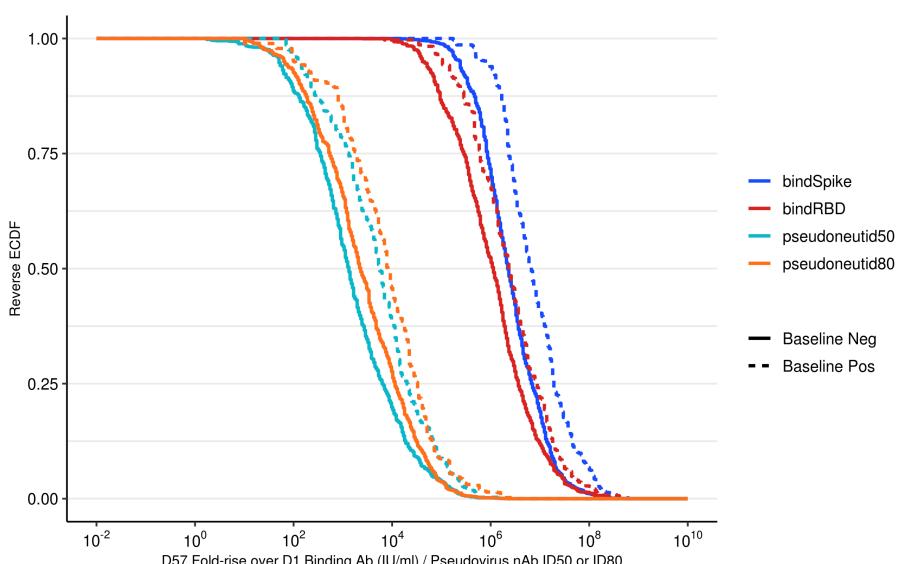


Figure 2.24: RCDF plots for D57 fold-rise over D1 Ab markers: by baseline status for the vaccine arm

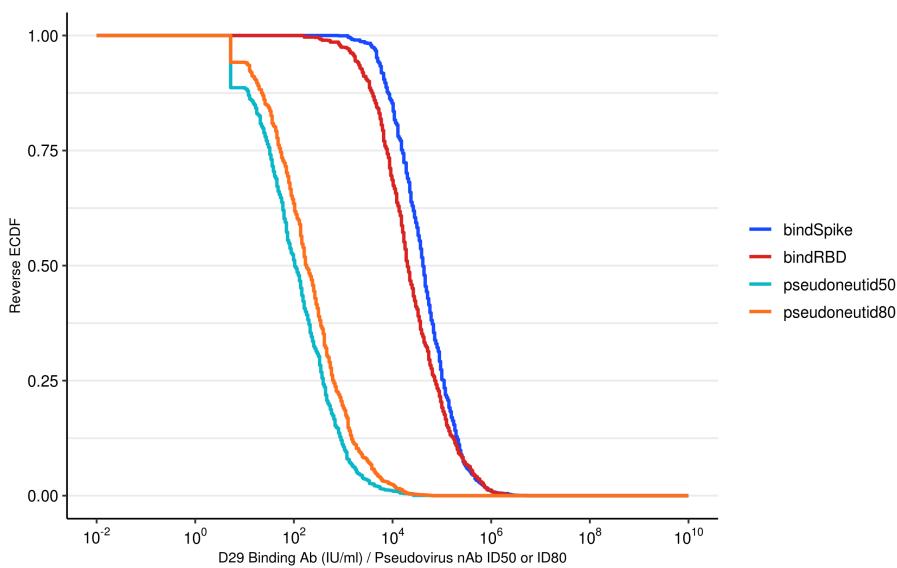


Figure 2.25: RCDF plots for D29 Ab markers: baseline negative vaccine arm

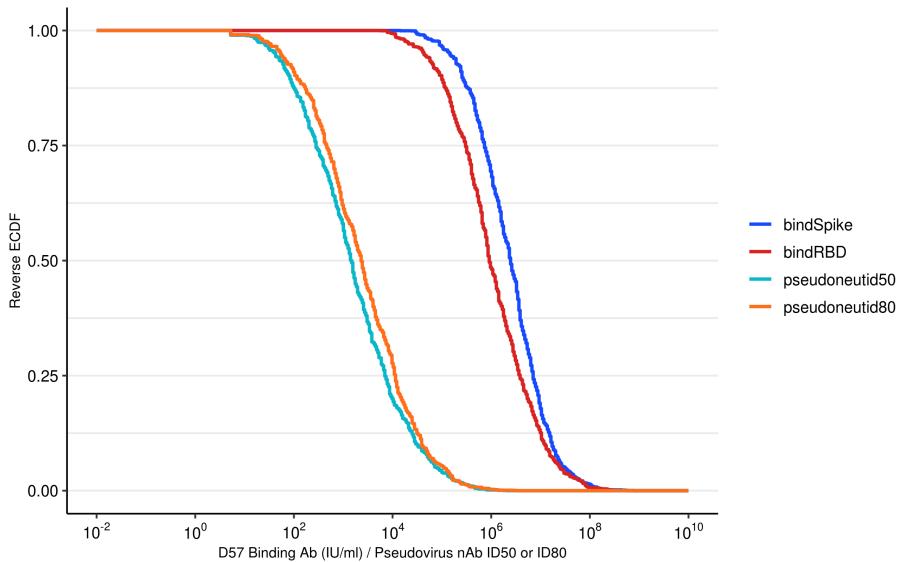


Figure 2.26: RCDF plots for D57 Ab markers: baseline negative vaccine arm

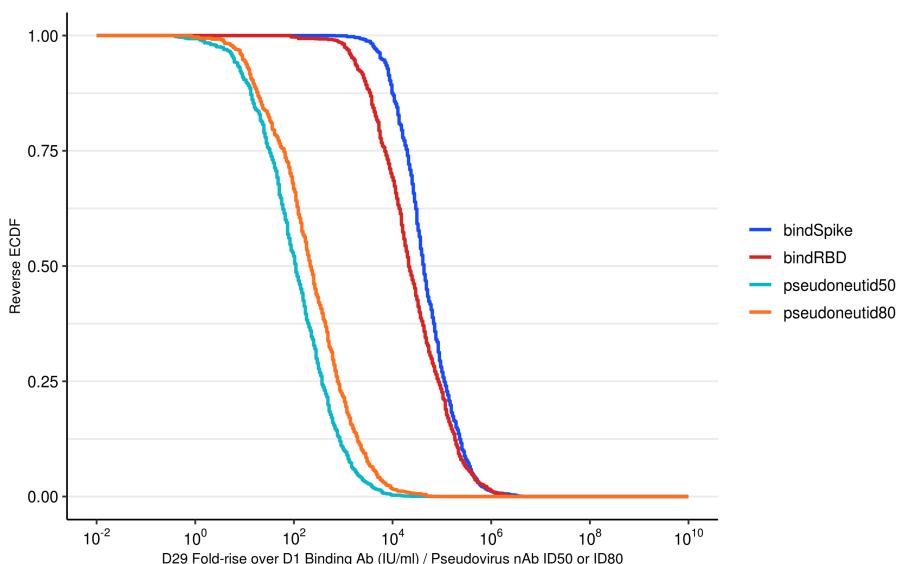


Figure 2.27: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm

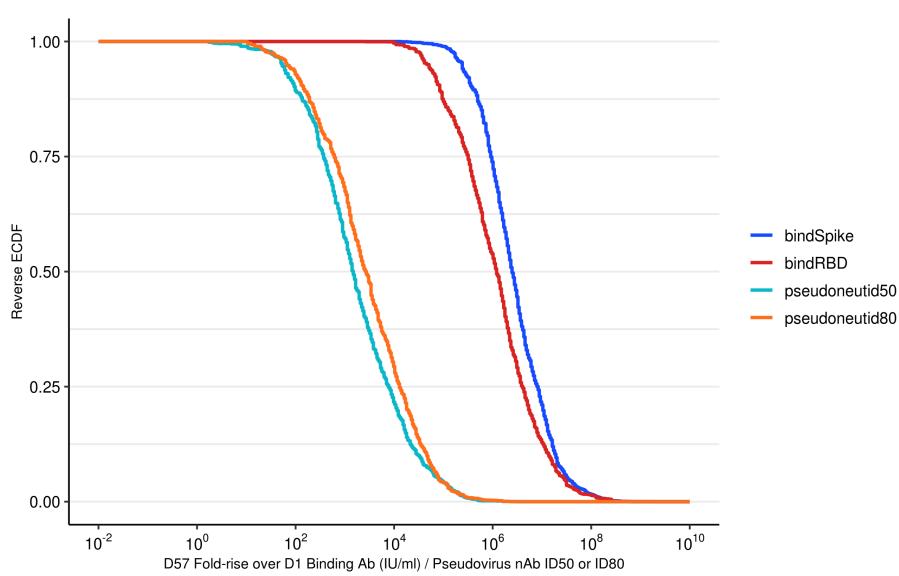


Figure 2.28: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm

## 2.3 Scatter plots of antibody markers versus age for overall per-protocol cohort

### 2.3.1 Baseline SARS-CoV-2 negative

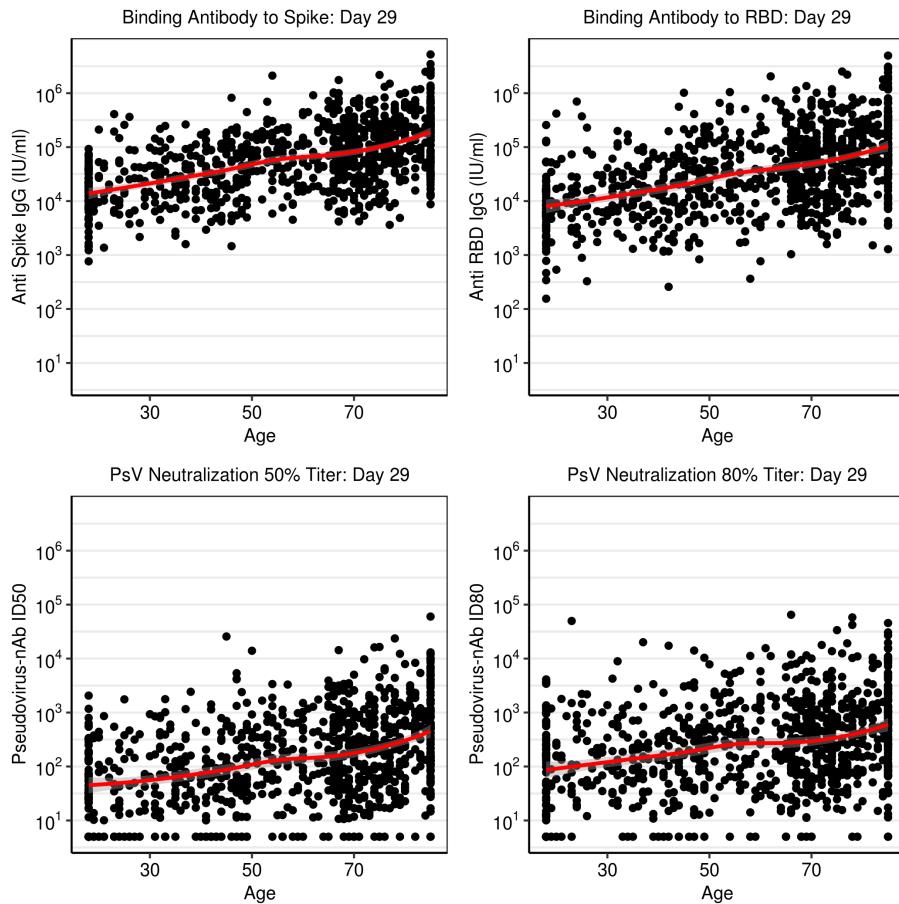


Figure 2.29: Scatter plots for D29 Ab markers vs. age: baseline negative vaccine arm

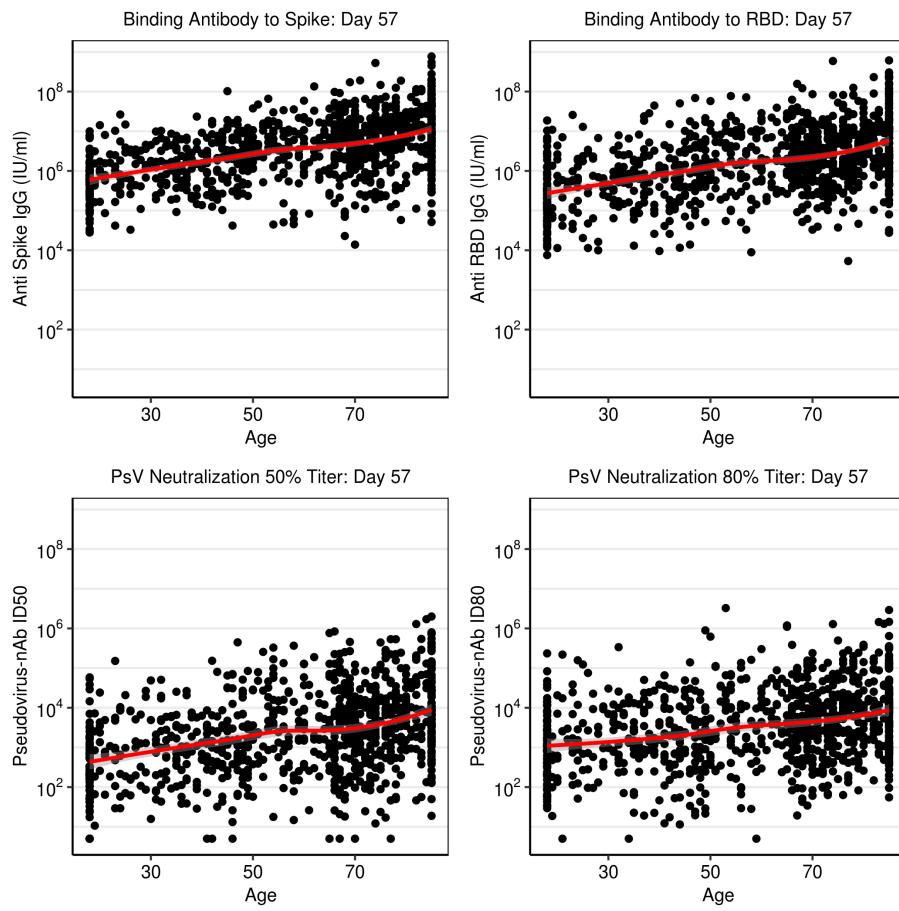


Figure 2.30: Scatter plots for D57 Ab markers vs. age: baseline negative vaccine arm

### 2.3.2 Baseline SARS-CoV-2 positive

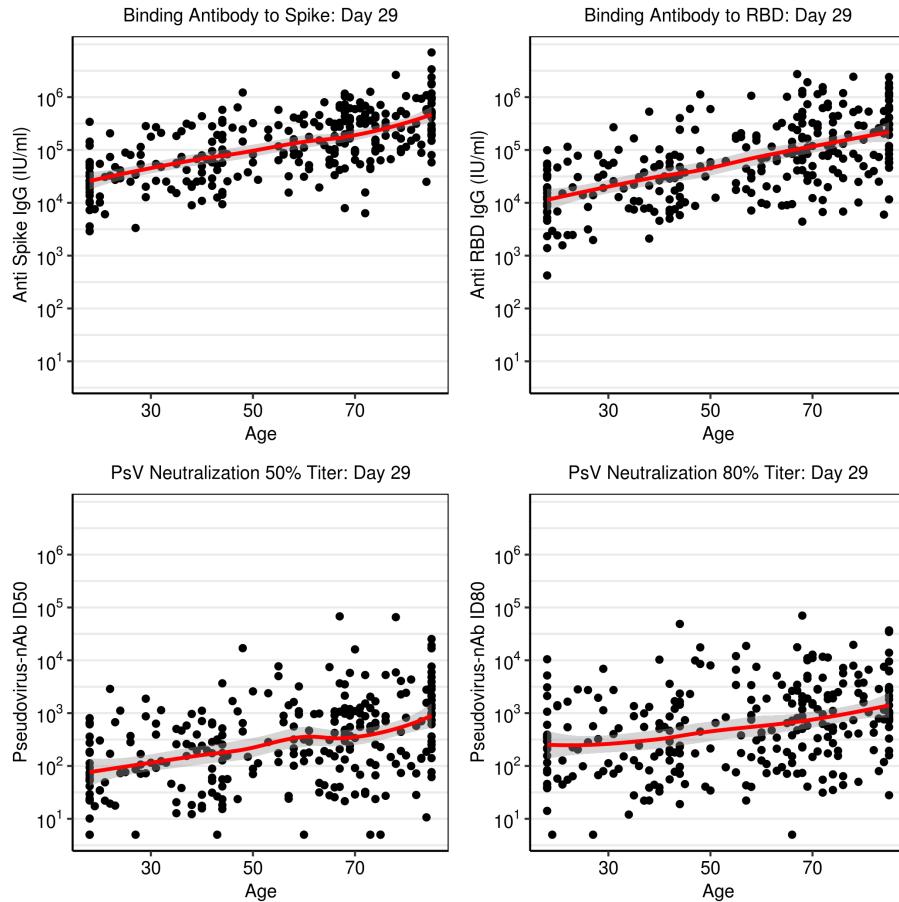


Figure 2.31: Scatter plots for D29 Ab markers vs. age: baseline positive vaccine arm

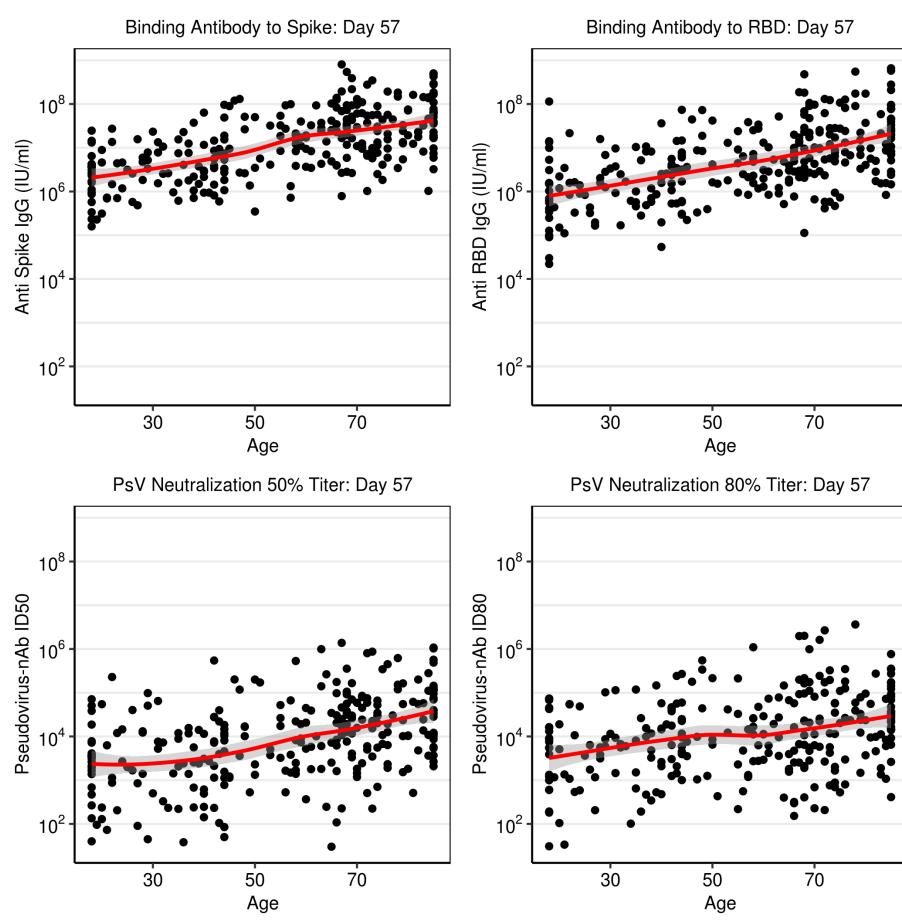


Figure 2.32: Scatter plots for D57 Ab markers vs. age: baseline positive vaccine arm

## 2.4 Box plots of antibody markers for overall per-protocol cohort

#### 2.4.1 Baseline SARS-CoV-2 negative

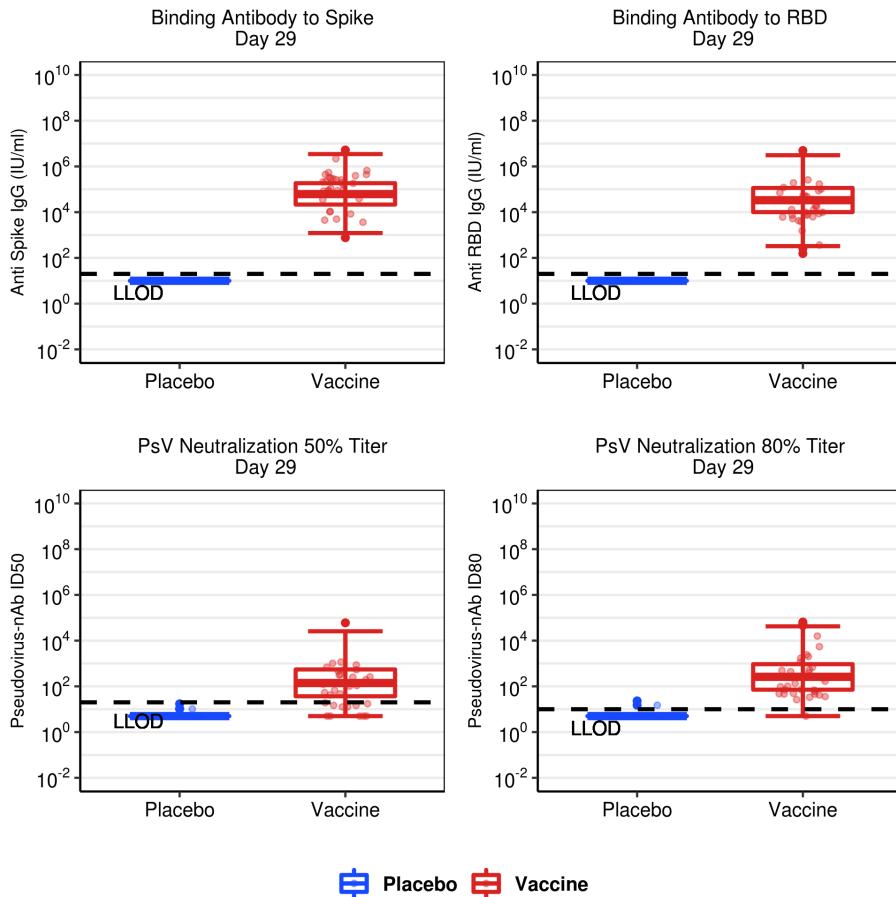


Figure 2.33: Boxplots of D29 Ab markers: baseline negative vaccine + placebo arms

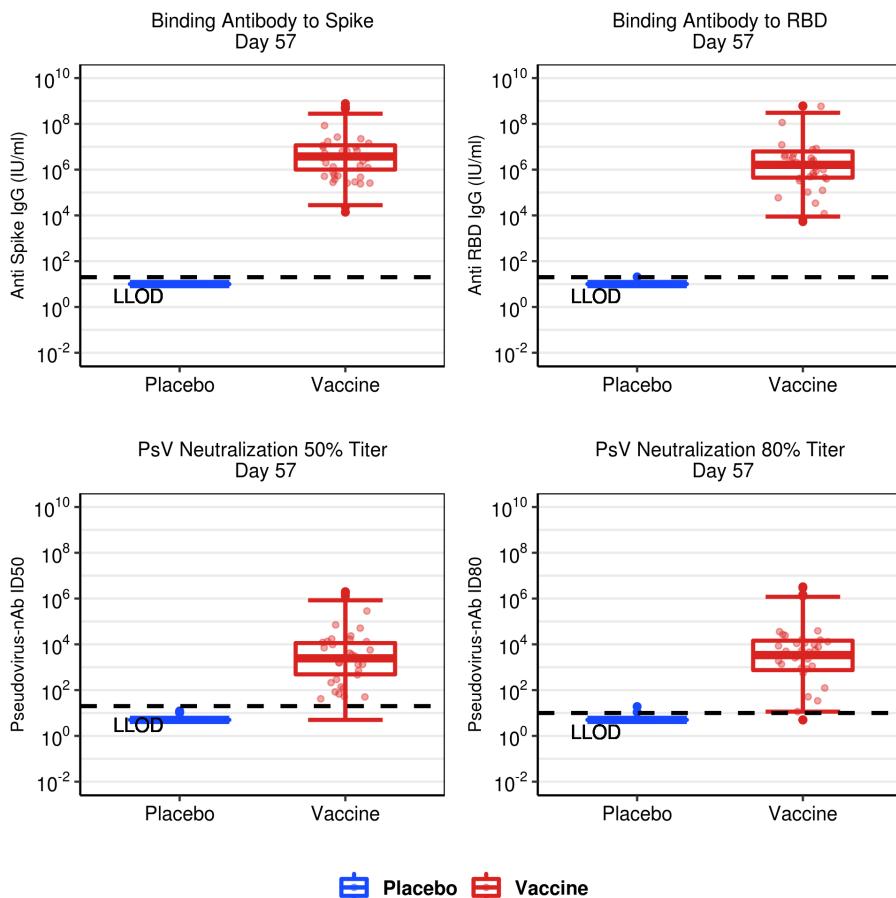


Figure 2.34: Boxplots of D57 Ab markers: baseline negative vaccine + placebo arms

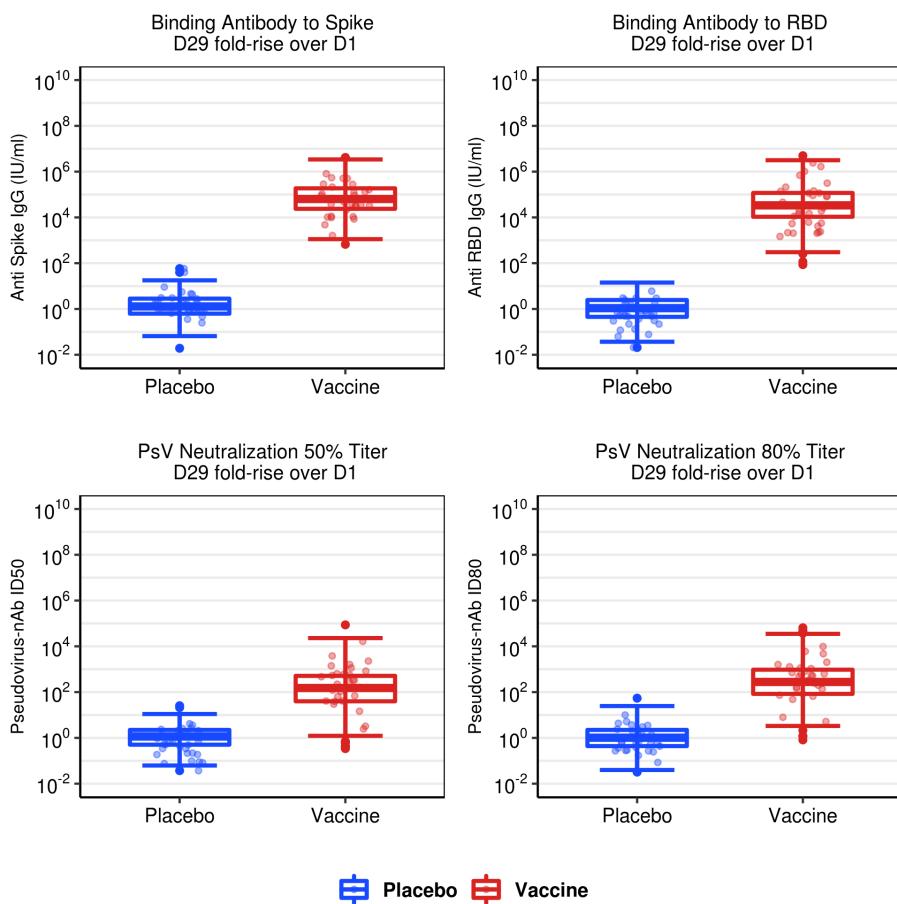


Figure 2.35: Boxplots of D29 fold-rise over D1 Ab markers: baseline negative vaccine + placebo arms

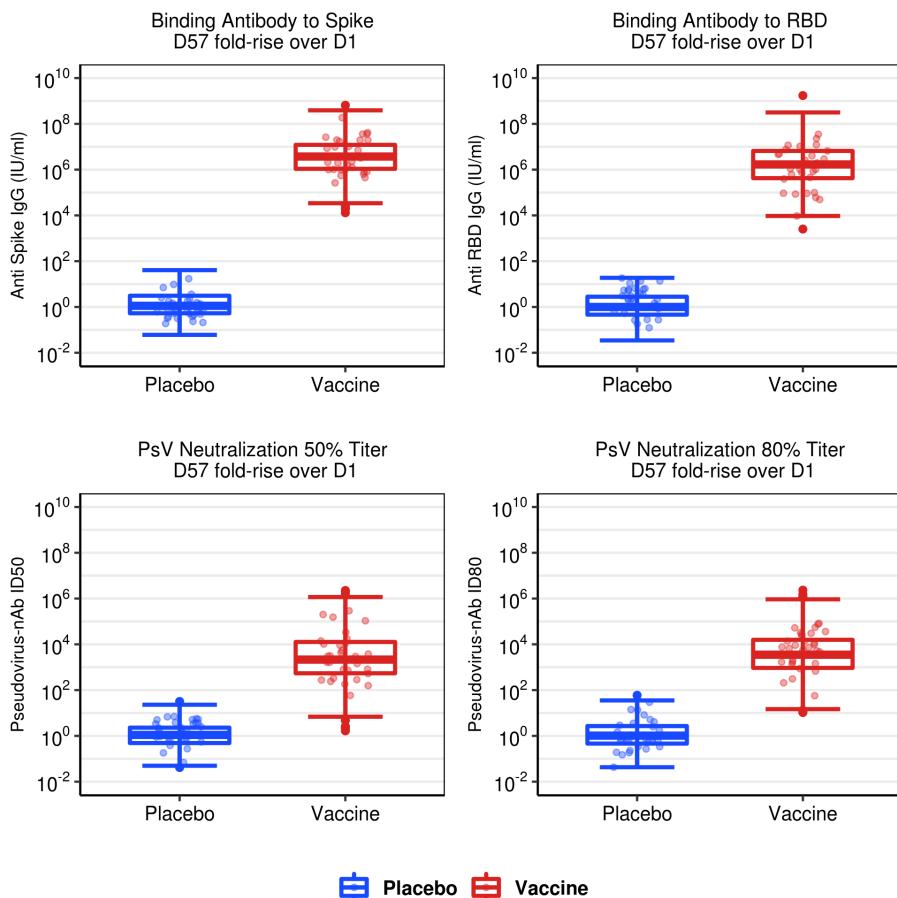


Figure 2.36: Boxplots of D57 fold-rise over D1 Ab markers: baseline negative vaccine + placebo arms

## 2.4.2 Baseline SARS-CoV-2 positive

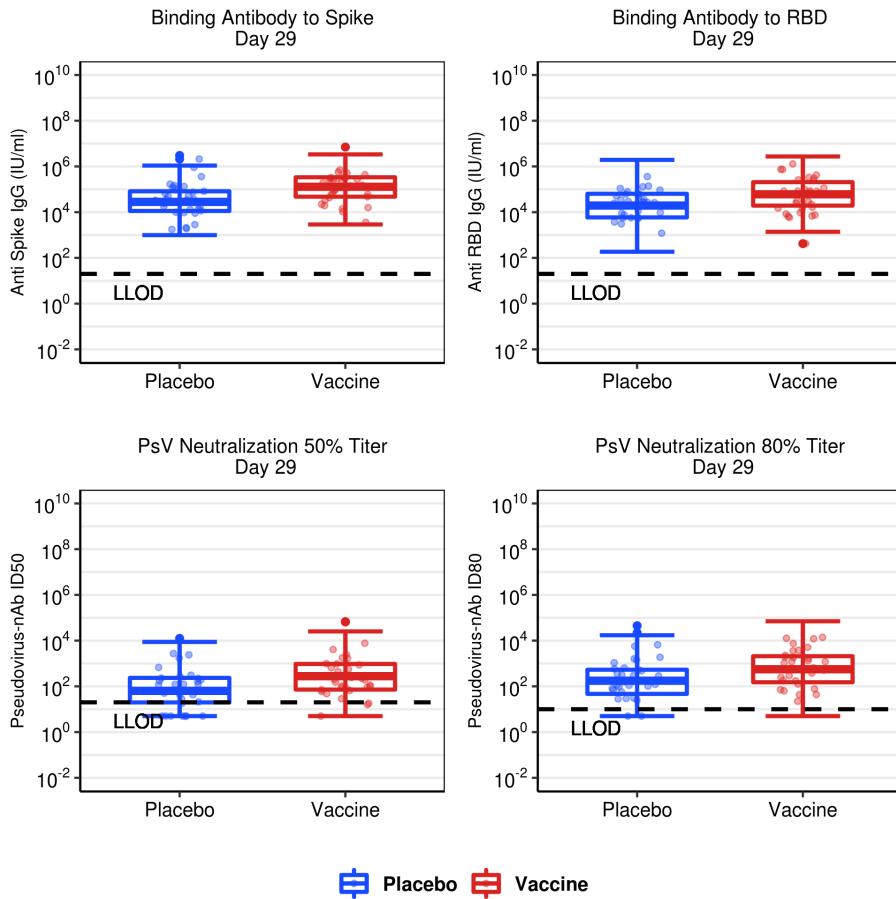


Figure 2.37: Boxplots of D29 Ab markers: baseline positive vaccine + placebo arms

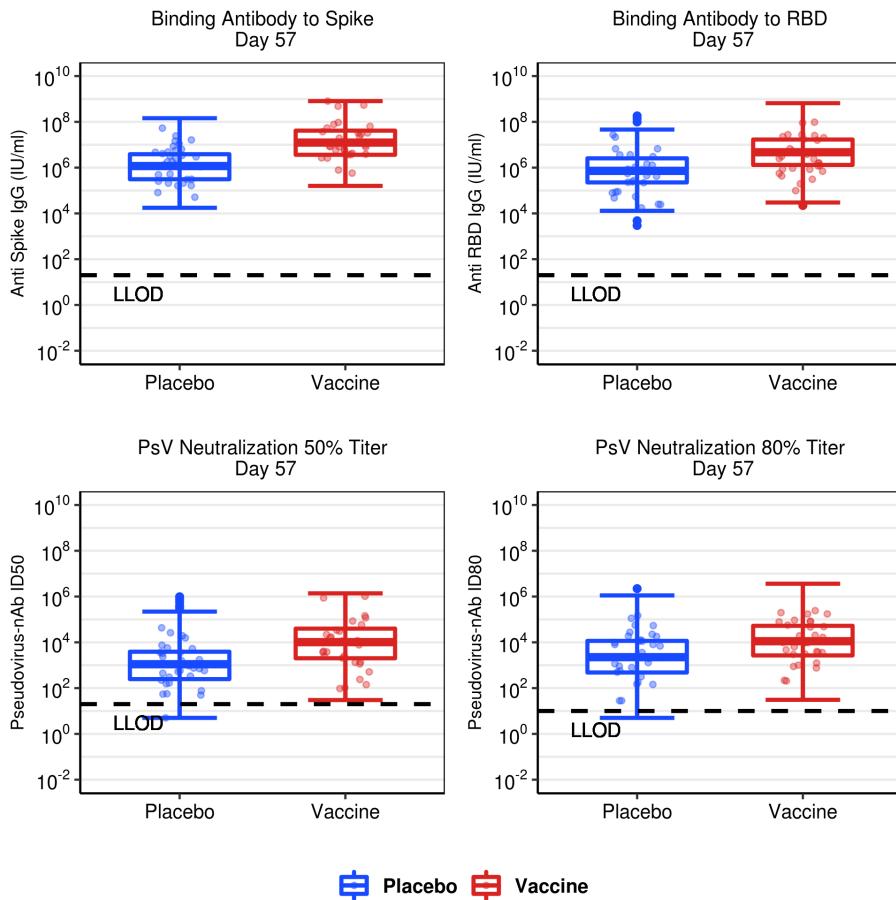


Figure 2.38: Boxplots of D57 Ab markers: baseline positive vaccine + placebo arms

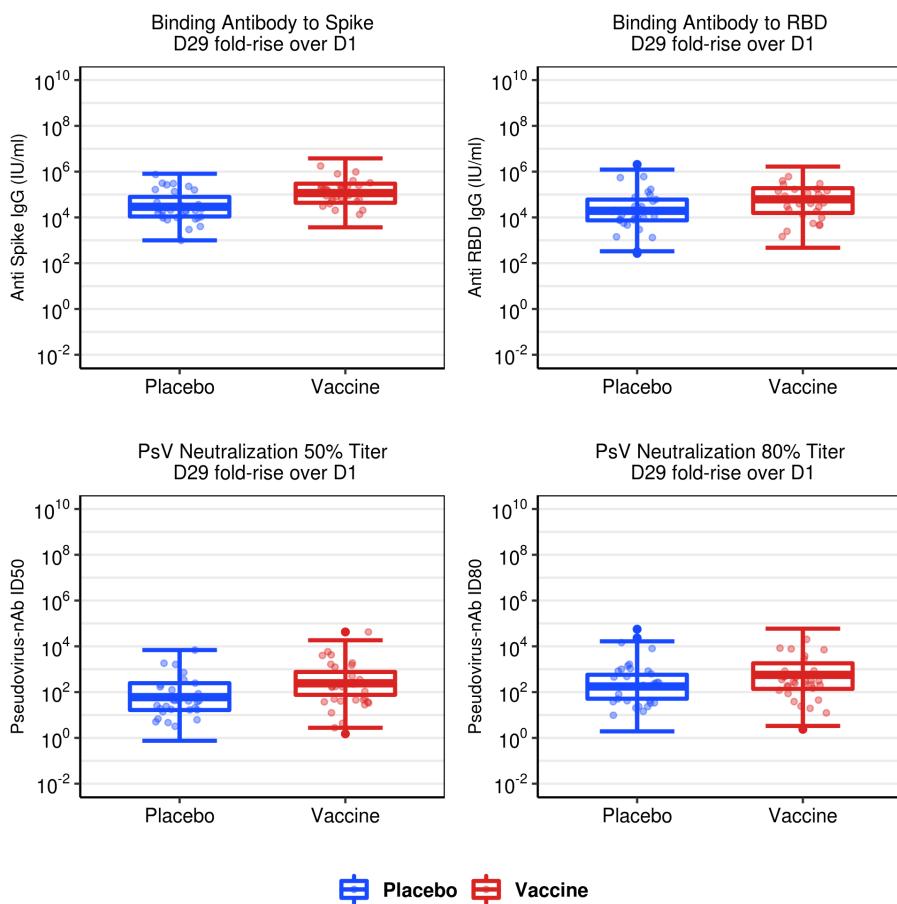


Figure 2.39: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine + placebo arms

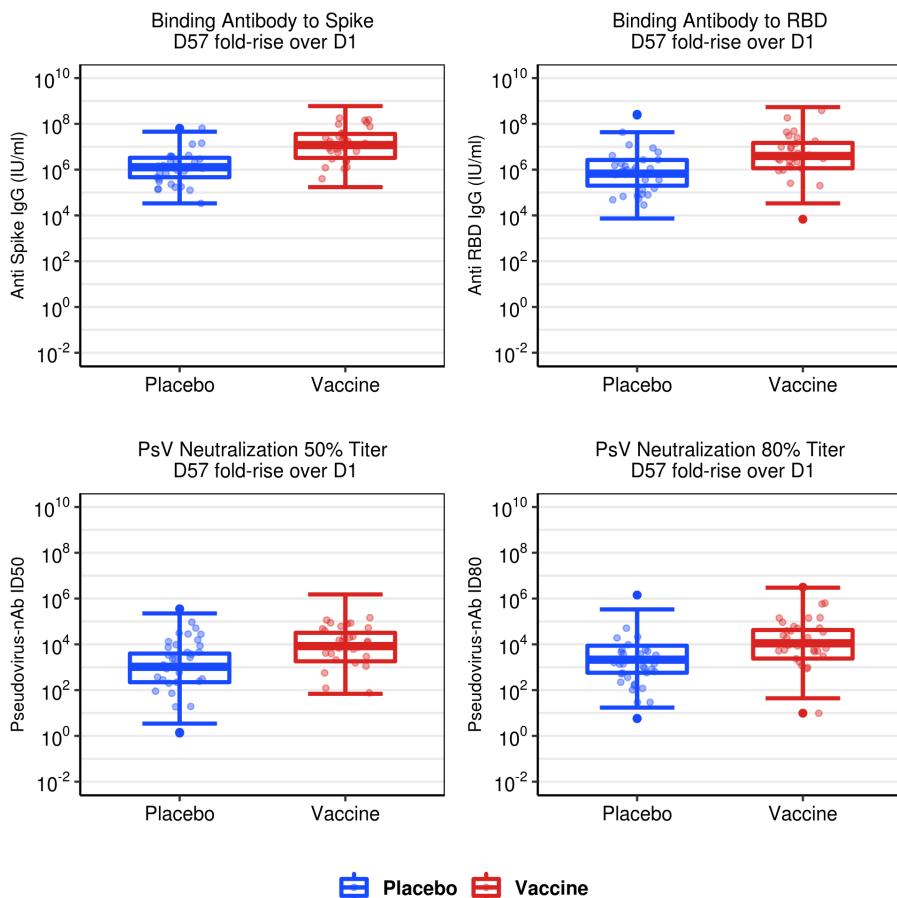


Figure 2.40: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine + placebo arms

### 2.4.3 Baseline negative vs. positive vaccine recipients

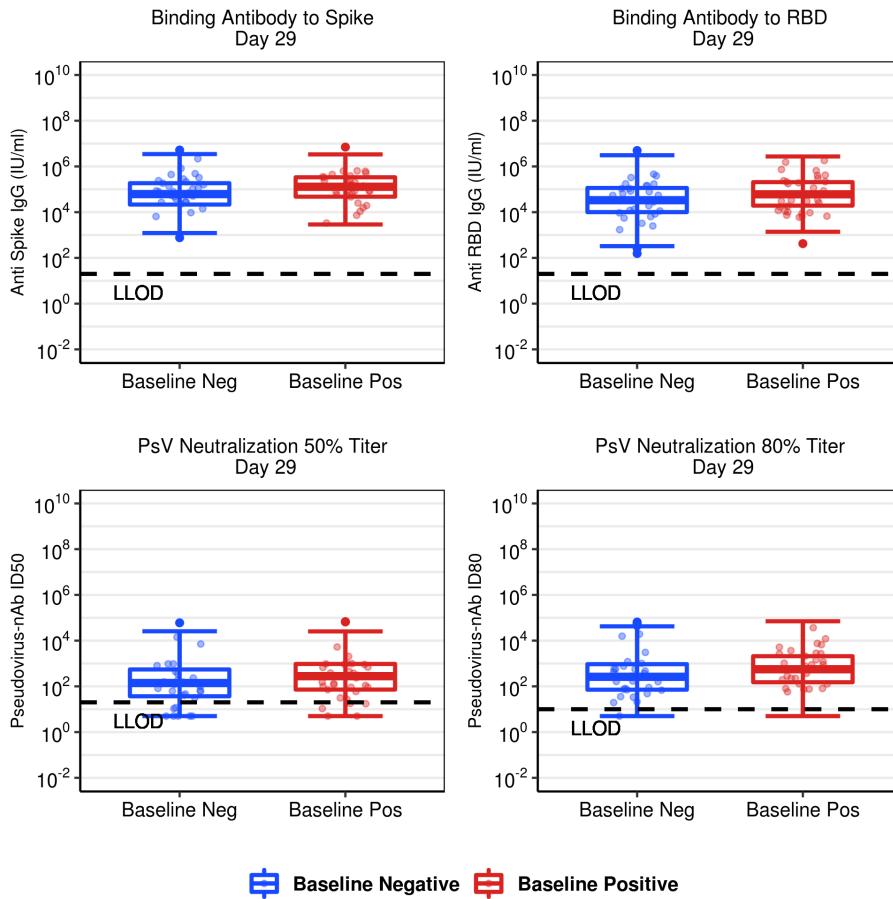


Figure 2.41: Boxplots of D29 Ab markers: baseline positive + negative vaccine arm

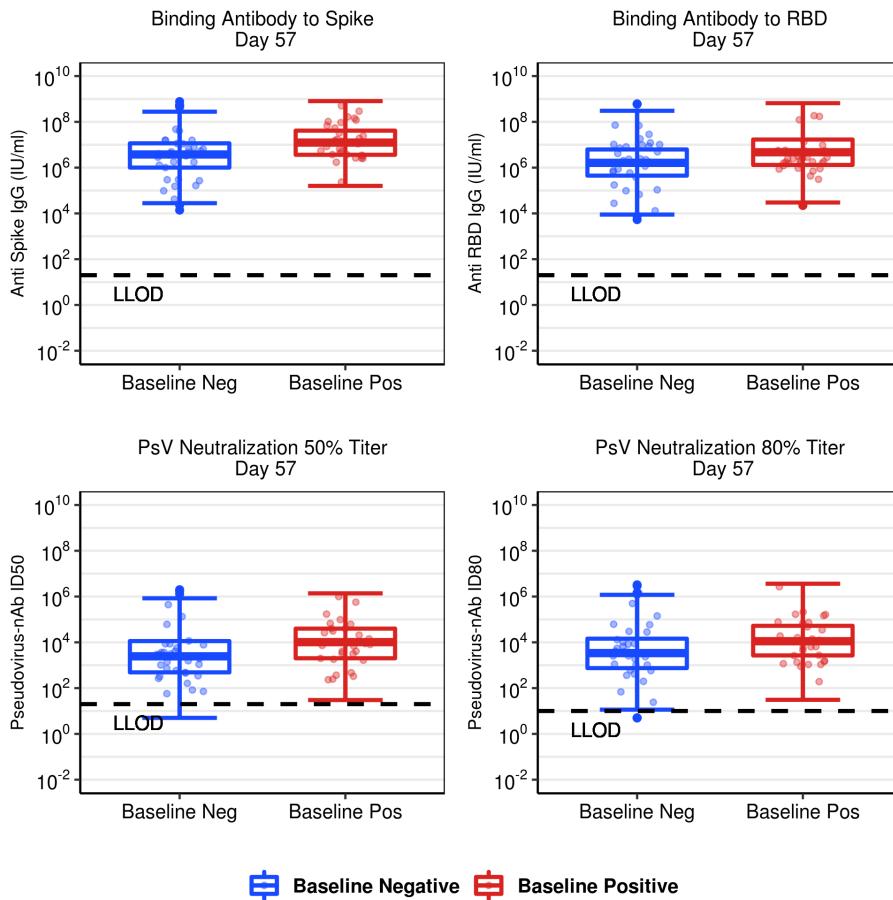


Figure 2.42: Boxplots of D57 Ab markers: baseline positive + negative vaccine arm

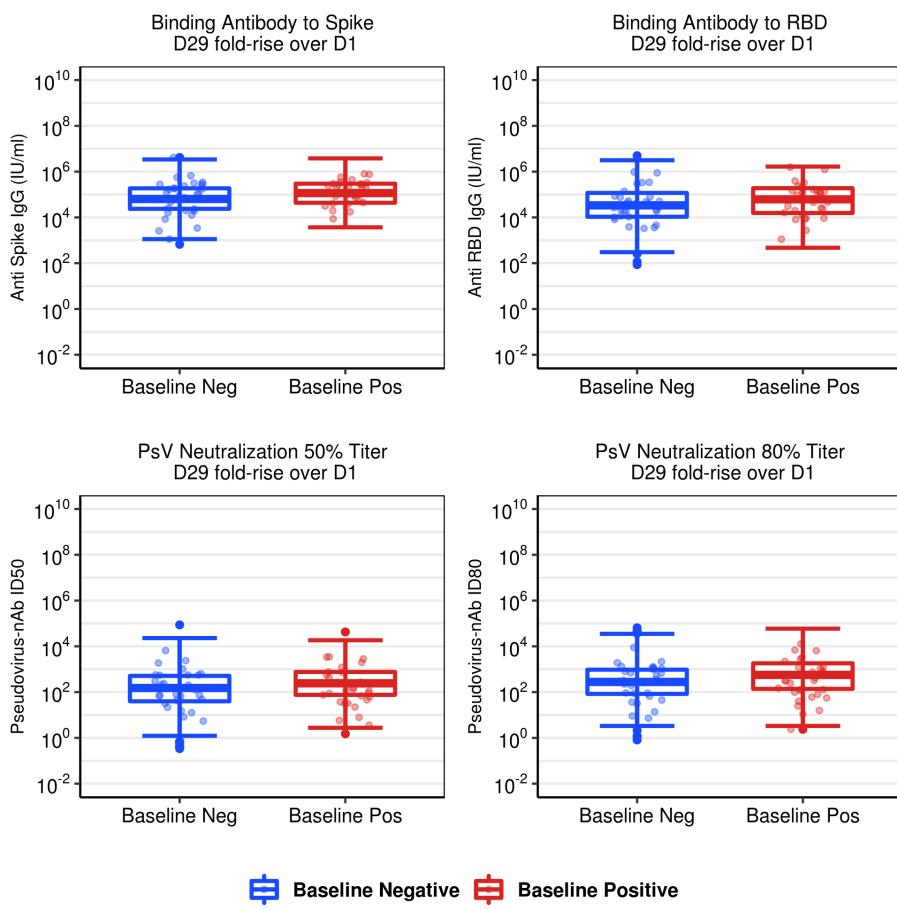


Figure 2.43: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive + negative vaccine arm

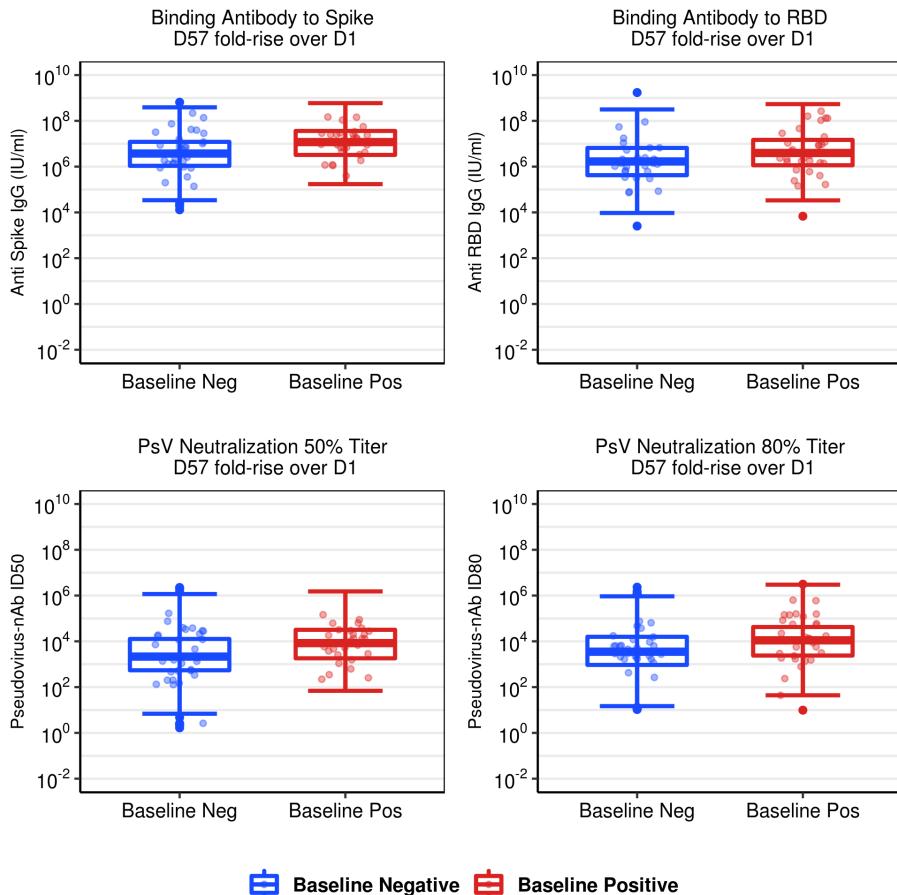


Figure 2.44: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive + negative vaccine arm

#### 2.4.4 Baseline negative vs. positive placebo recipients

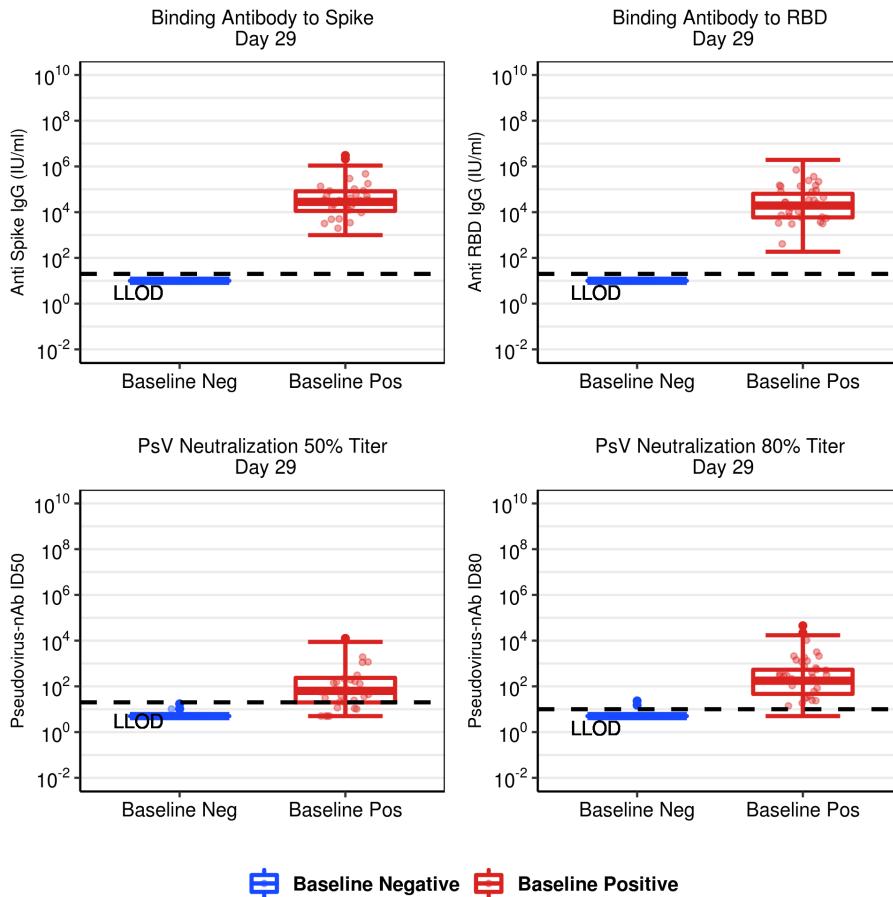


Figure 2.45: Boxplots of D29 Ab markers: baseline positive + negative placebo arm

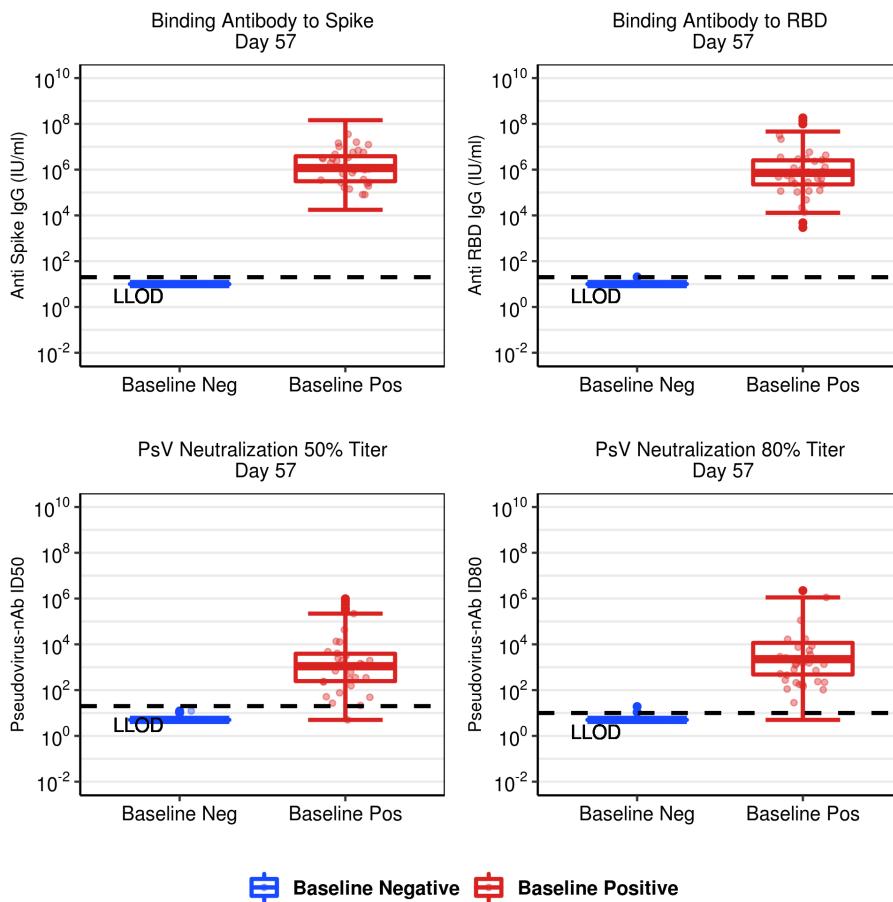


Figure 2.46: Boxplots of D57 Ab markers: baseline positive + negative placebo arm

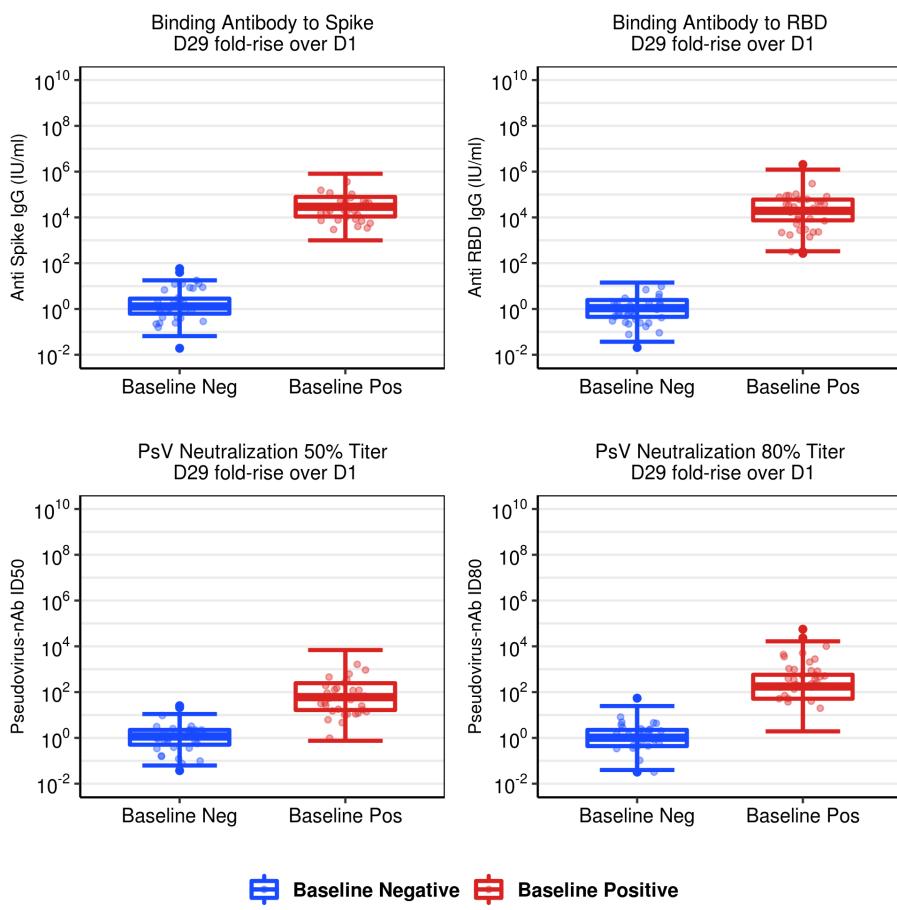


Figure 2.47: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive + negative placebo arm

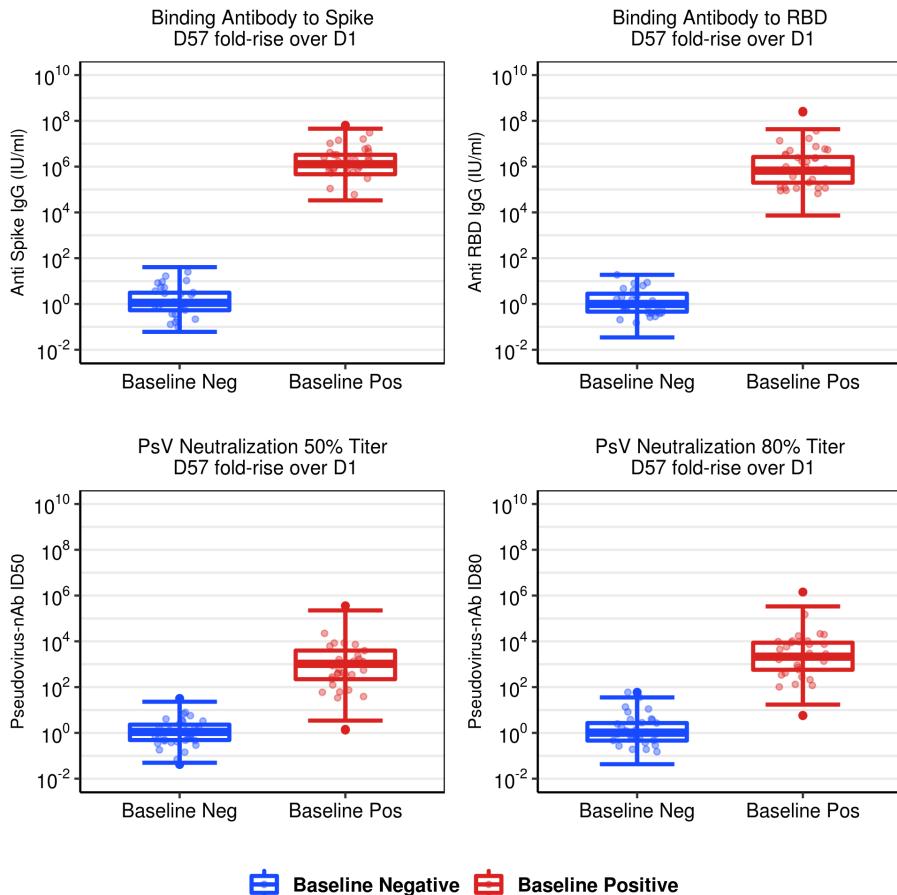


Figure 2.48: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive + negative placebo arm

## 2.5 Spaghetti plots of antibody markers over time for the overall per-protocol cohort

### 2.5.1 Baseline SARS-CoV-2 negative

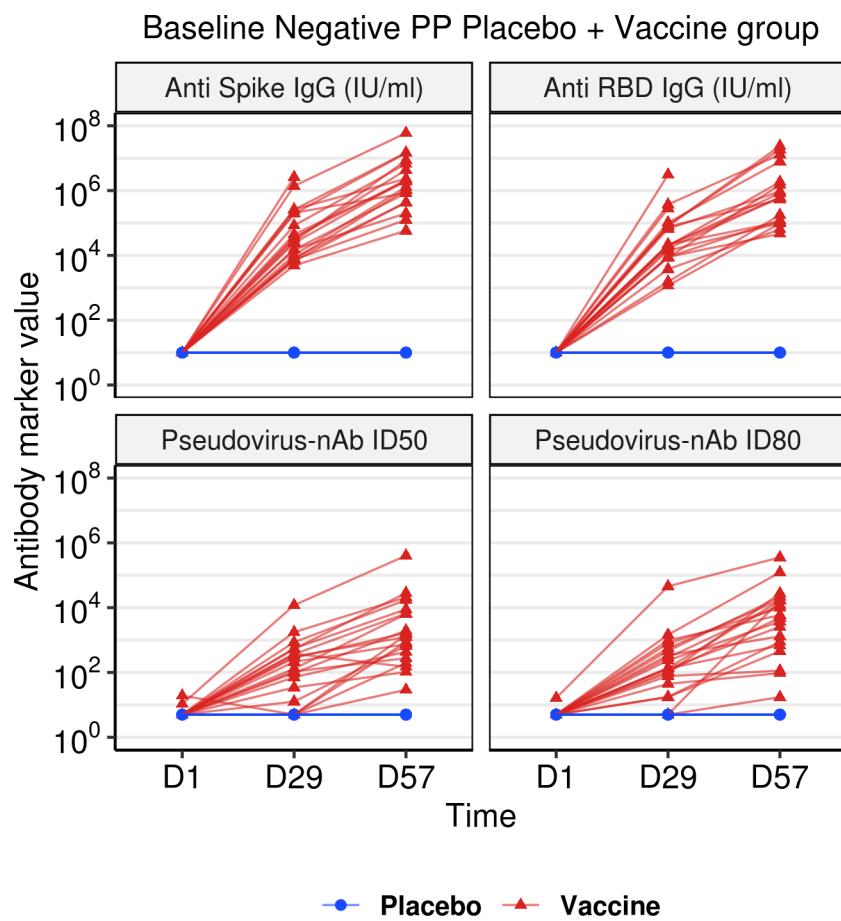


Figure 2.49: Spaghetti plots of Ab markers over time: baseline negative vaccine + placebo arm

## 2.5.2 Baseline SARS-CoV-2 positive

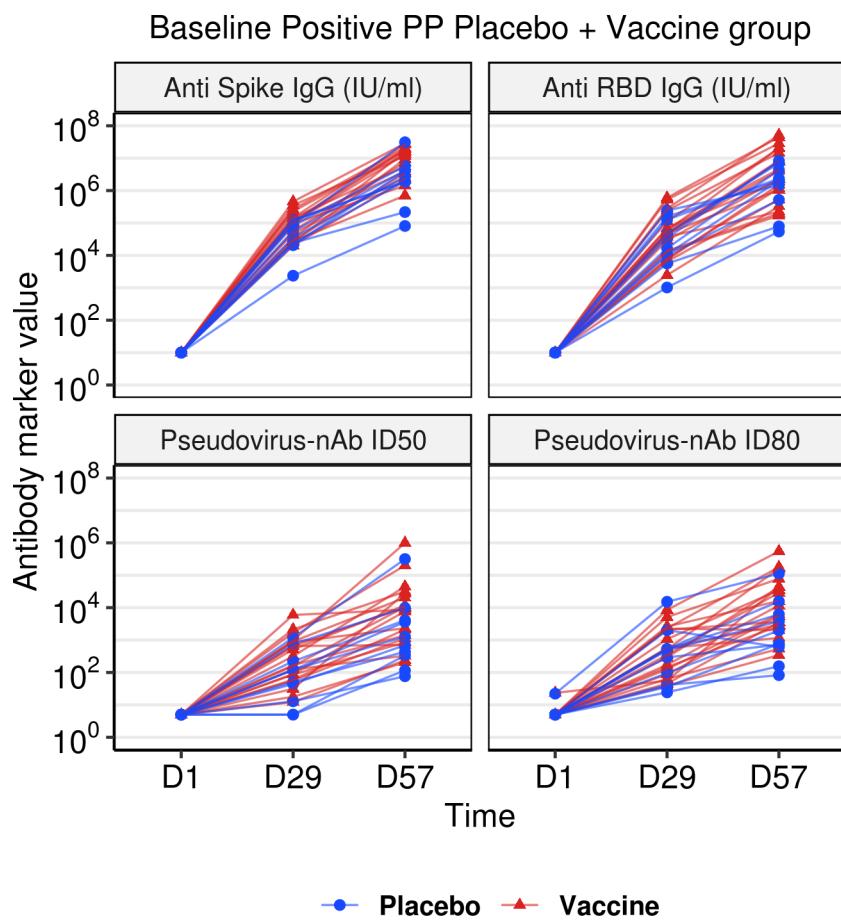


Figure 2.50: Spaghetti plots of Ab markers over time: baseline positive vaccine + placebo arm

2.6 RCDF plots of antibody markers by demographics for per-protocol cohort

### 2.6.1 Baseline SARS-CoV-2 negative

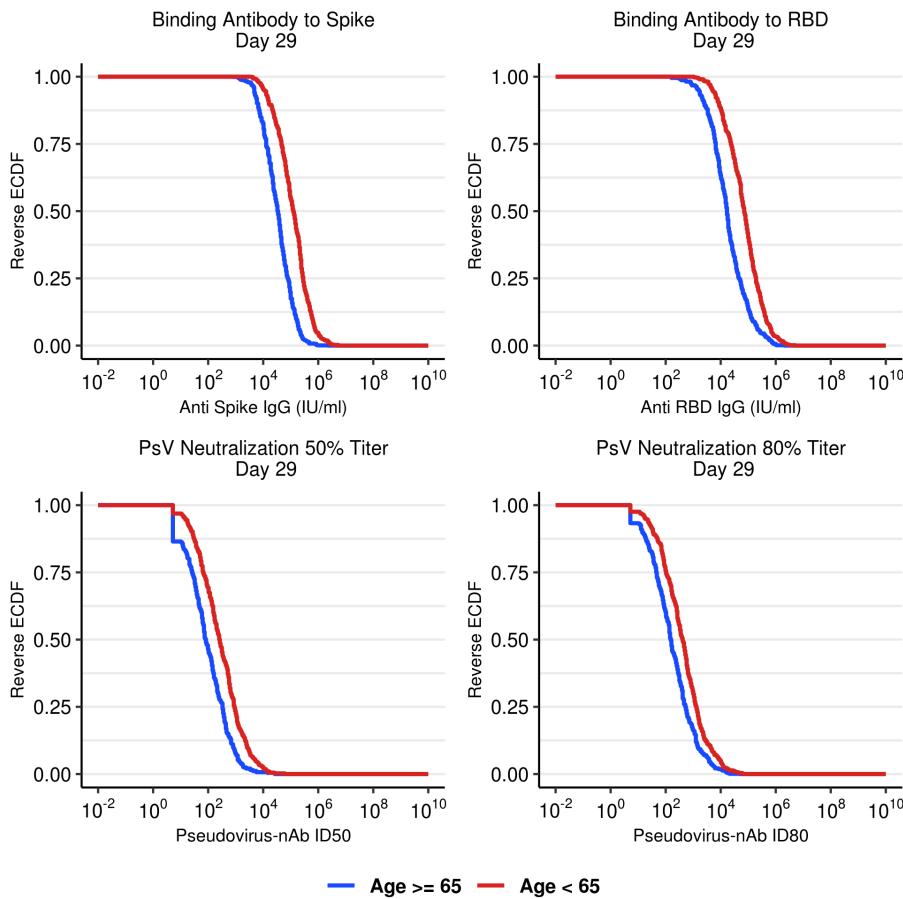


Figure 2.51: RCDF plots for D29 Ab markers: baseline negative vaccine arm by age groups.

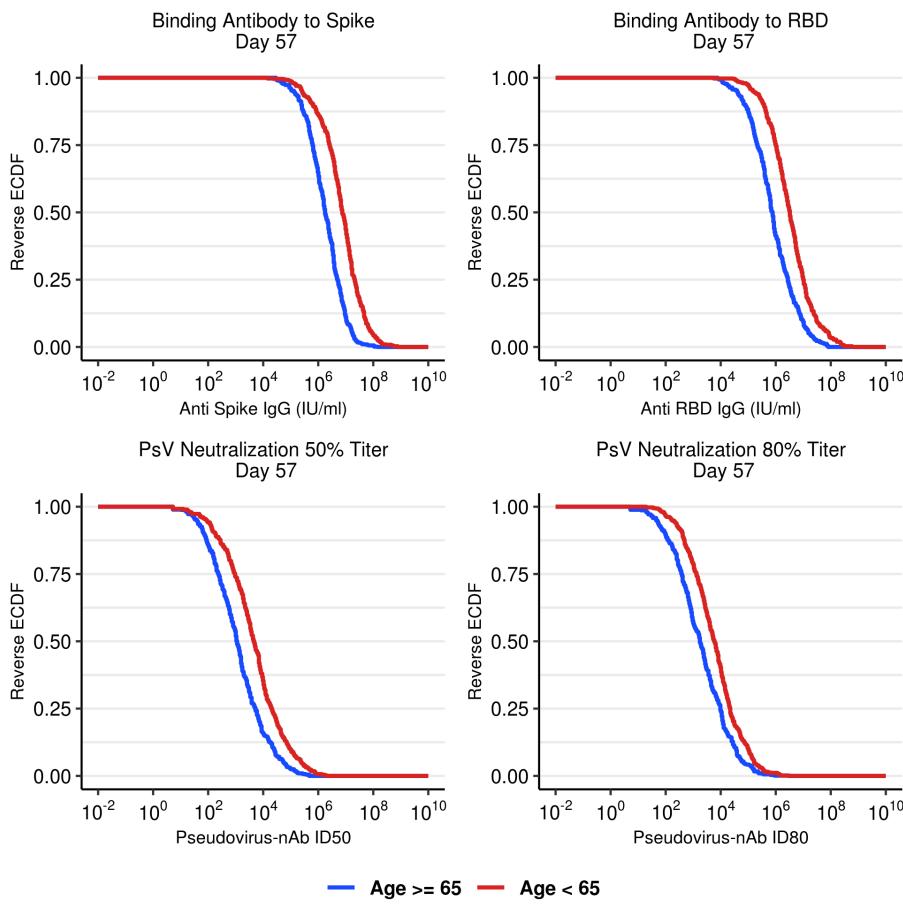


Figure 2.52: RCDF plots for D57 Ab markers: baseline negative vaccine arm by age groups.

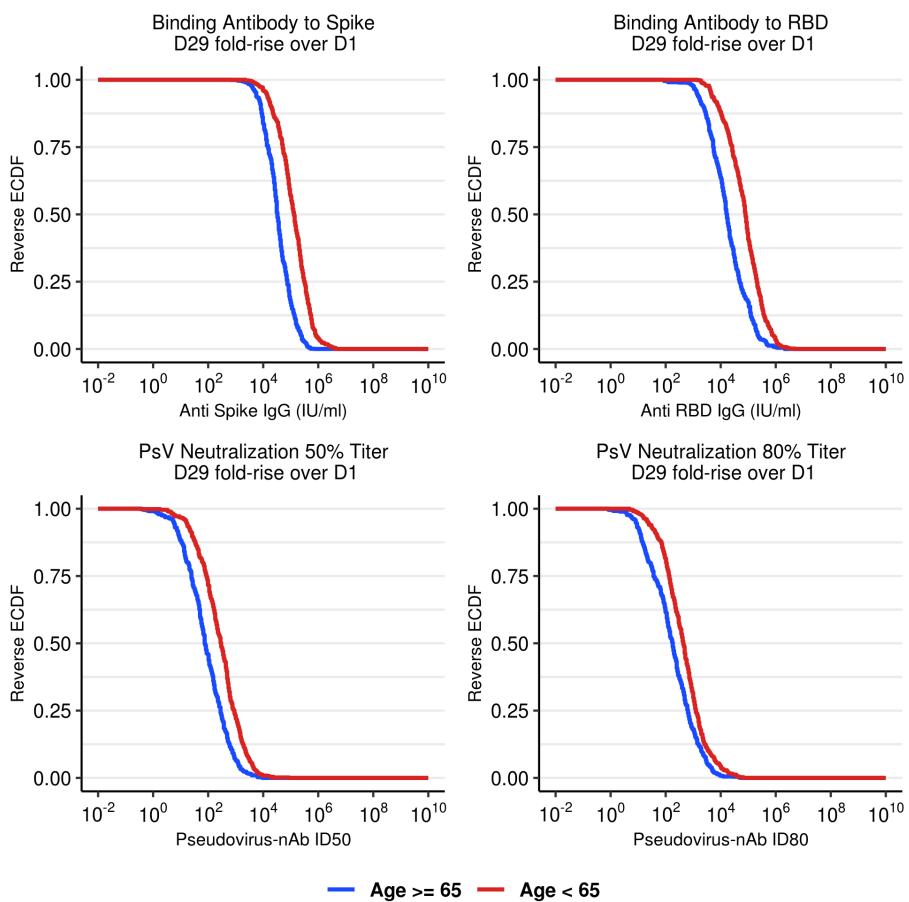


Figure 2.53: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age groups.

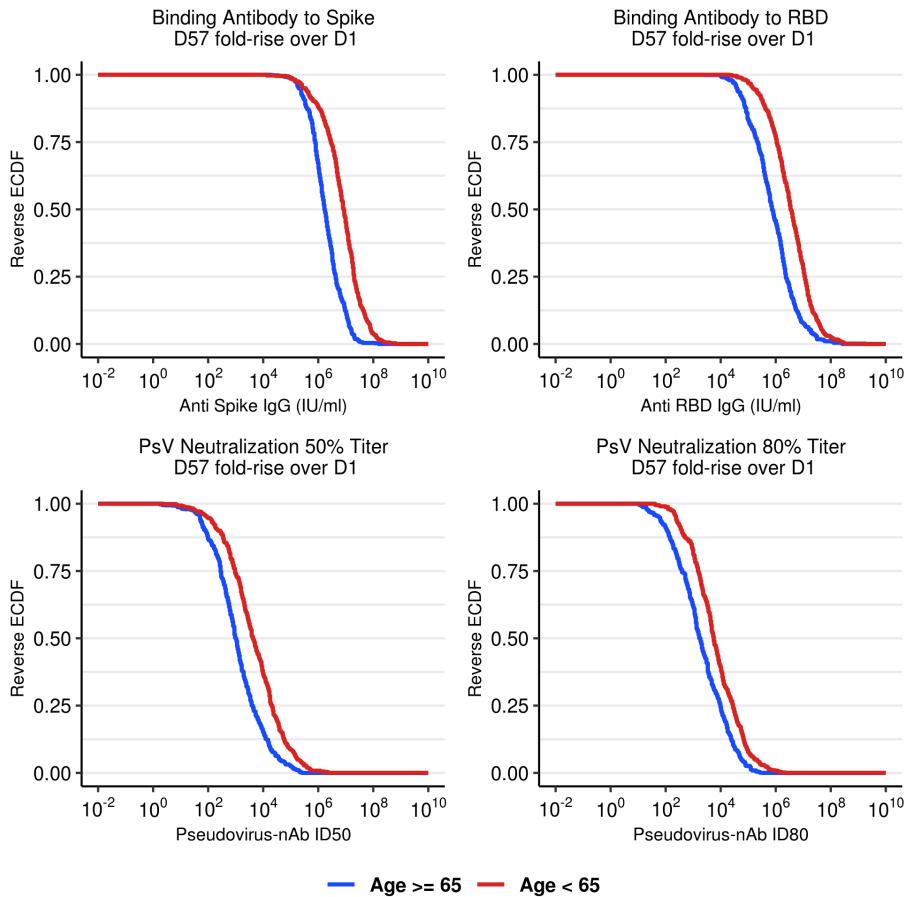


Figure 2.54: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age groups.

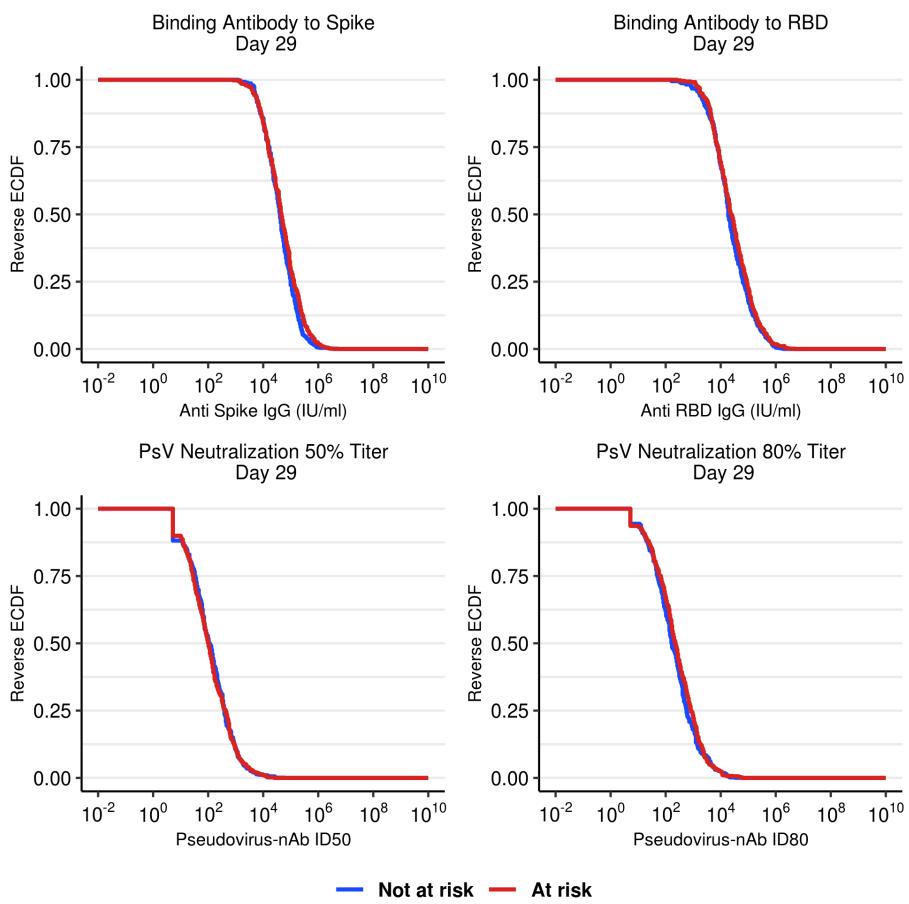


Figure 2.55: RCDF plots for D29 Ab markers: baseline negative vaccine arm by high-risk condition.

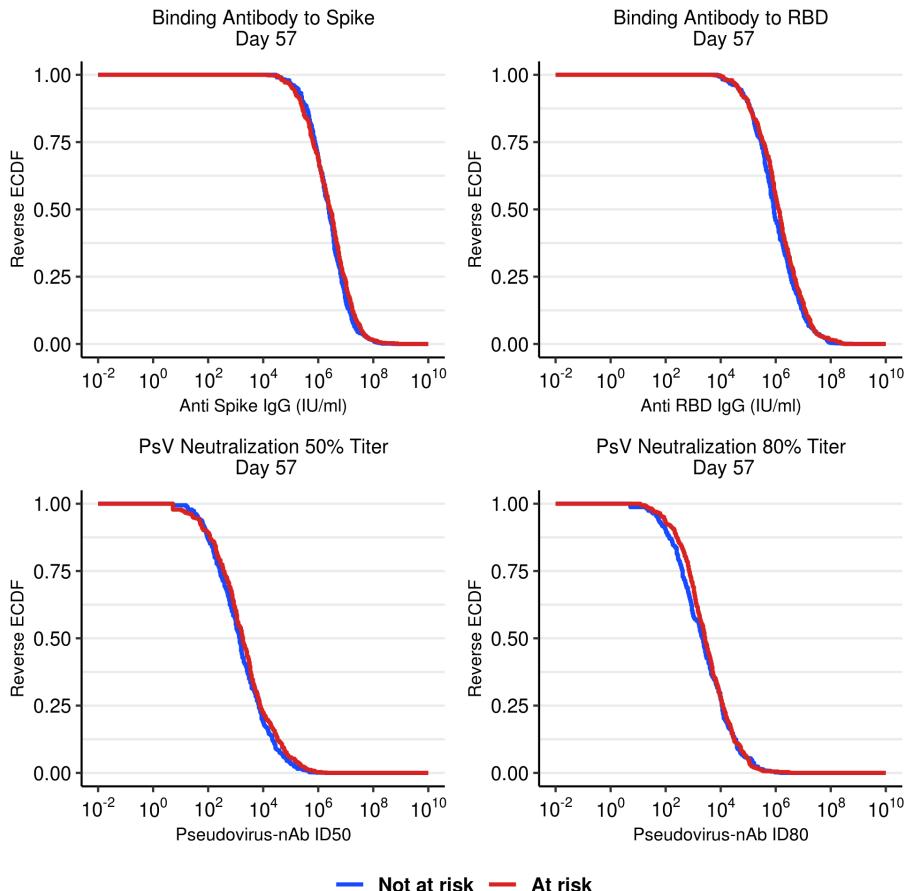


Figure 2.56: RCDF plots for D57 Ab markers: baseline negative vaccine arm by high-risk condition.

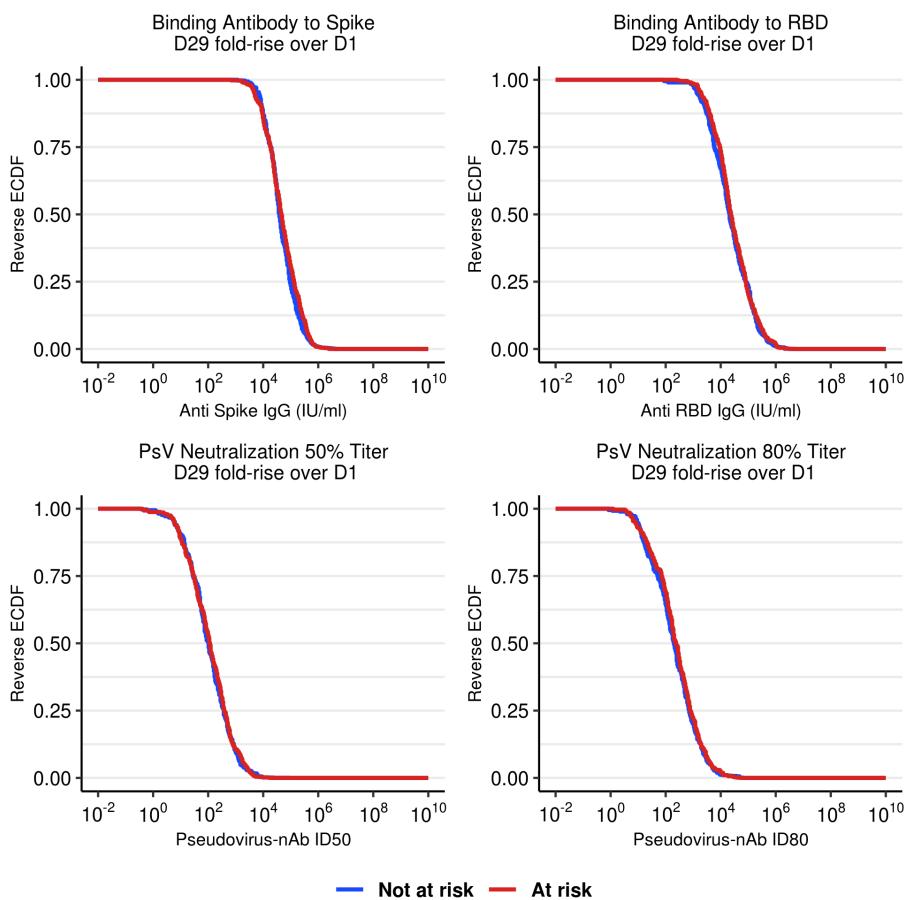


Figure 2.57: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by high-risk condition.

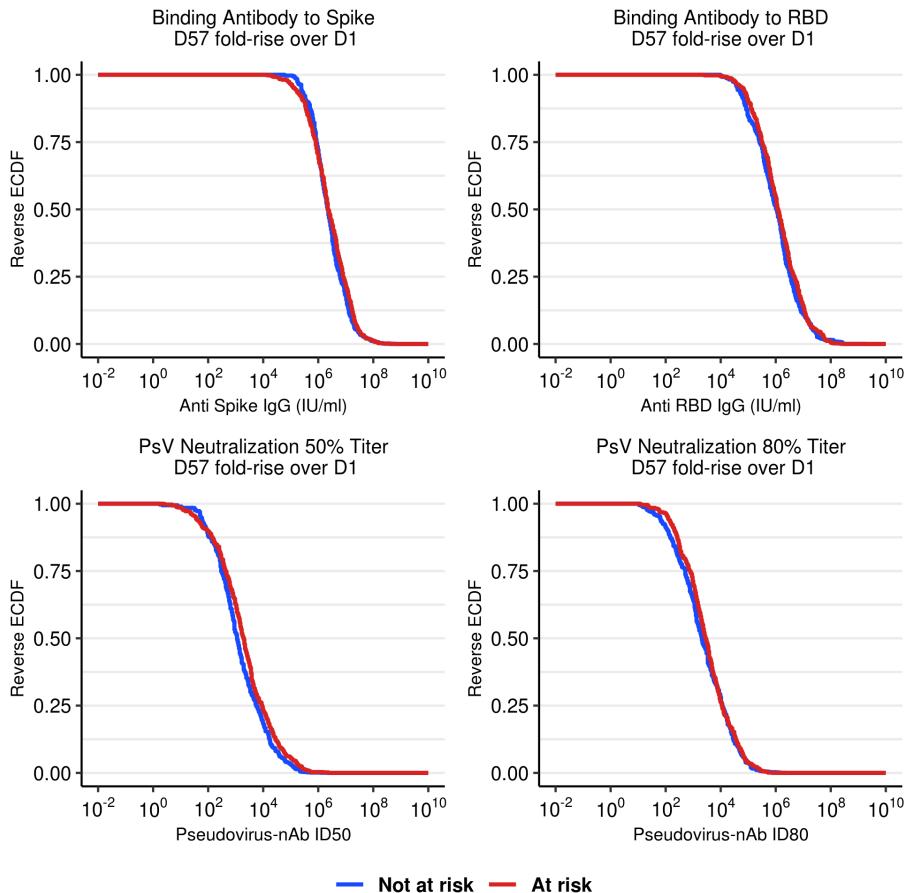


Figure 2.58: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by high-risk condition.

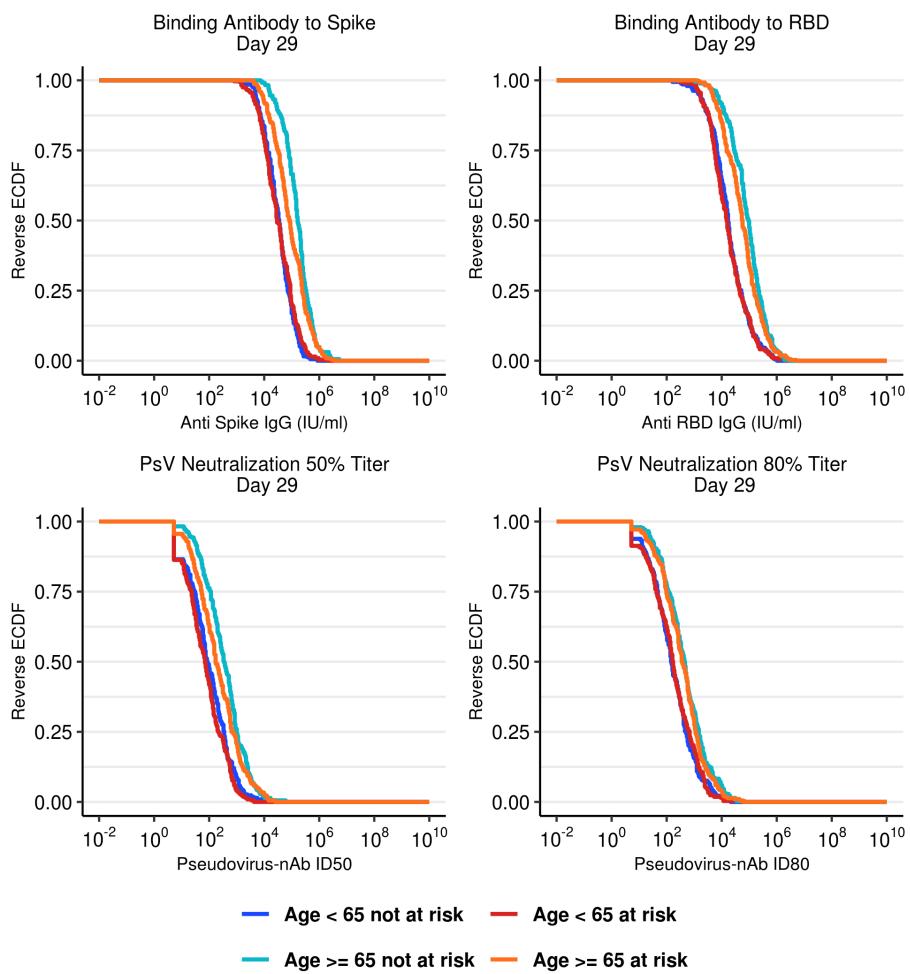


Figure 2.59: RCDF plots for D29 Ab markers: baseline negative vaccine arm by age and high-risk condition.

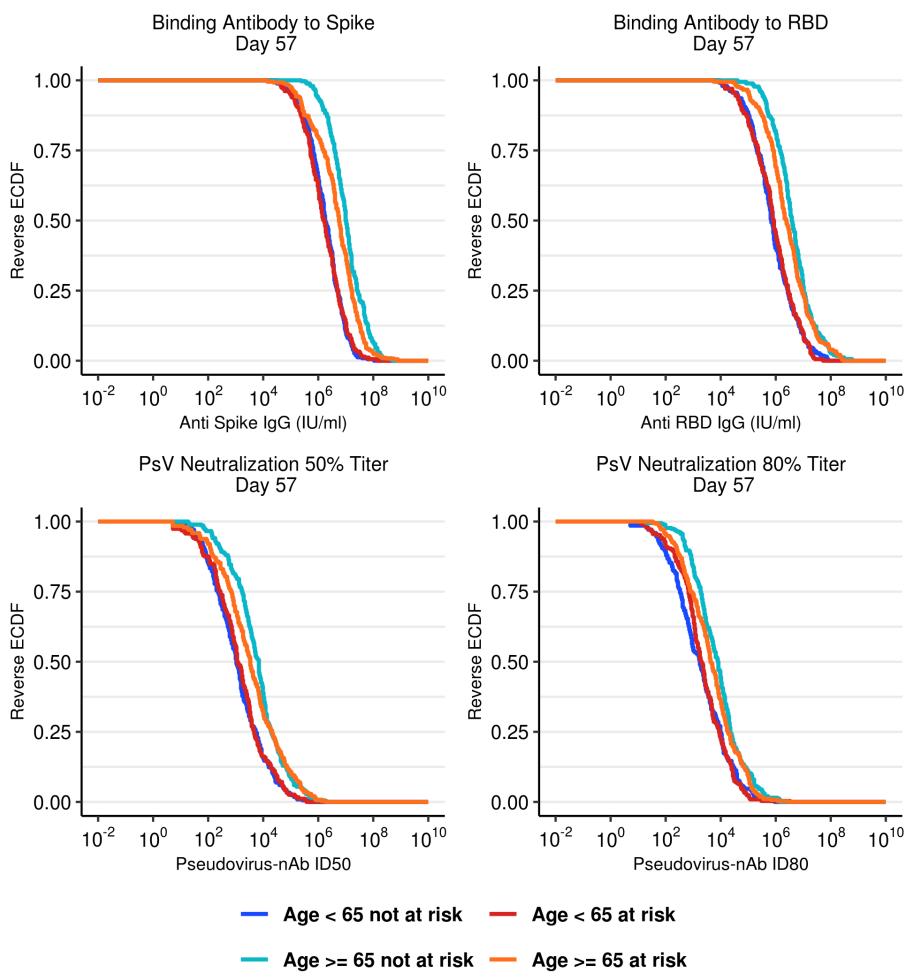


Figure 2.60: RCDF plots for D57 Ab markers: baseline negative vaccine arm by age and high-risk condition.

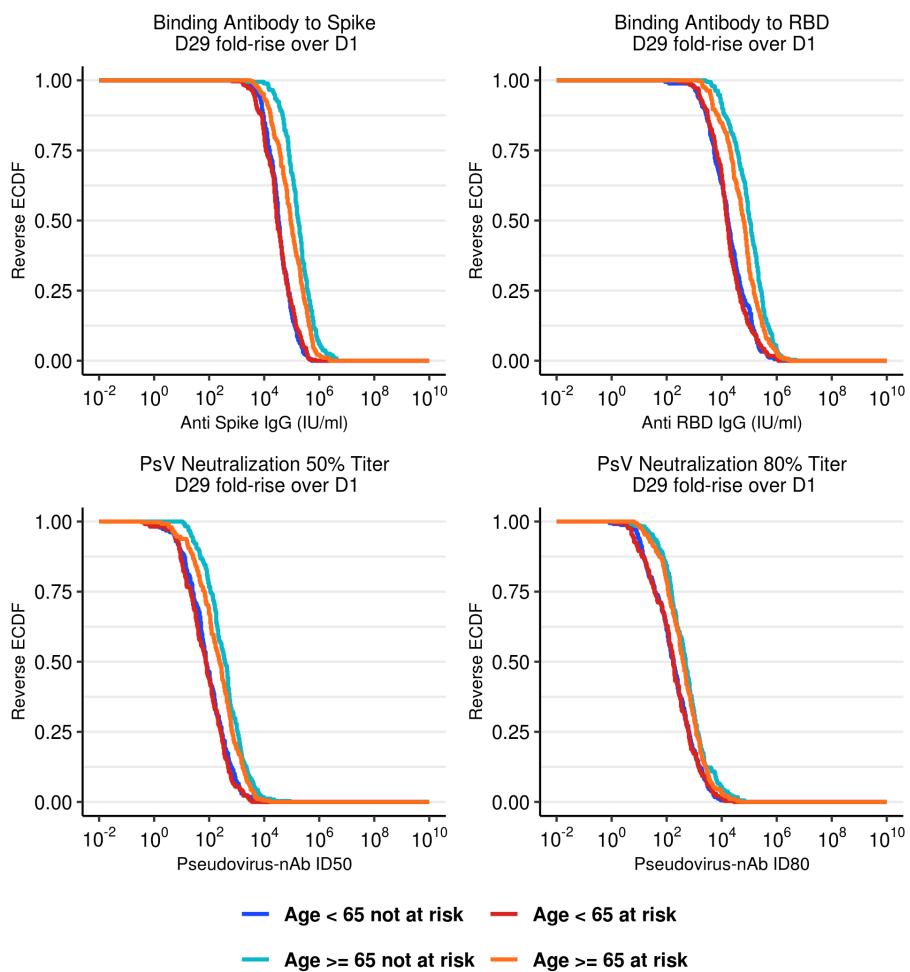


Figure 2.61: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and high-risk condition.

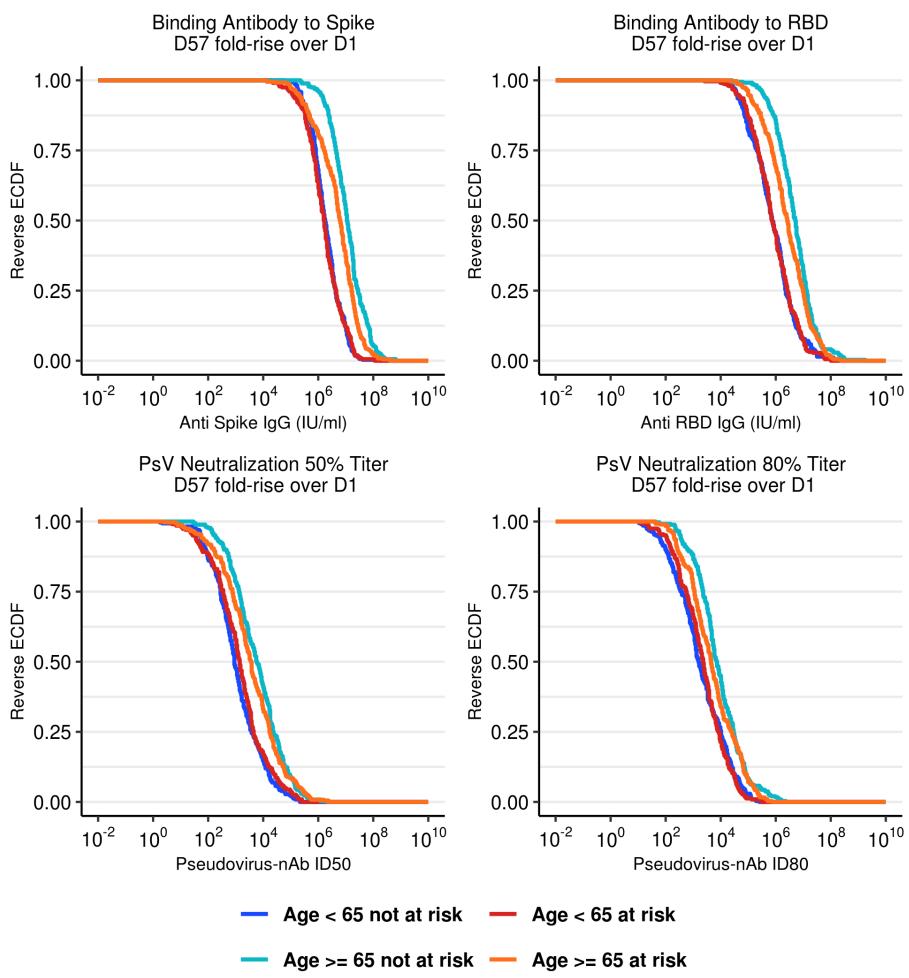


Figure 2.62: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and high-risk condition.

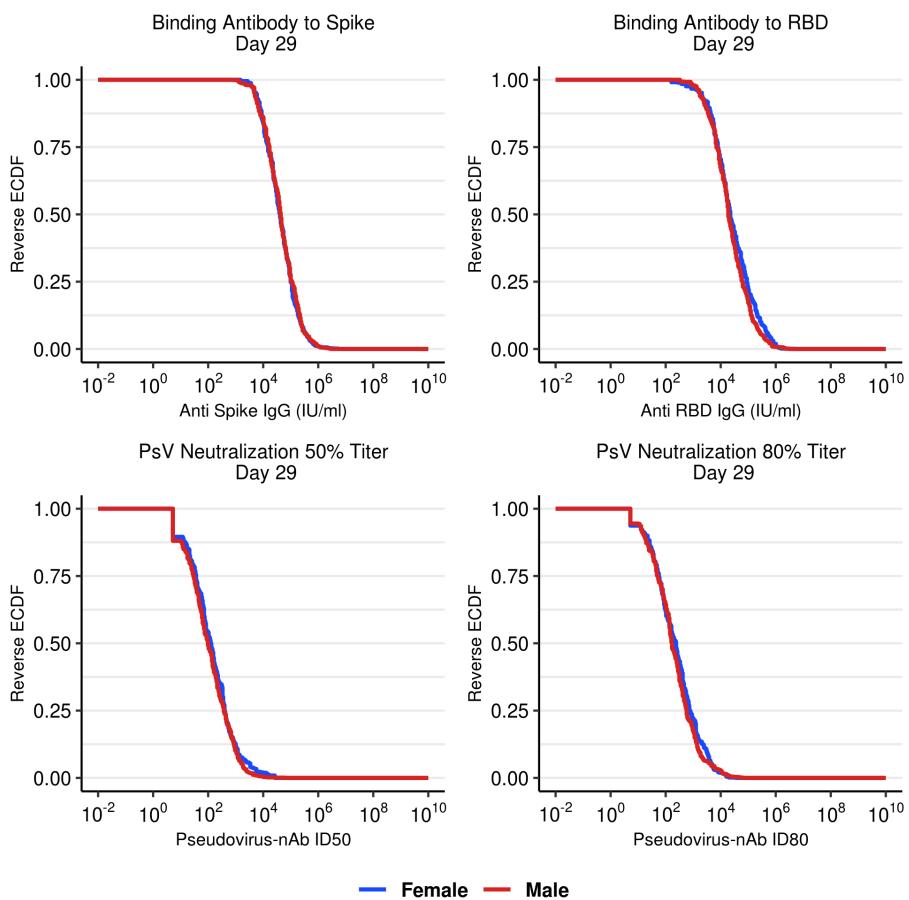


Figure 2.63: RCDF plots for D29 Ab markers: baseline negative vaccine arm by sex assigned at birth.

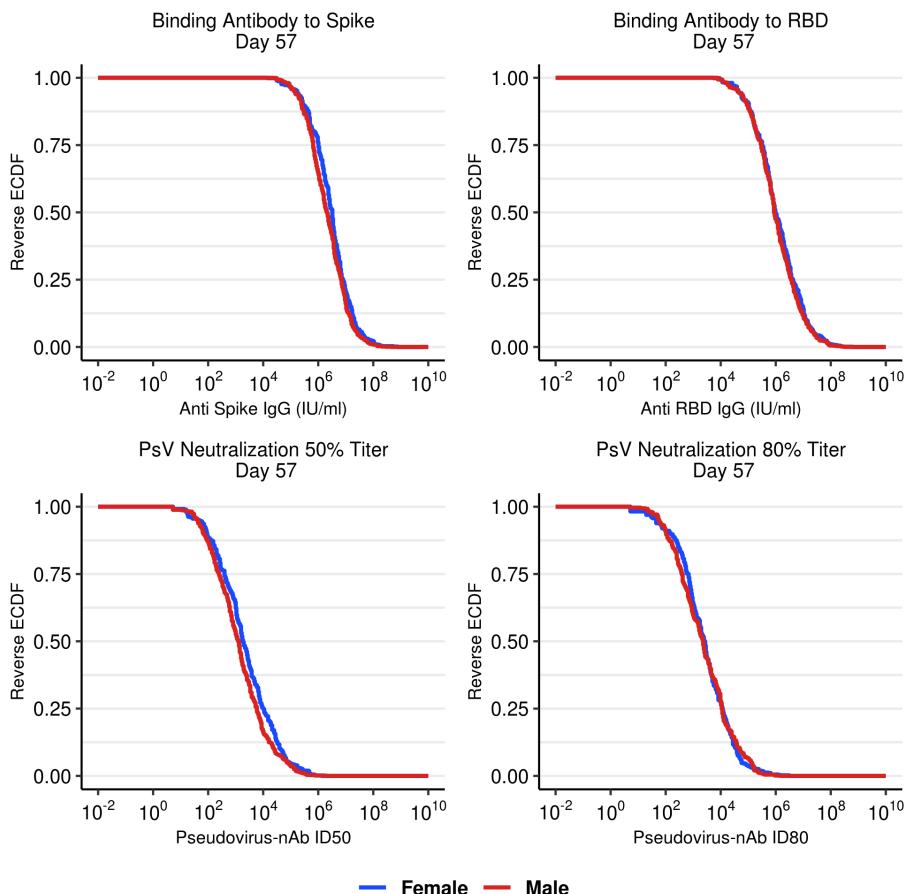


Figure 2.64: RCDF plots for D57 Ab markers: baseline negative vaccine arm by sex assigned at birth.

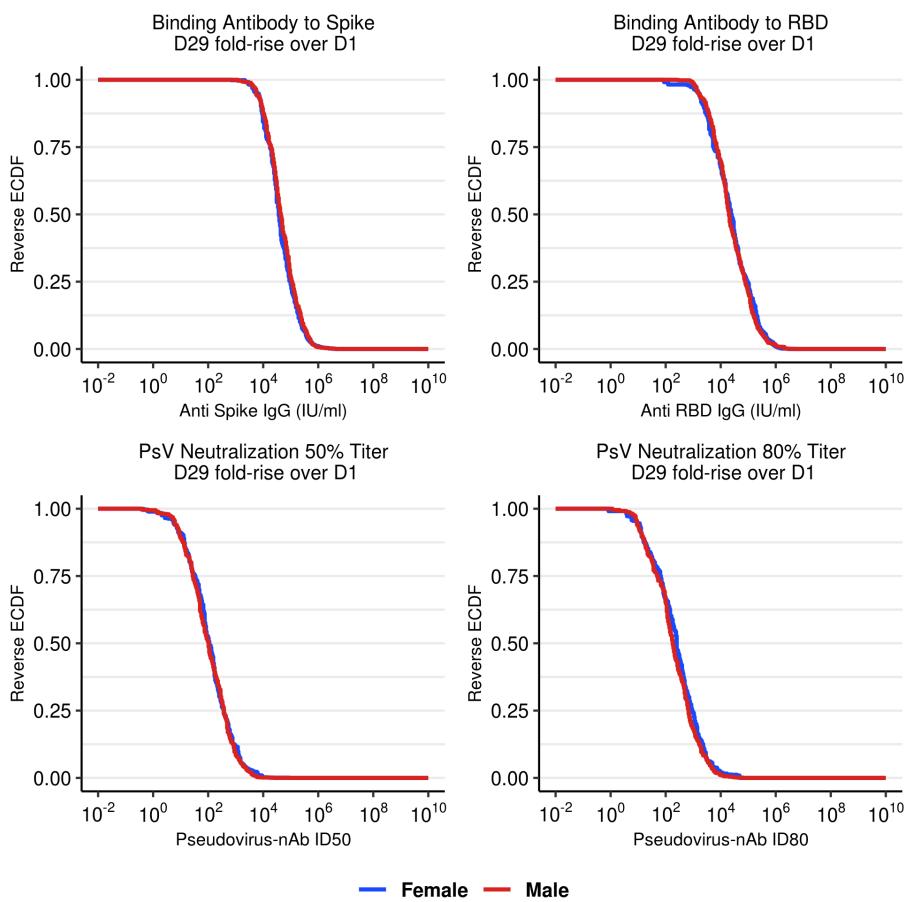


Figure 2.65: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by sex assigned at birth.

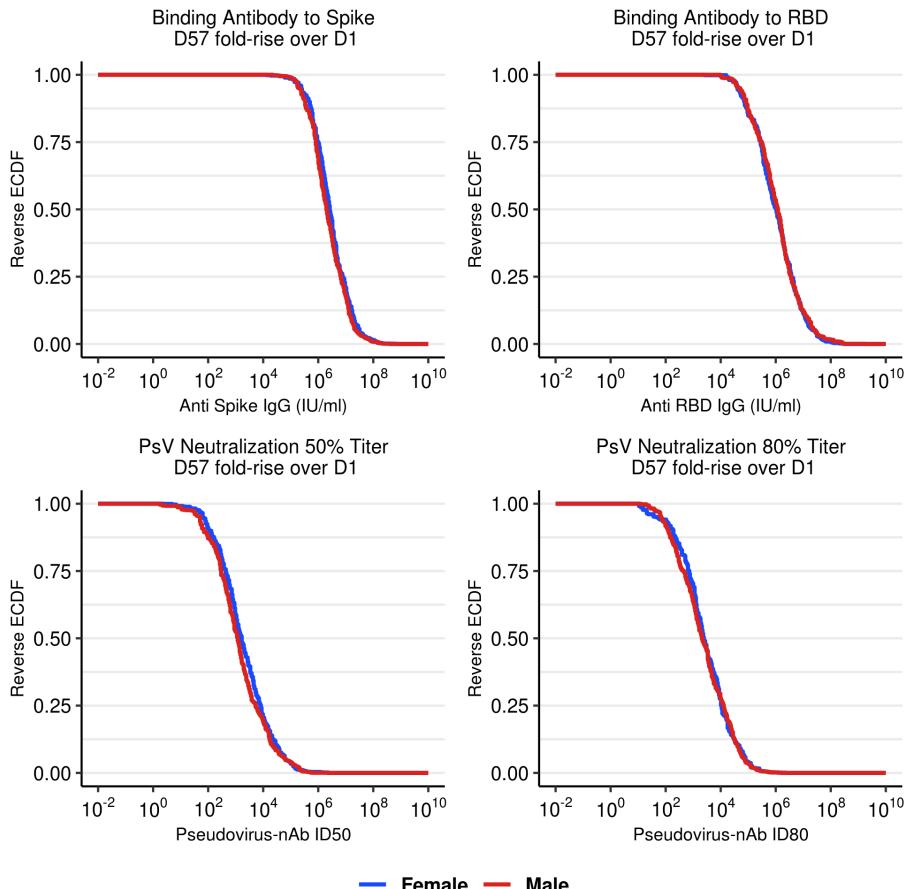


Figure 2.66: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by sex assigned at birth.

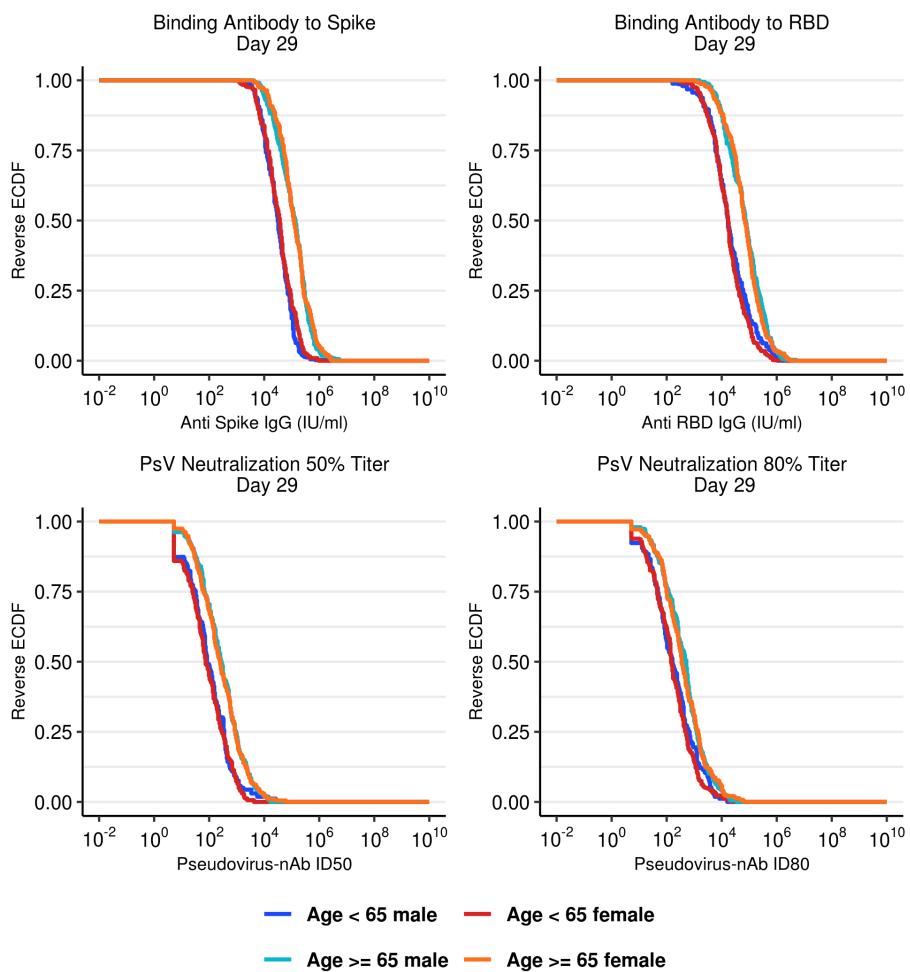


Figure 2.67: RCDF plots for D29 Ab markers: baseline negative vaccine arm by age and sex assigned at birth.

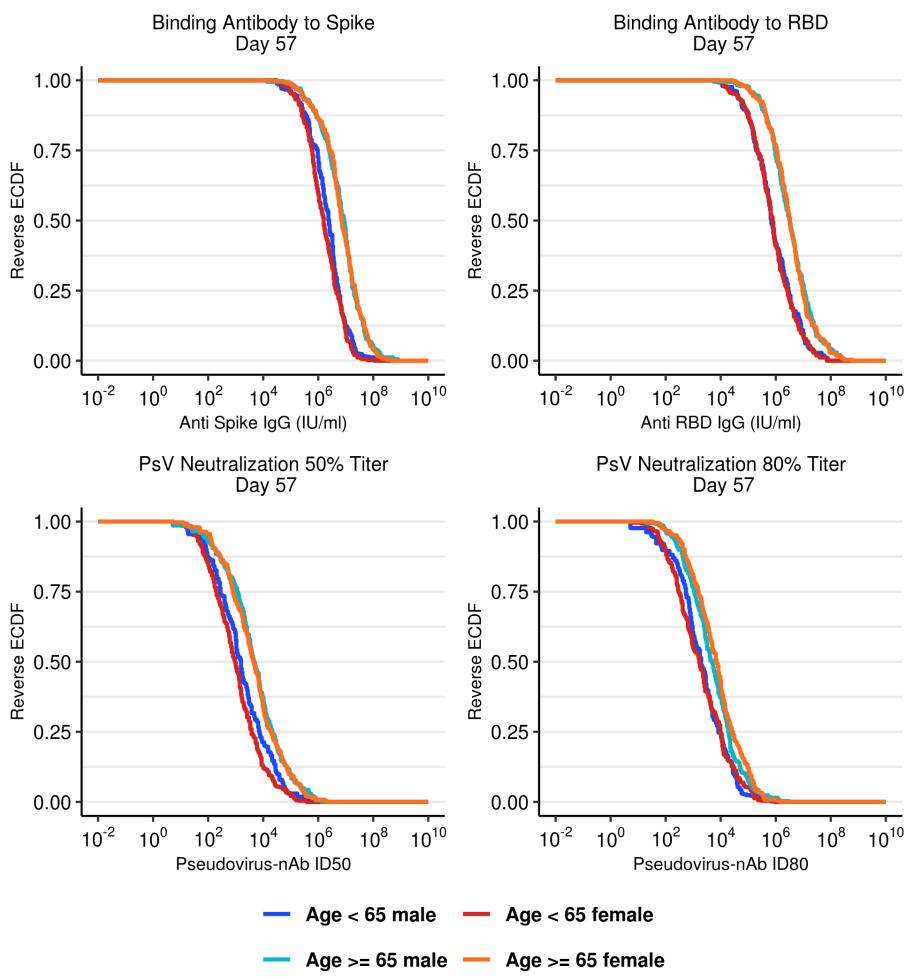


Figure 2.68: RCDF plots for D57 Ab markers: baseline negative vaccine arm by age and sex assigned at birth.

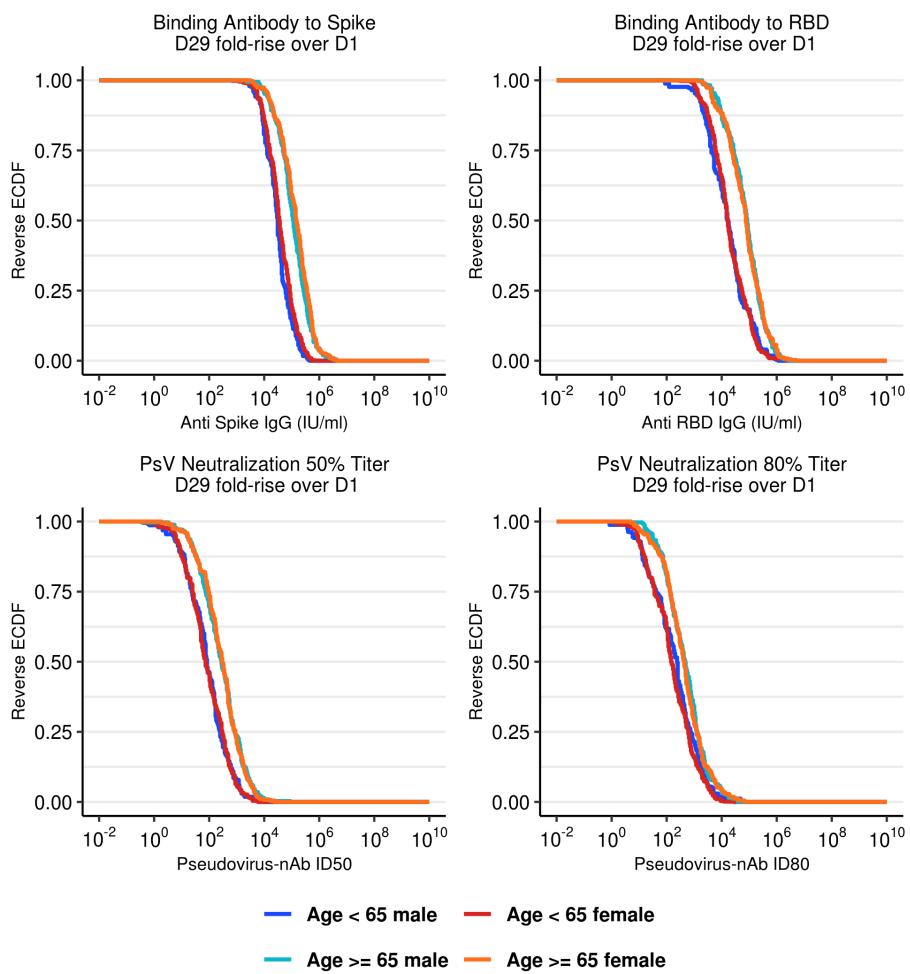


Figure 2.69: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and sex assigned at birth.

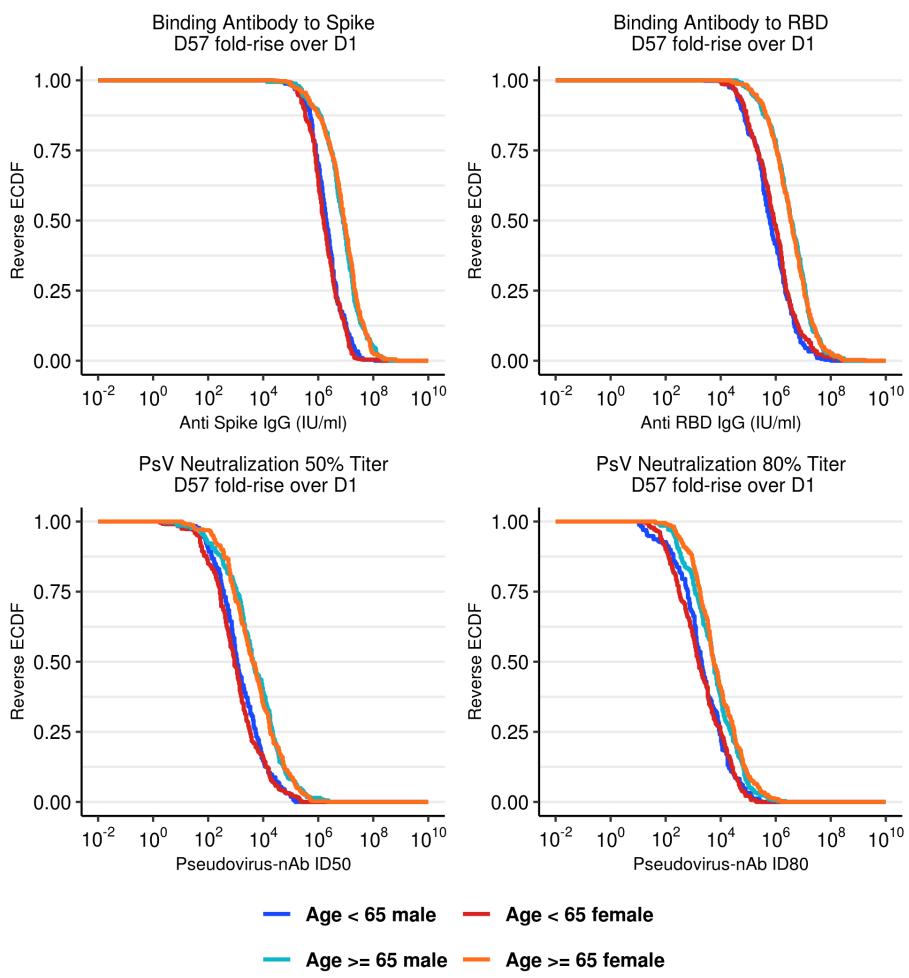


Figure 2.70: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and sex at birth.

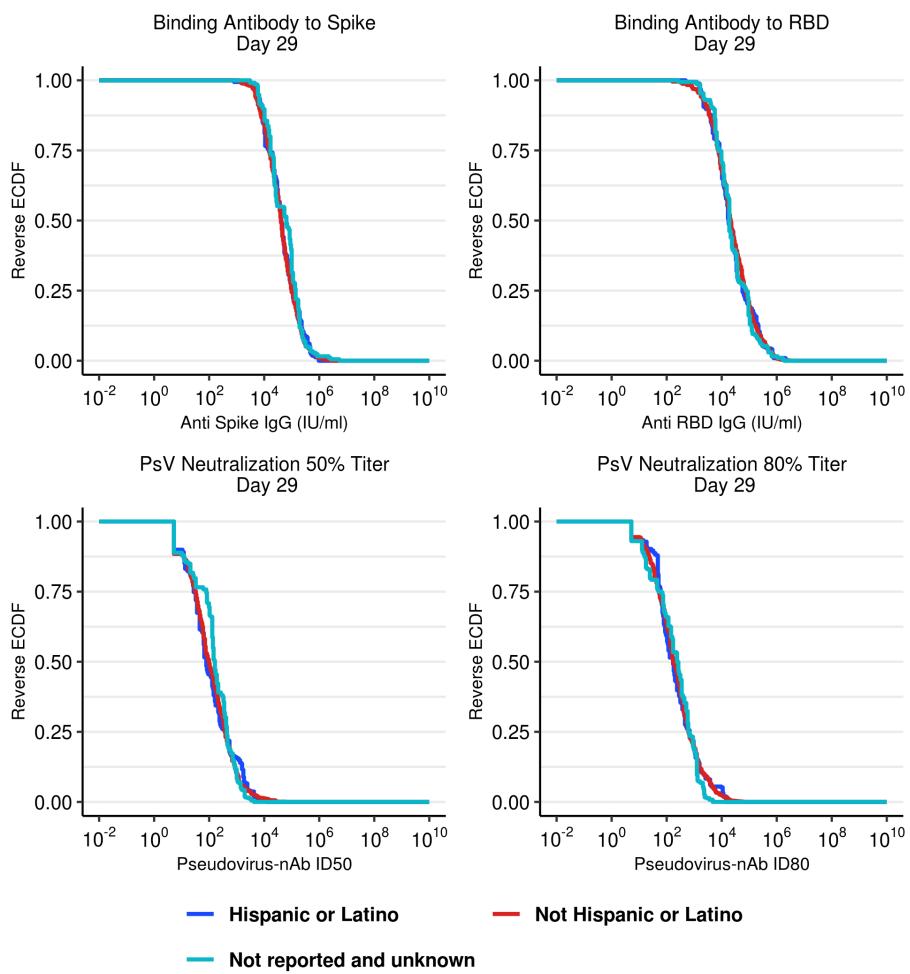


Figure 2.71: RCDF plots for D29 Ab markers: baseline negative vaccine arm by ethnicity.

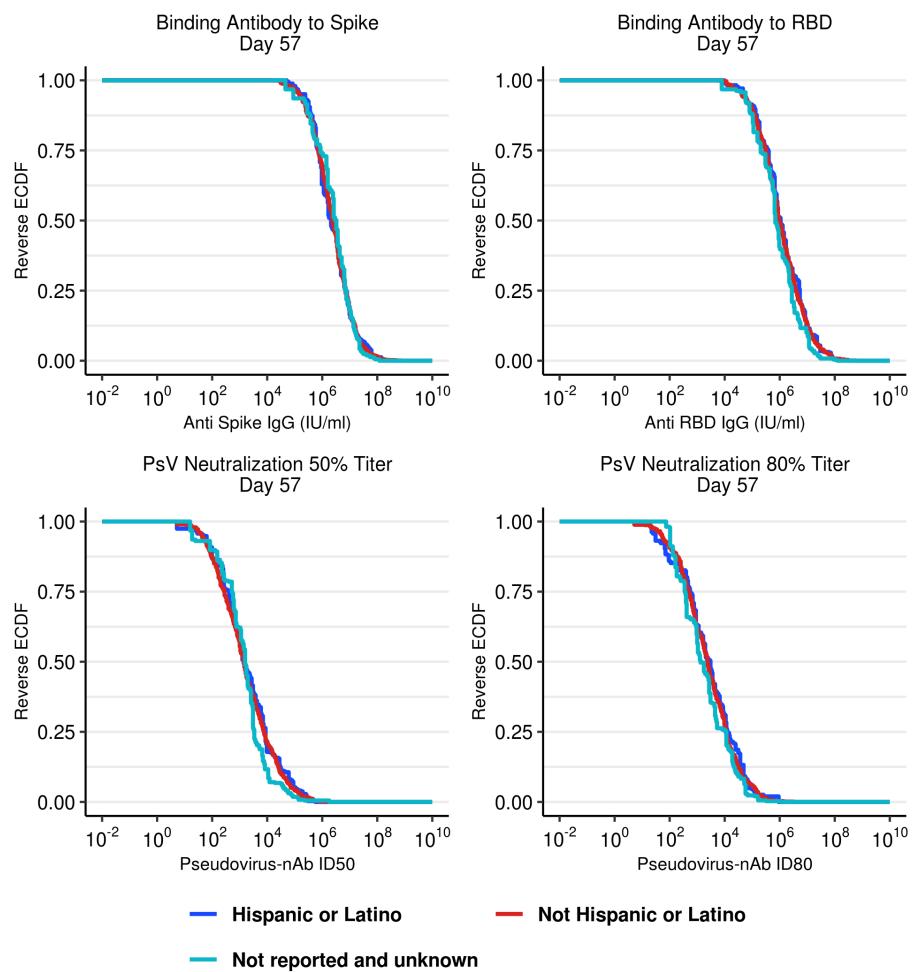


Figure 2.72: RCDF plots for D57 Ab markers: baseline negative vaccine arm by ethnicity.

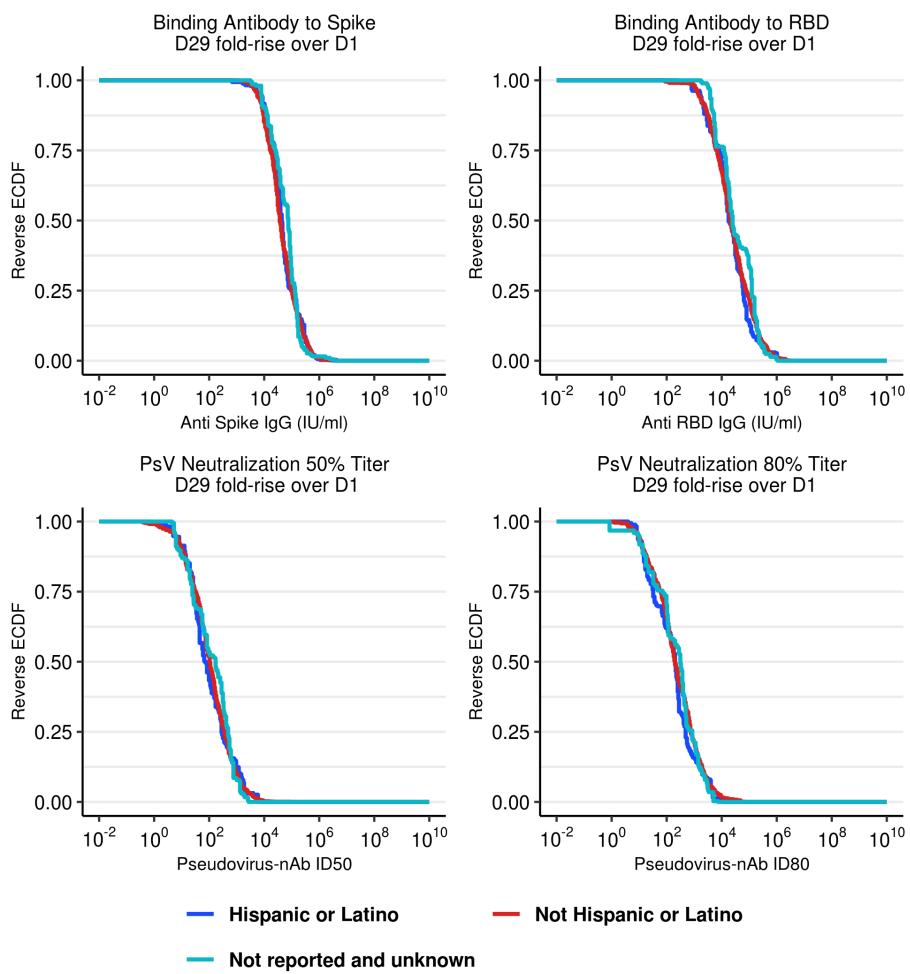


Figure 2.73: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by ethnicity.

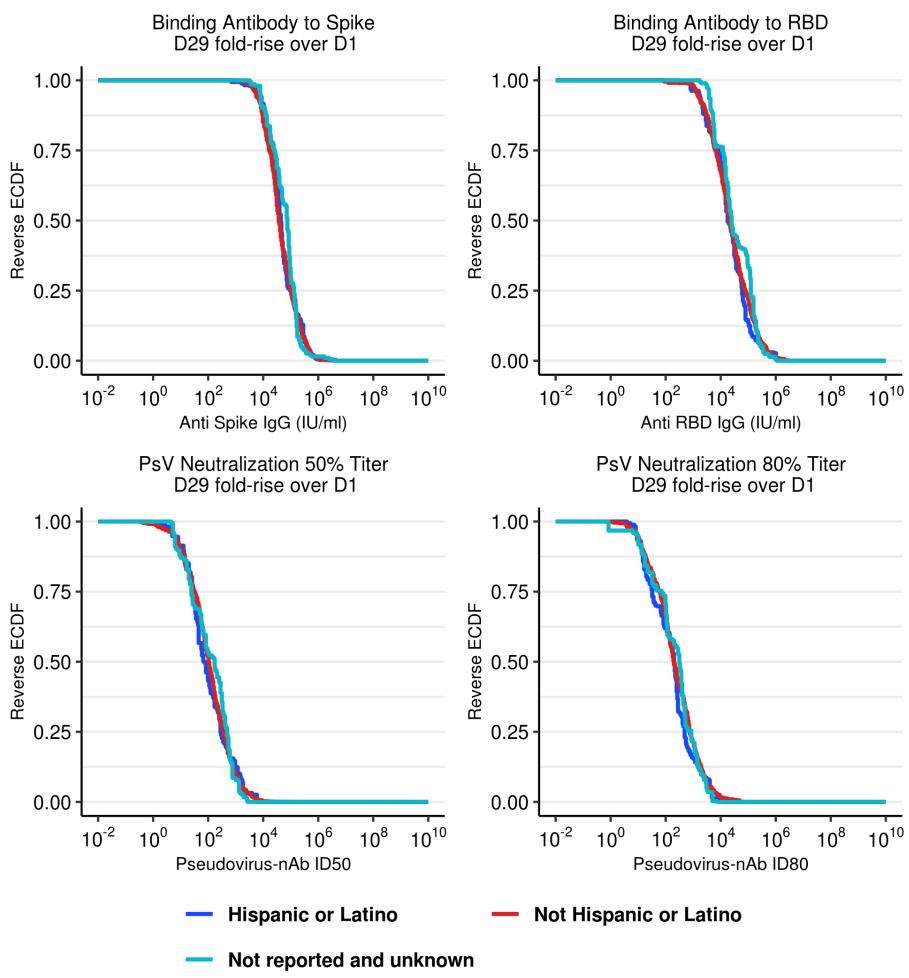


Figure 2.74: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by ethnicity.

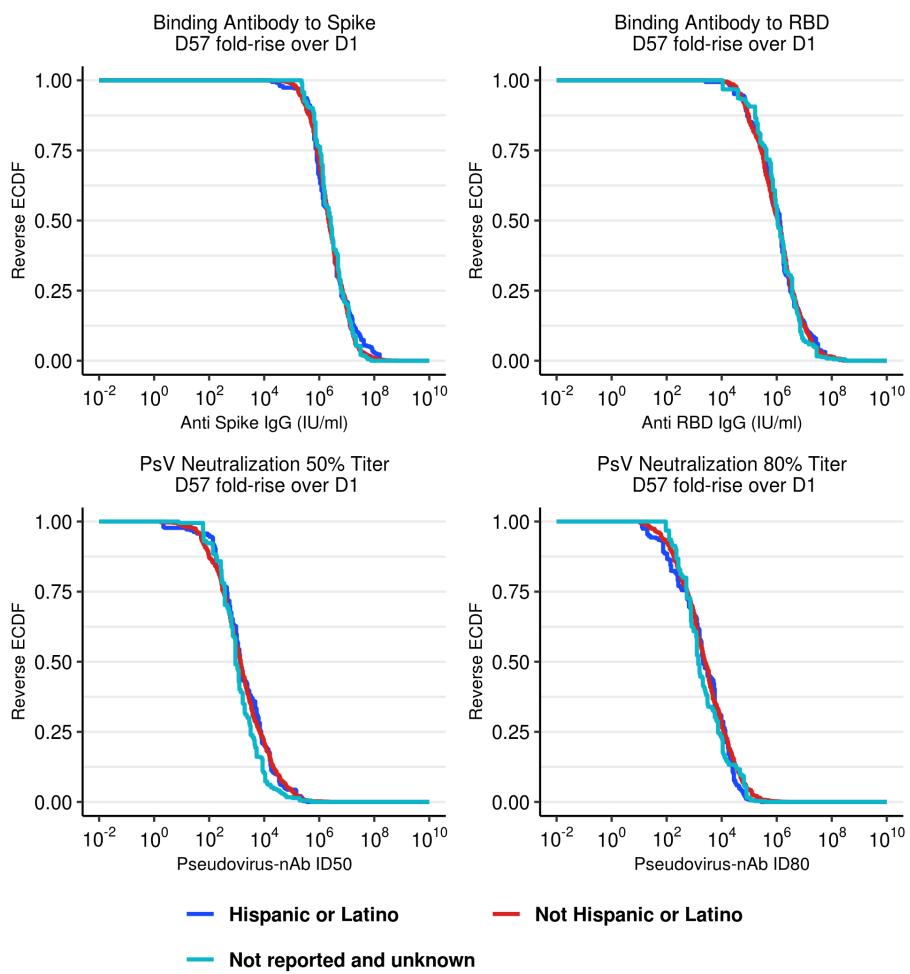


Figure 2.75: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by ethnicity.

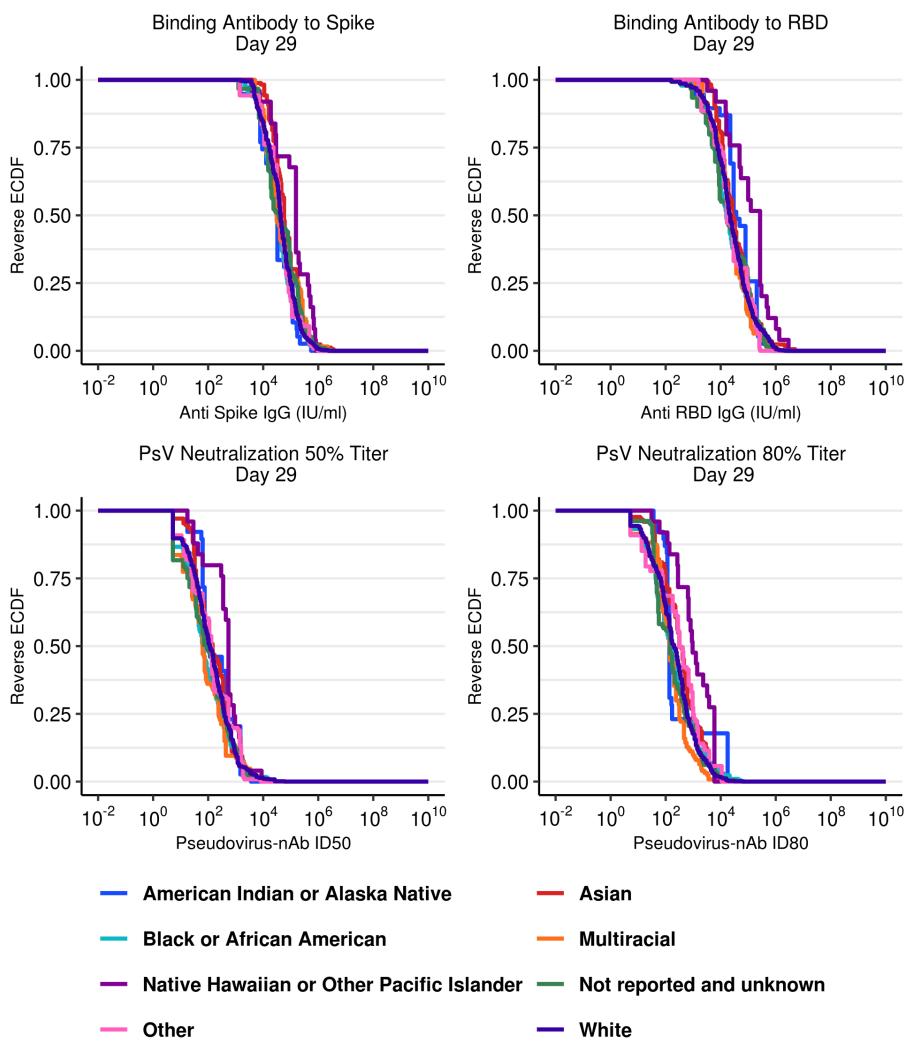


Figure 2.76: RCDF plots for D29 Ab markers: baseline negative vaccine arm by race.

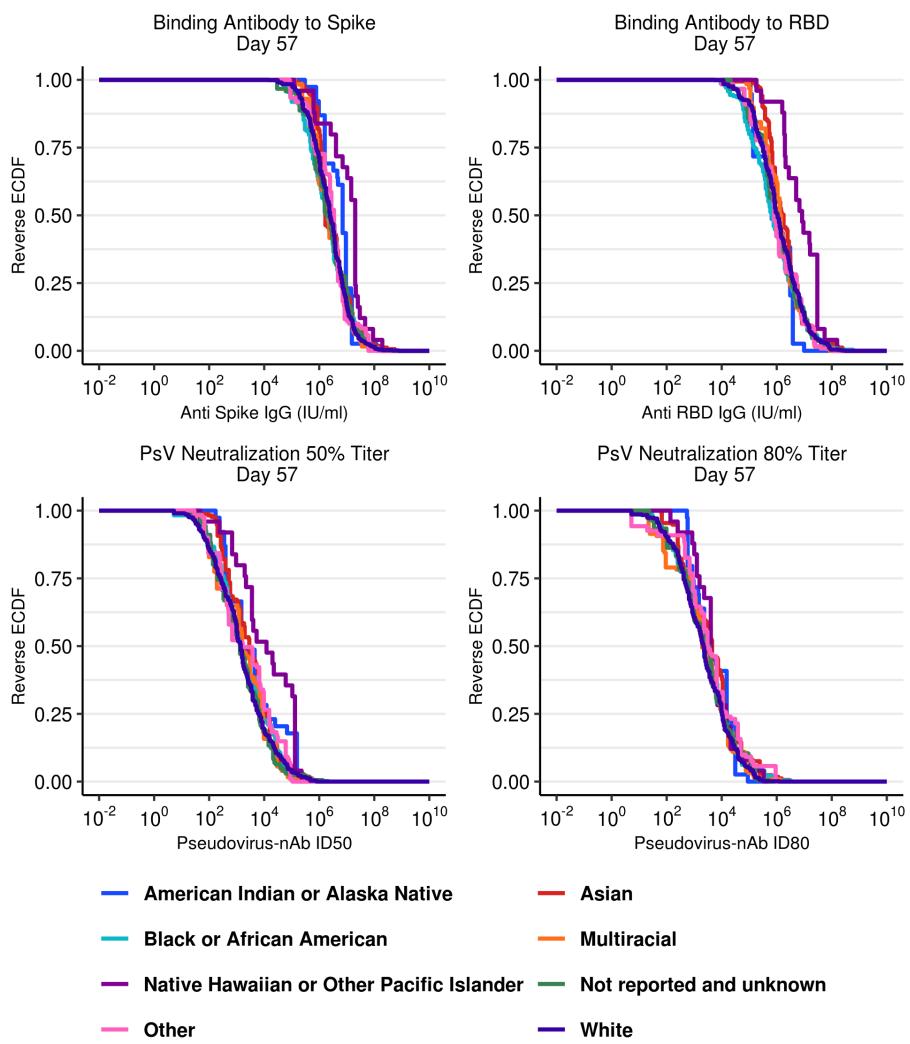


Figure 2.77: RCDF plots for D57 Ab markers: baseline negative vaccine arm by race.

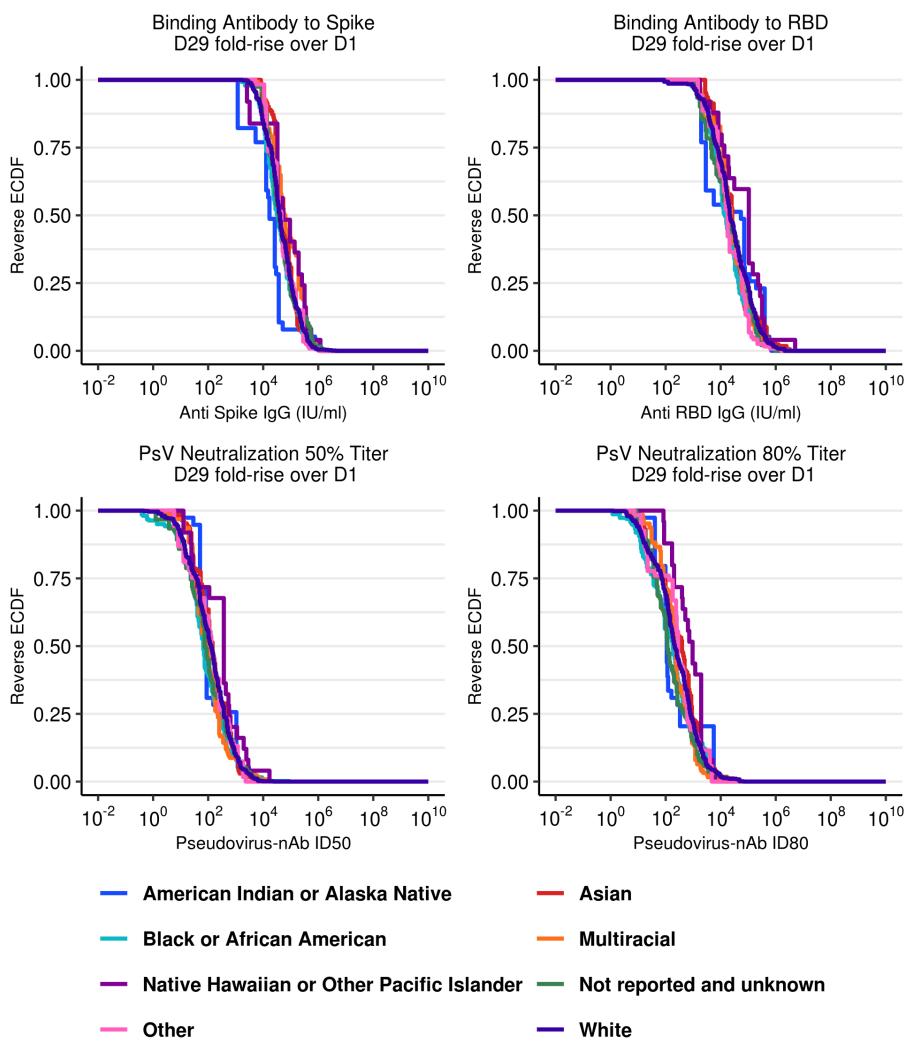


Figure 2.78: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by race.

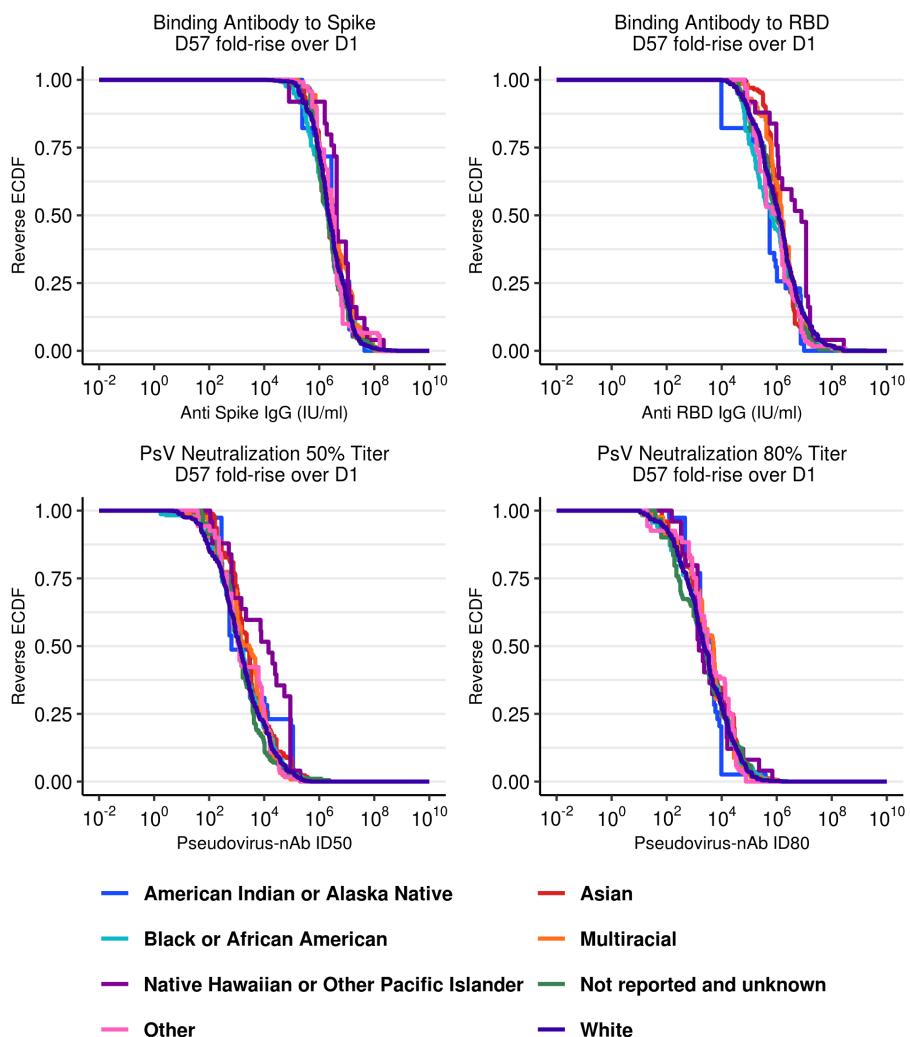


Figure 2.79: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by race.

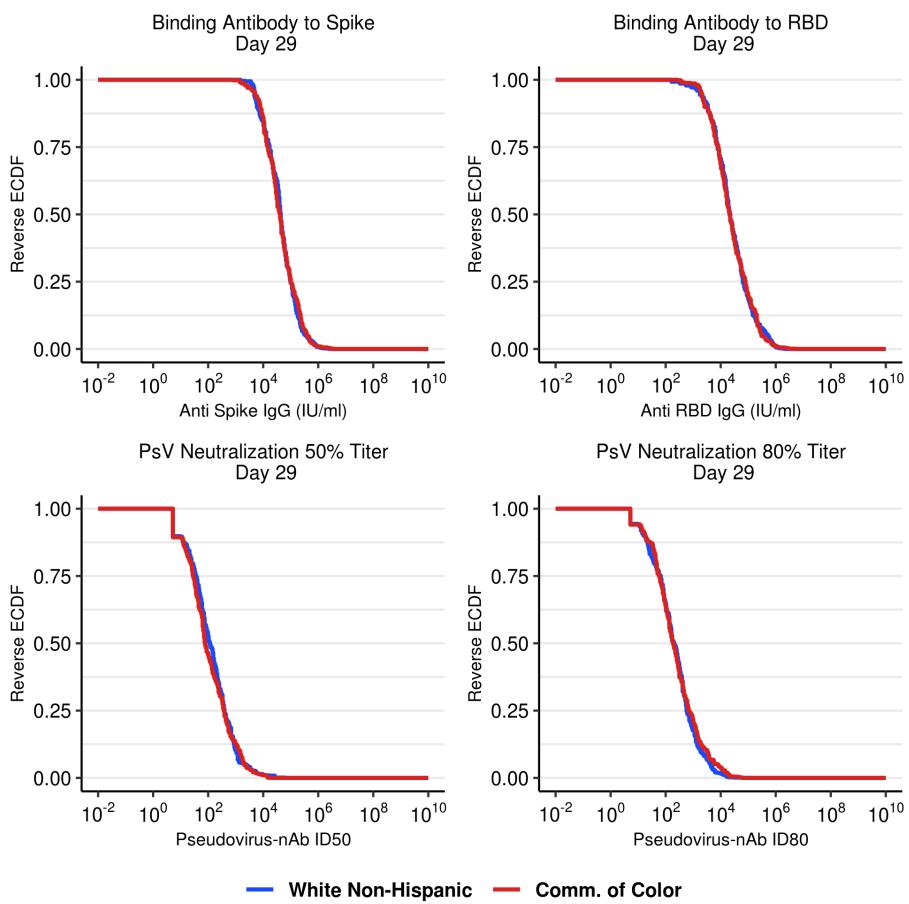


Figure 2.80: RCDF plots for D29 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group.

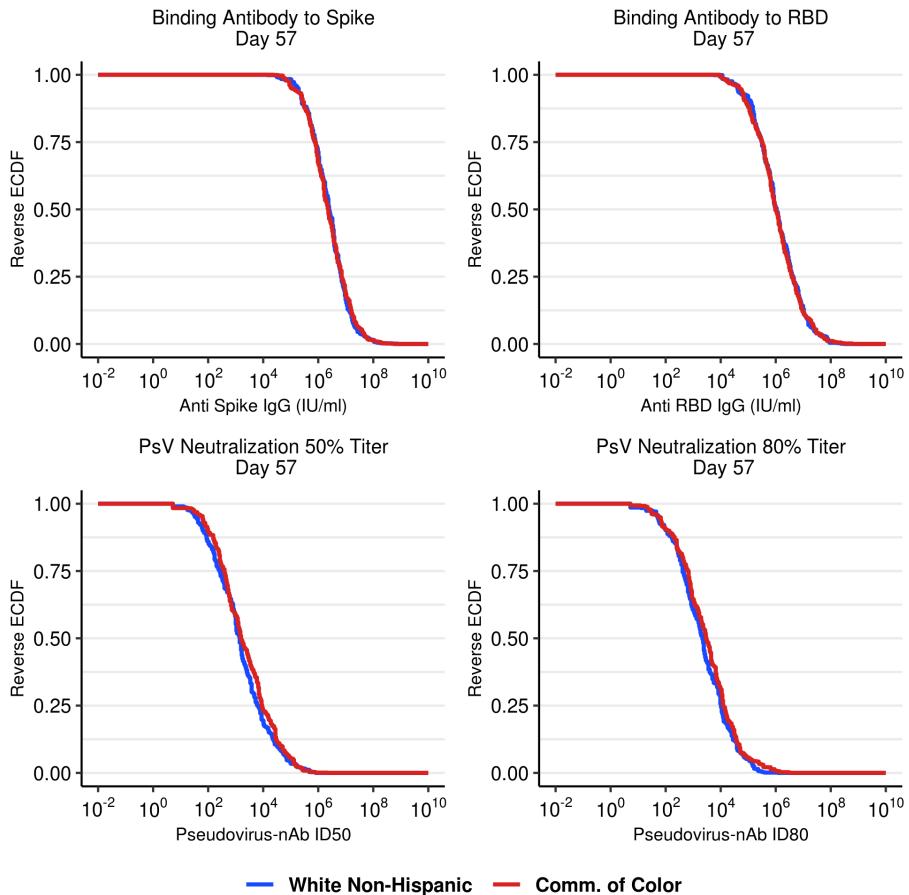


Figure 2.81: RCDF plots for D57 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group.

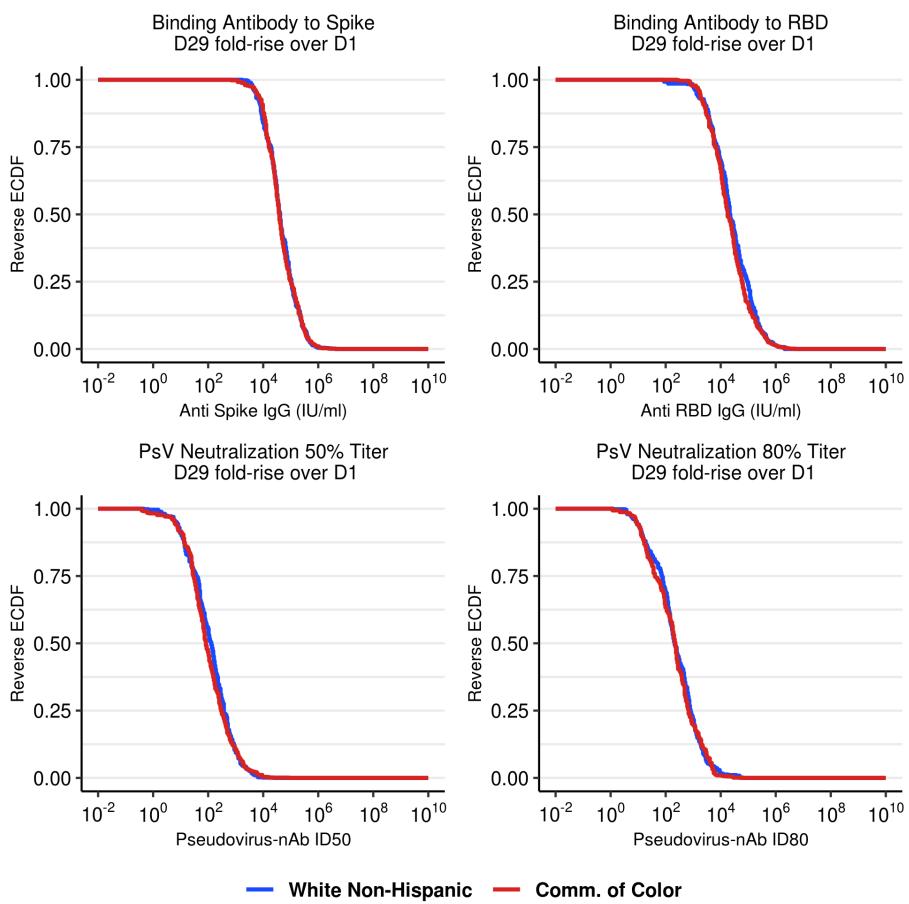


Figure 2.82: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group.

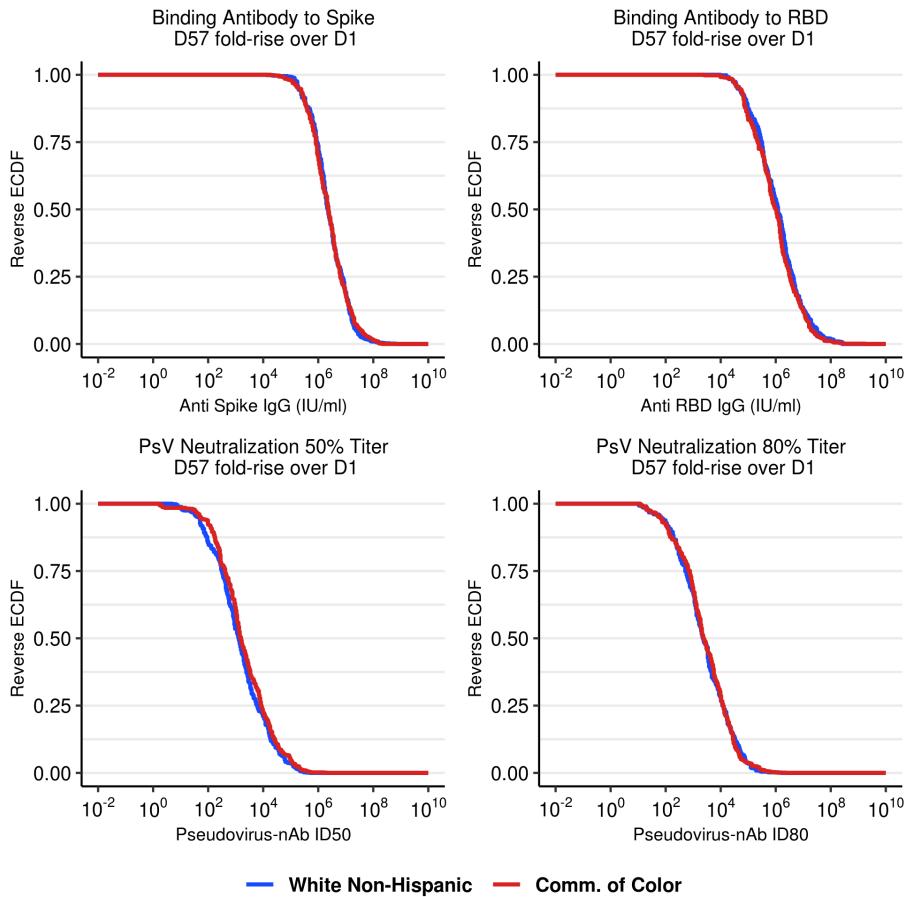


Figure 2.83: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by dichotomous classification of race and ethnic group.

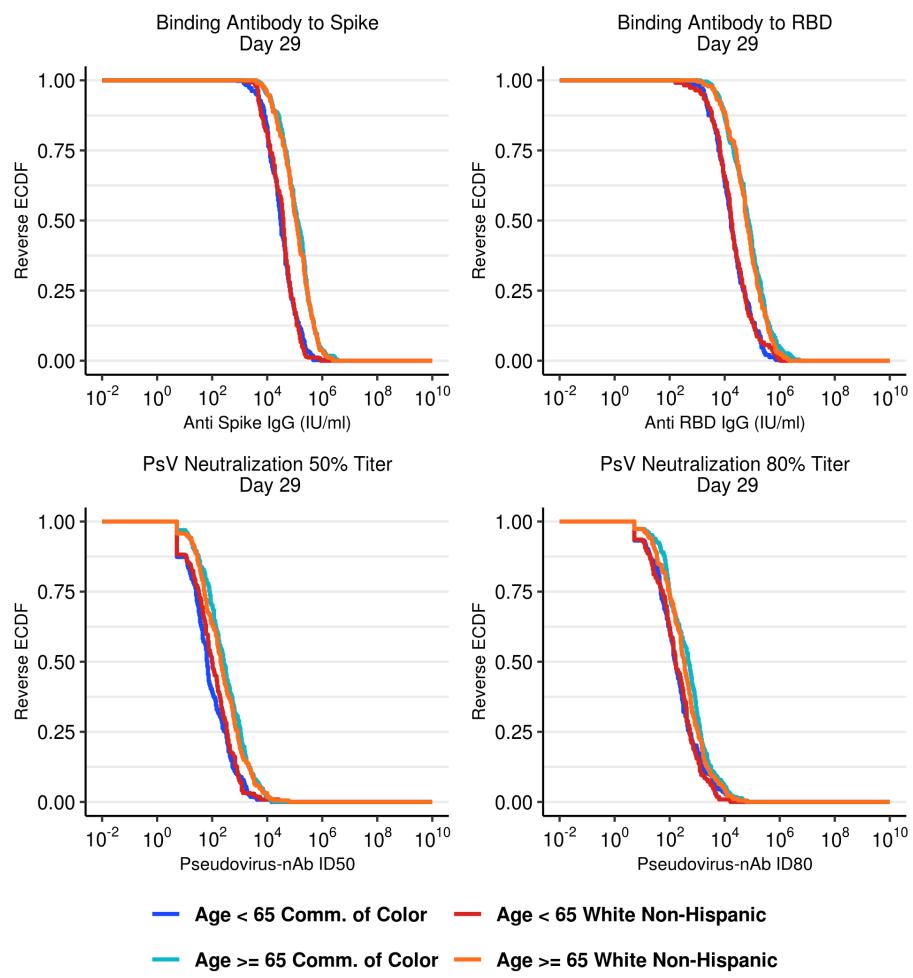


Figure 2.84: RCDF plots for D29 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group.

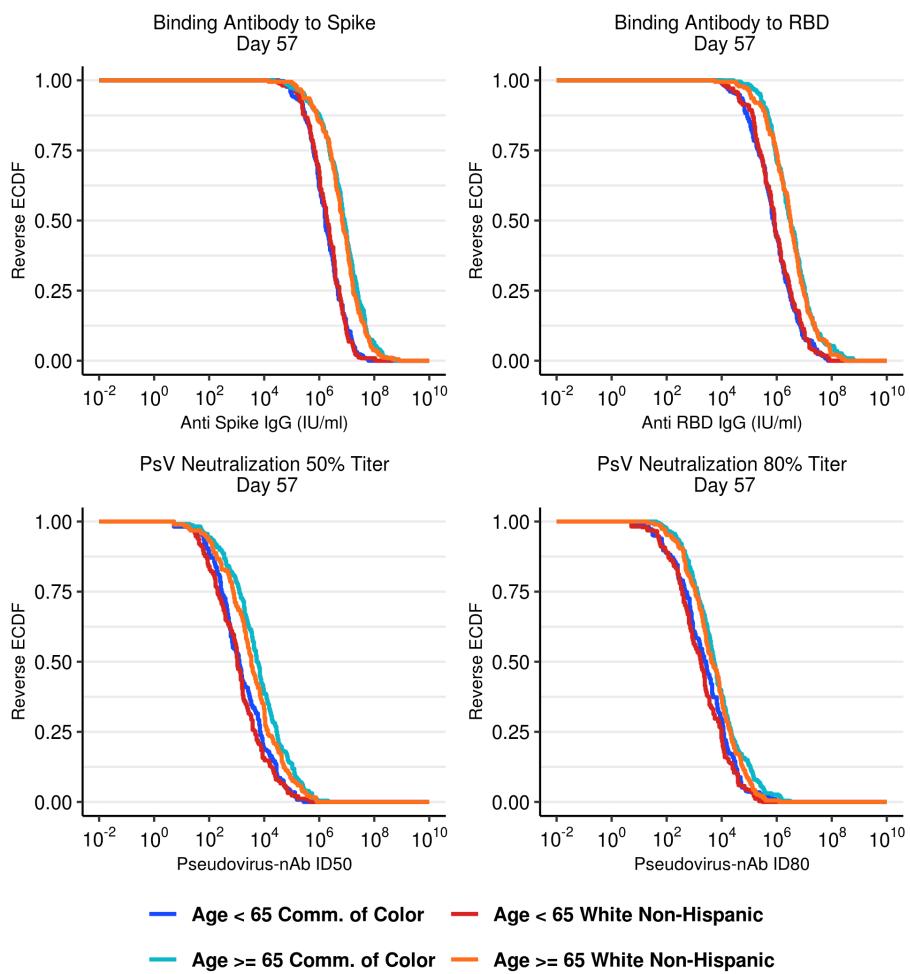


Figure 2.85: RCDF plots for D57 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group.

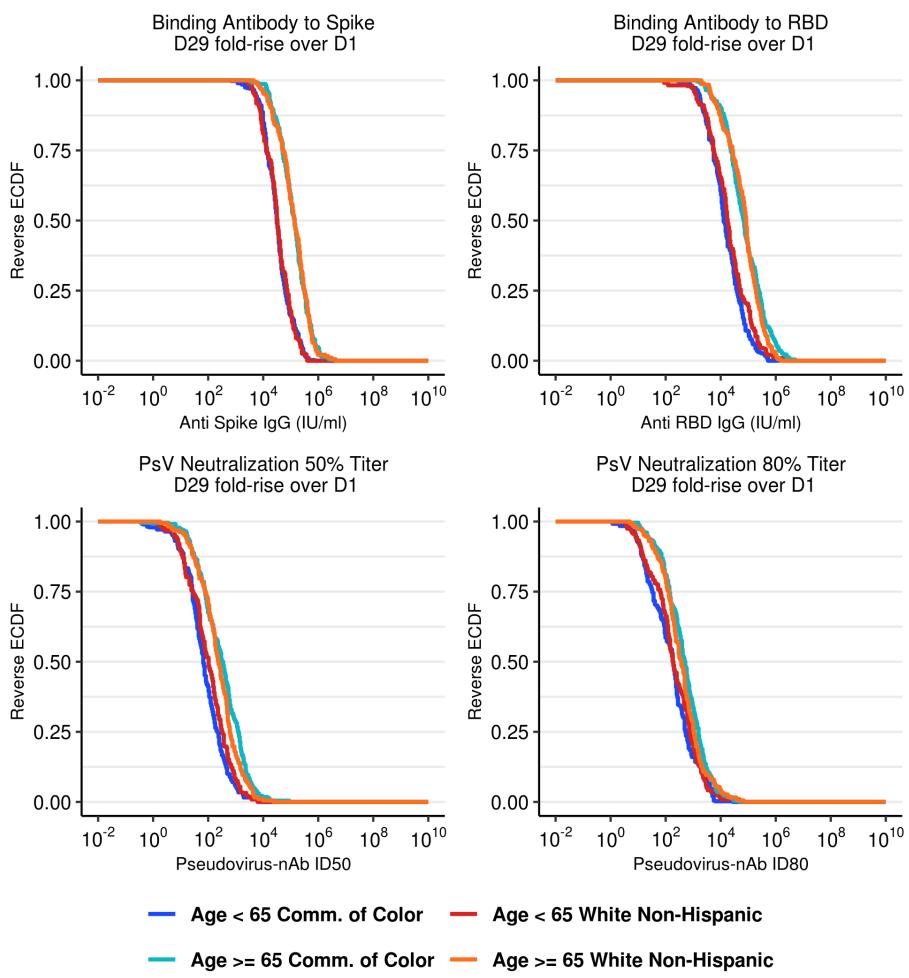


Figure 2.86: RCDF plots for D29 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group.

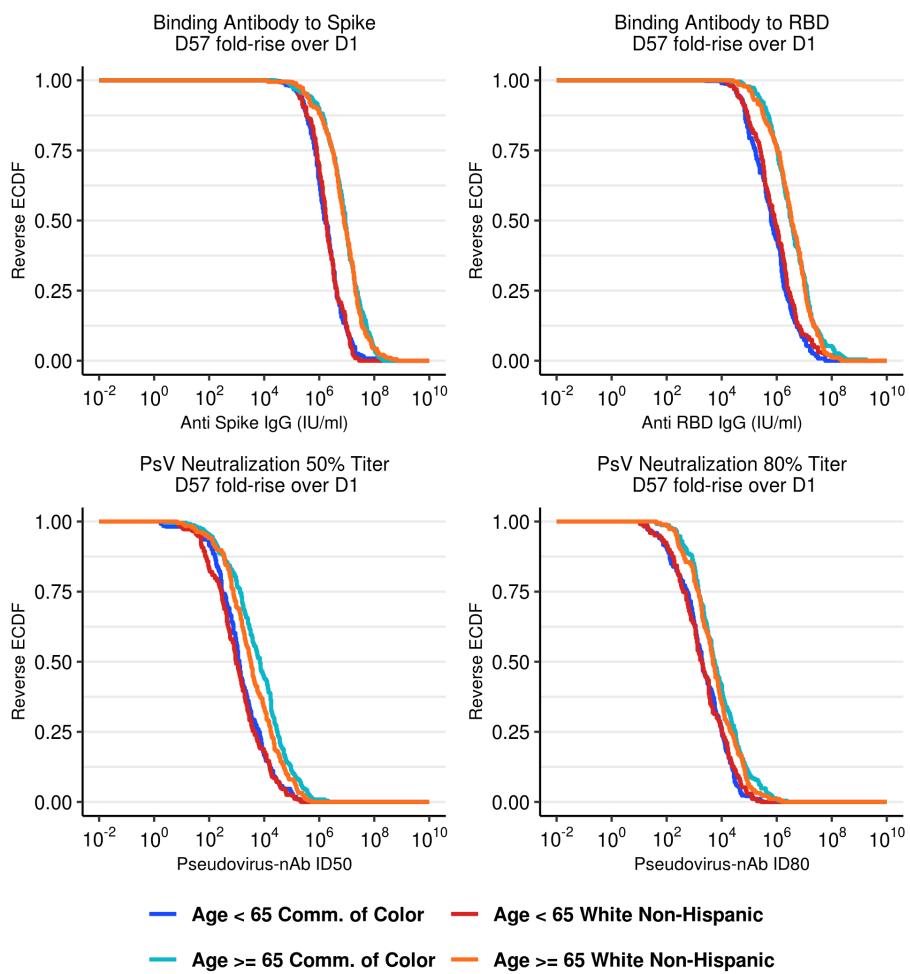


Figure 2.87: RCDF plots for D57 fold-rise over D1 Ab markers: baseline negative vaccine arm by age and dichotomous classification of race and ethnic group.

## 2.6.2 Baseline SARS-CoV-2 positive

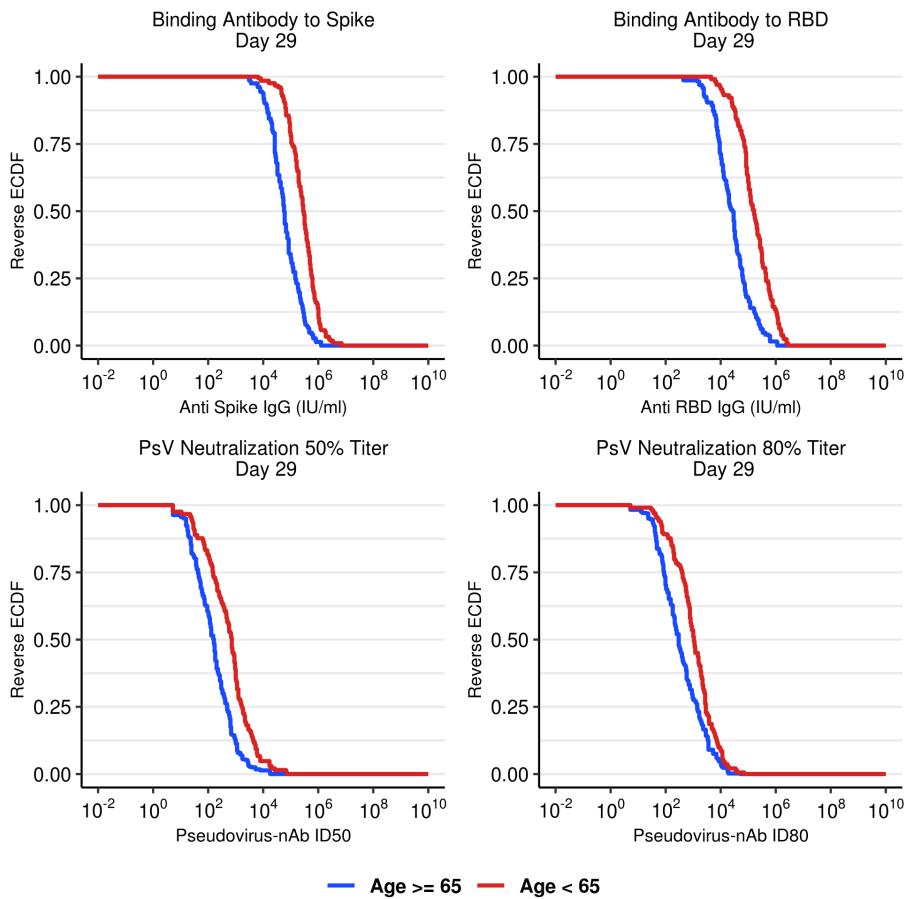


Figure 2.88: RCDF plots for D29 Ab markers: baseline positive vaccine arm by age groups.

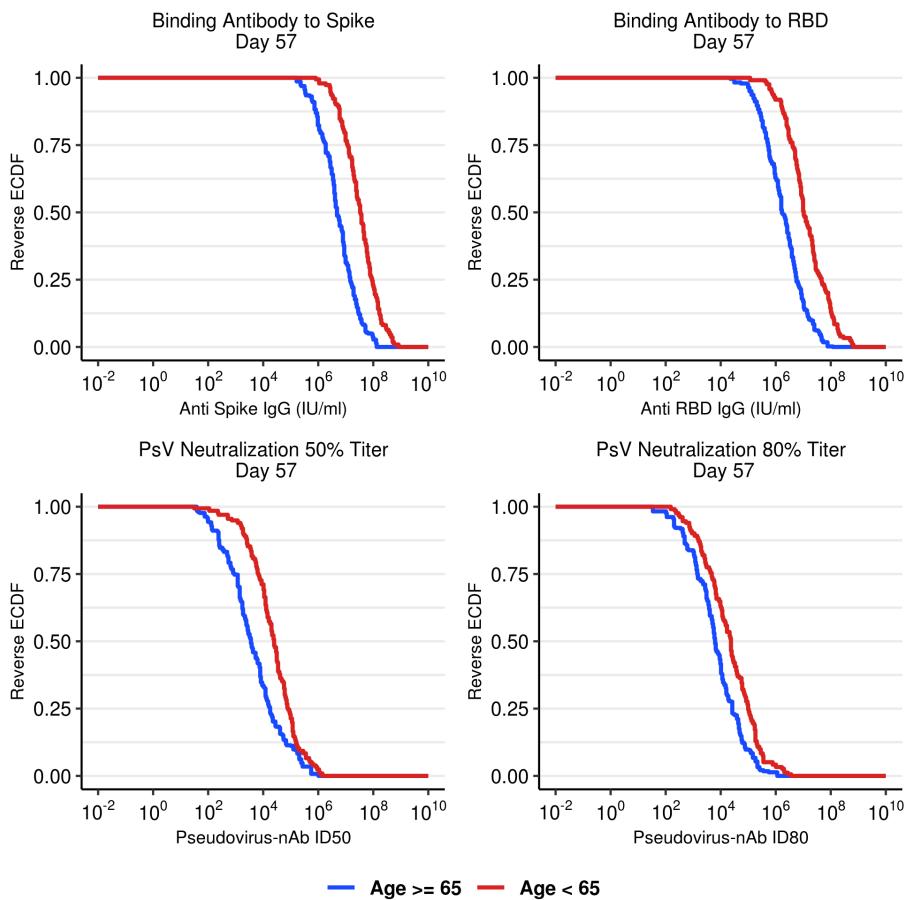


Figure 2.89: RCDF plots for D57 Ab markers: baseline positive vaccine arm by age groups.

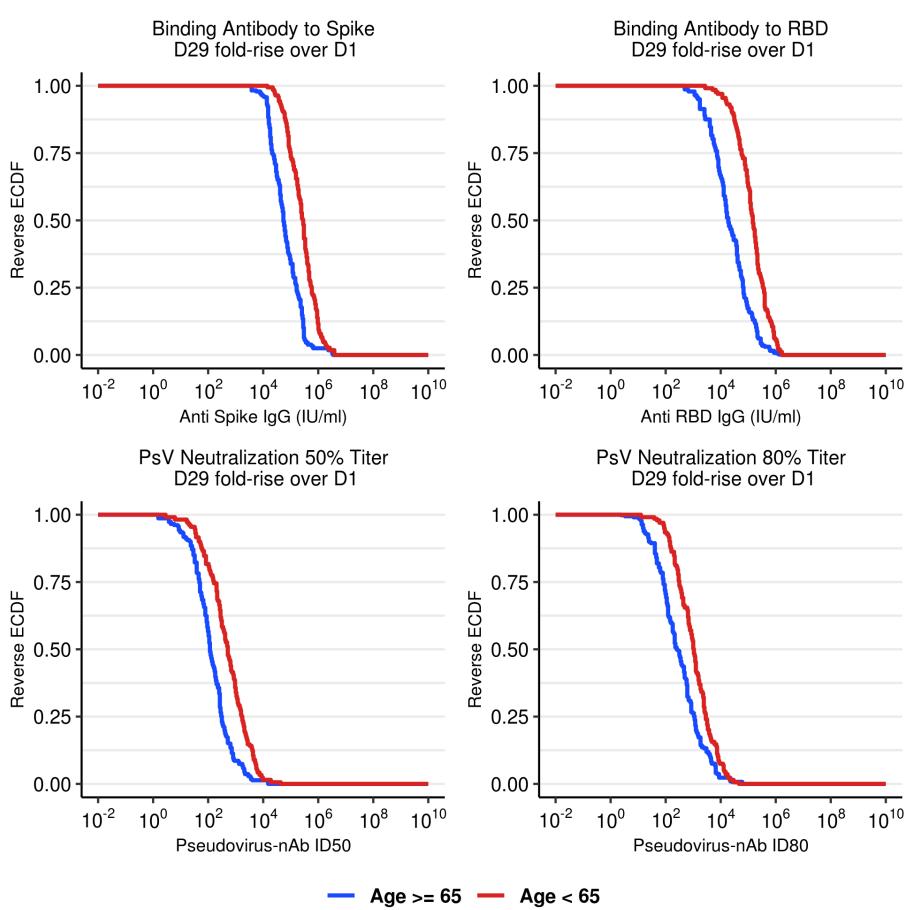


Figure 2.90: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age groups.

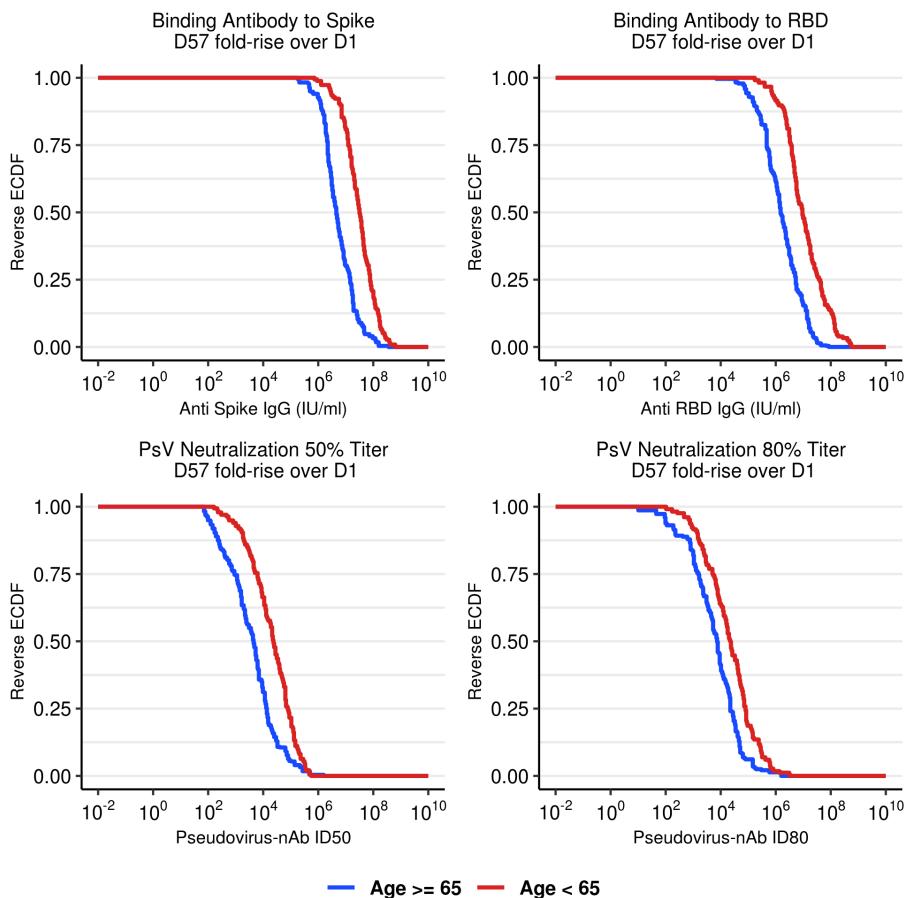


Figure 2.91: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age groups.

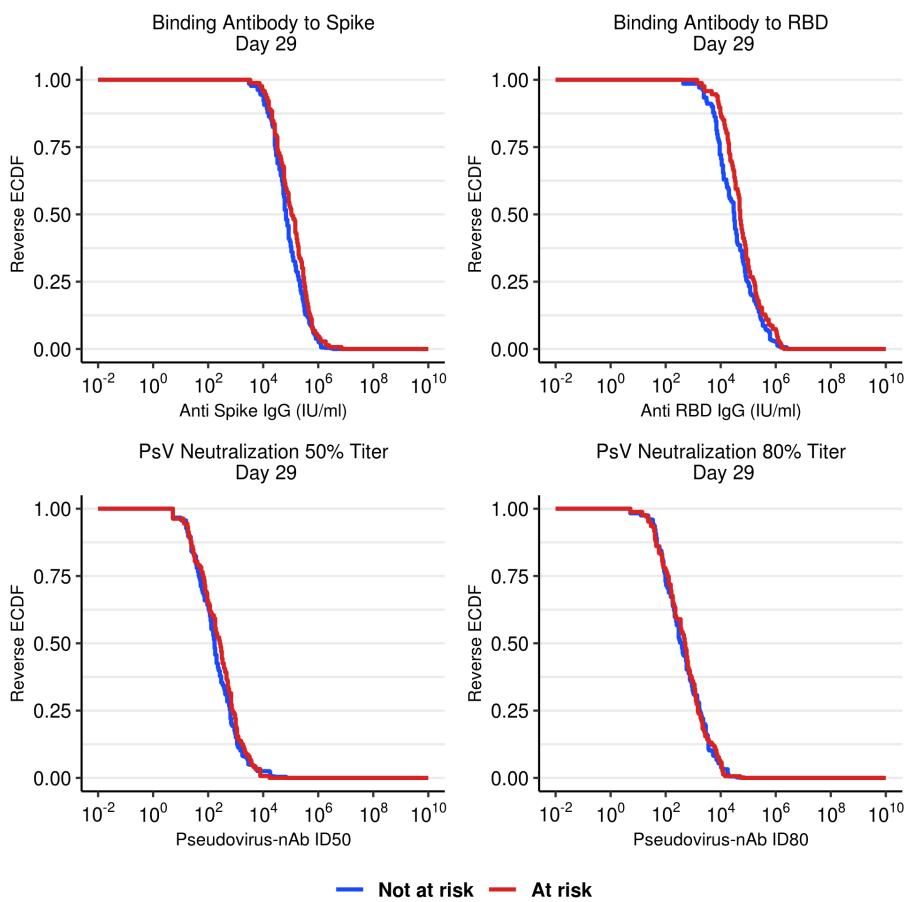


Figure 2.92: RCDF plots for D29 Ab markers: baseline positive vaccine arm by high-risk condition.

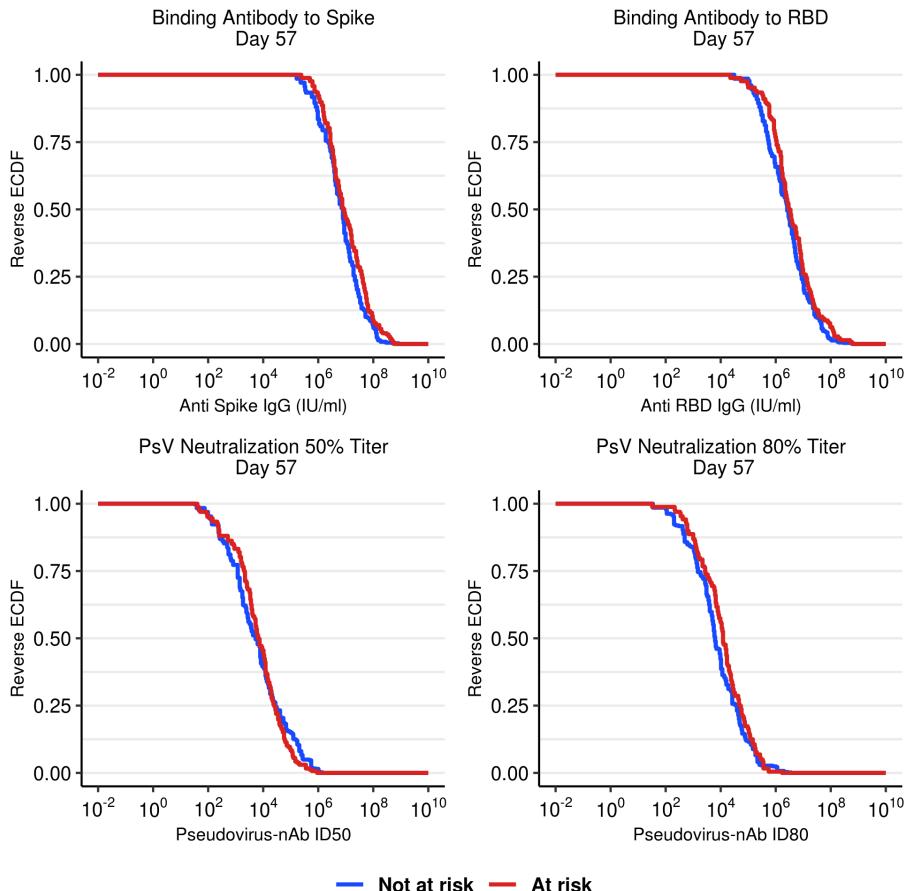


Figure 2.93: RCDF plots for D57 Ab markers: baseline positive vaccine arm by high-risk condition.

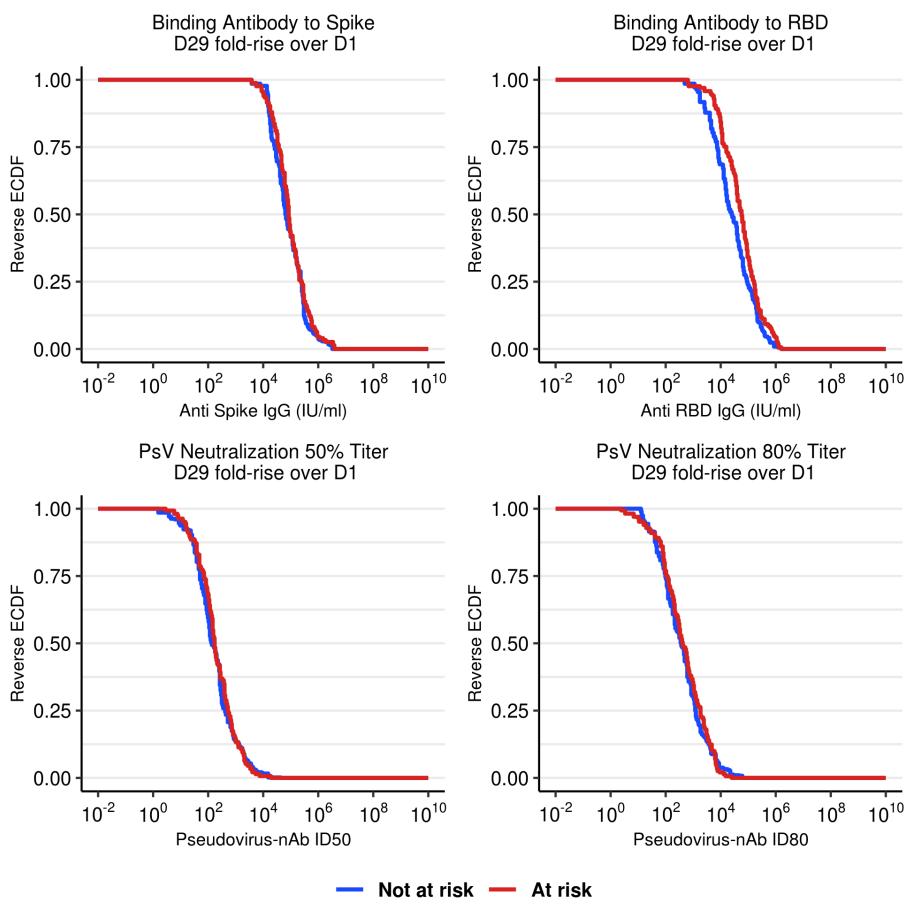


Figure 2.94: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition.

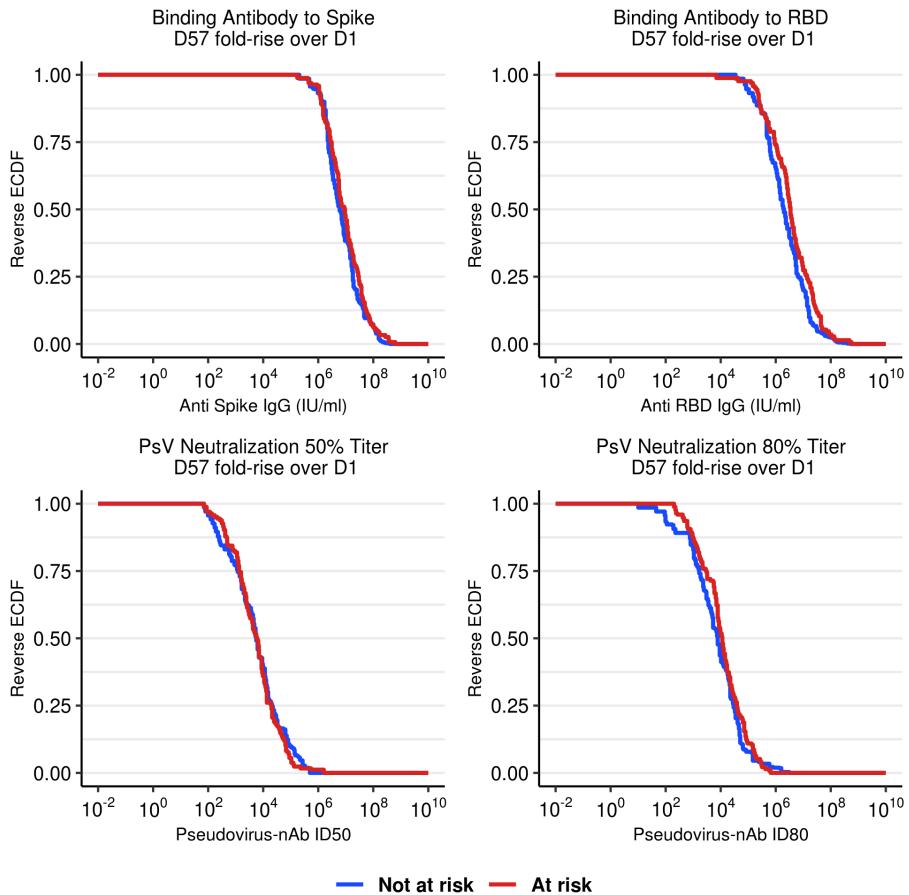


Figure 2.95: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition.

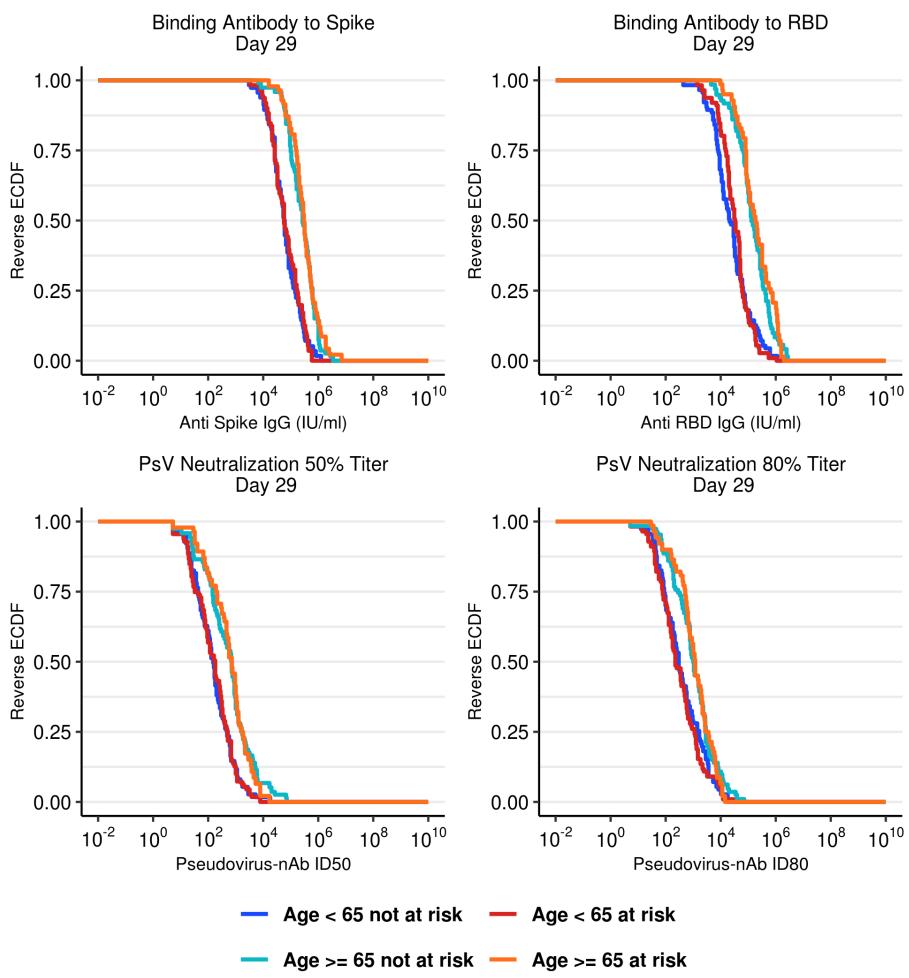


Figure 2.96: RCDF plots for D29 Ab markers: baseline positive vaccine arm by age and high-risk condition.

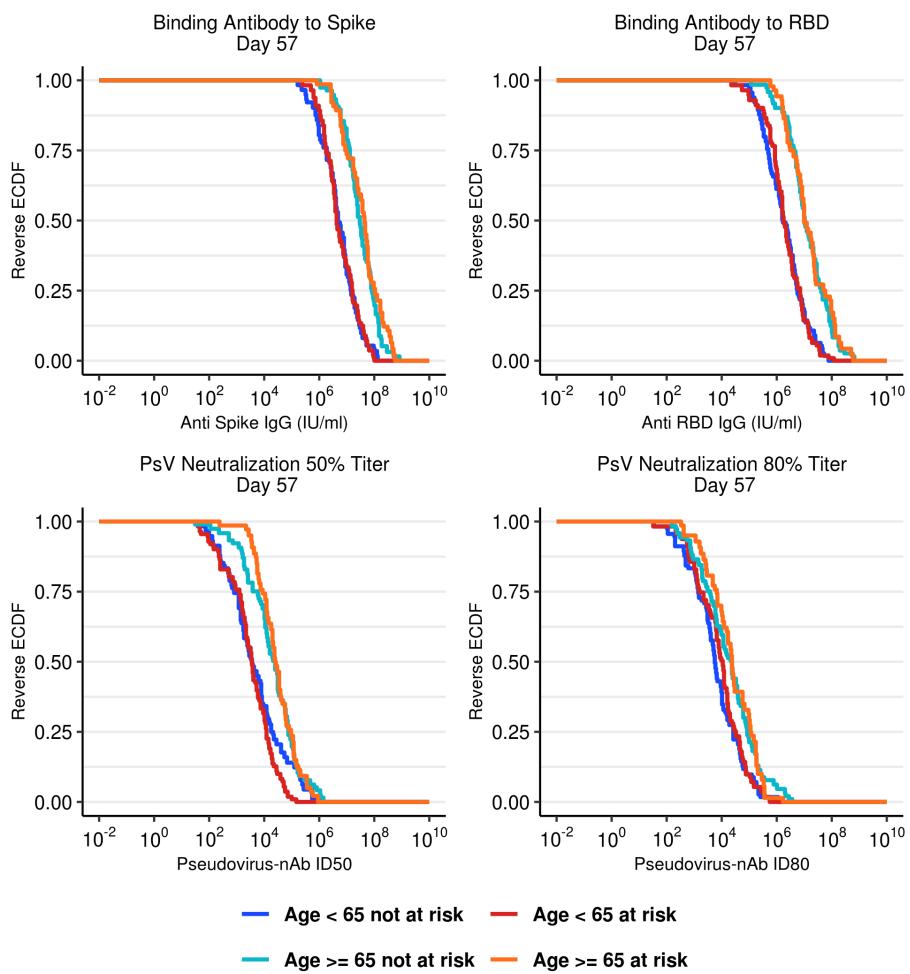


Figure 2.97: RCDF plots for D57 Ab markers: baseline positive vaccine arm by age and high-risk condition.

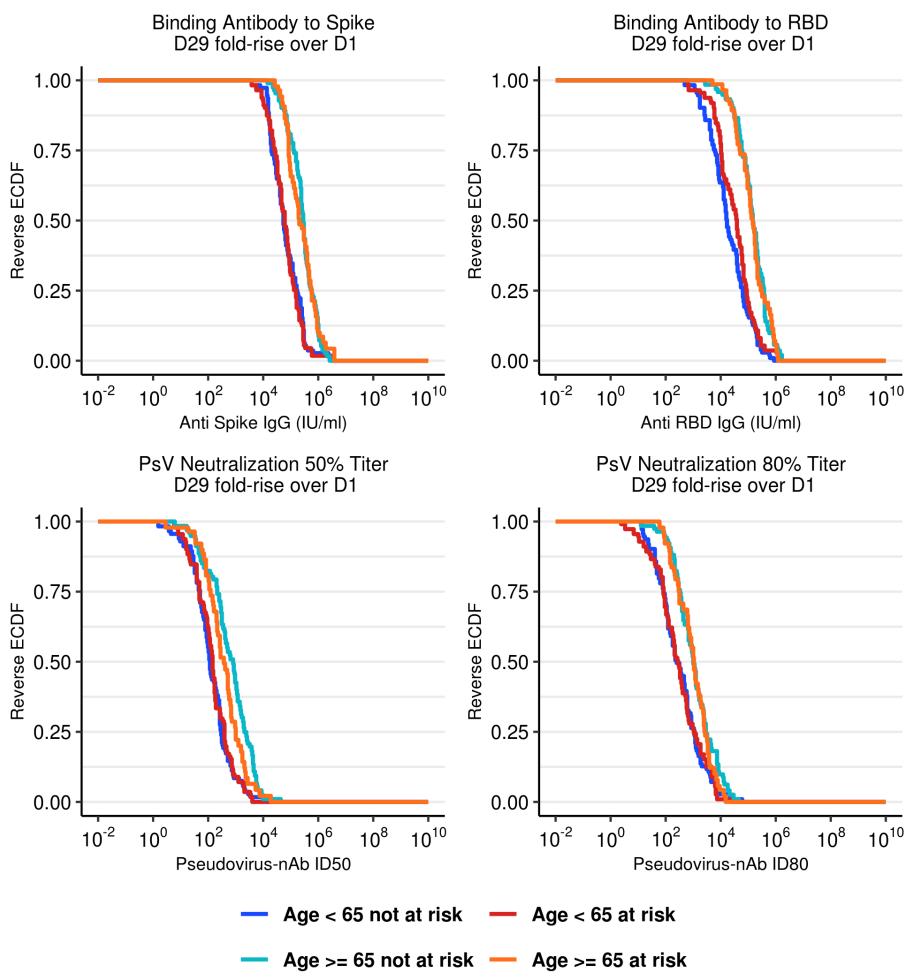


Figure 2.98: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition.

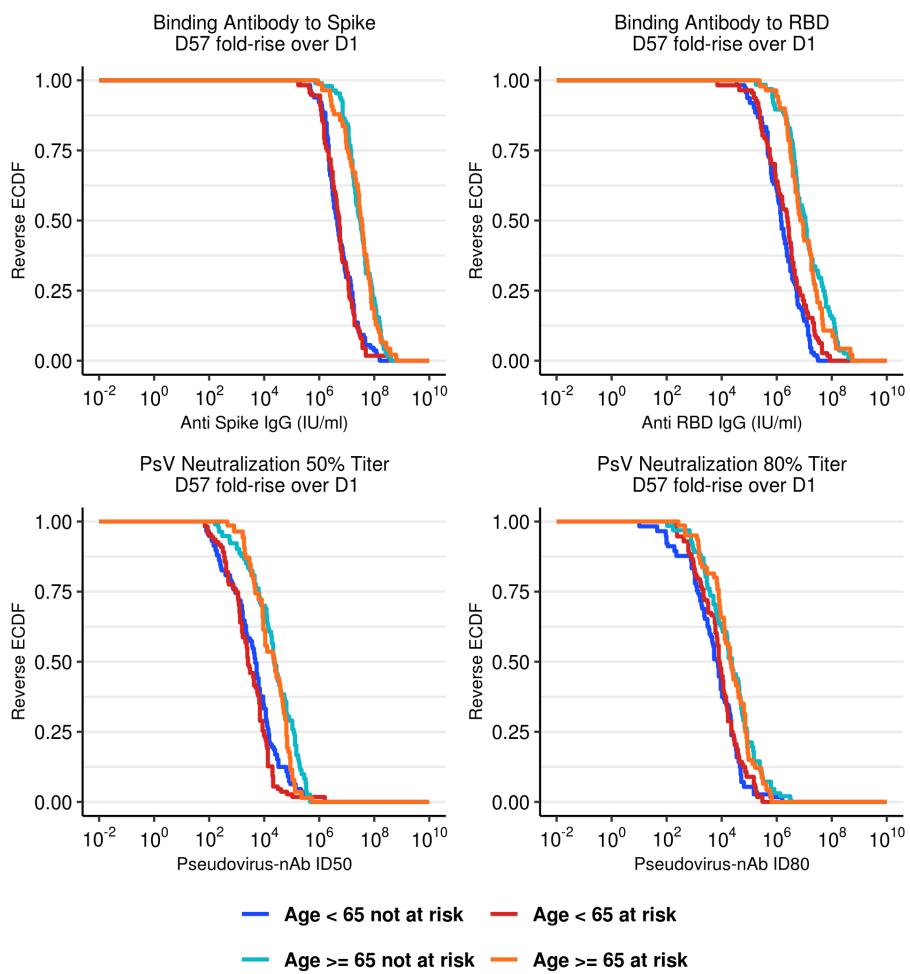


Figure 2.99: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition.

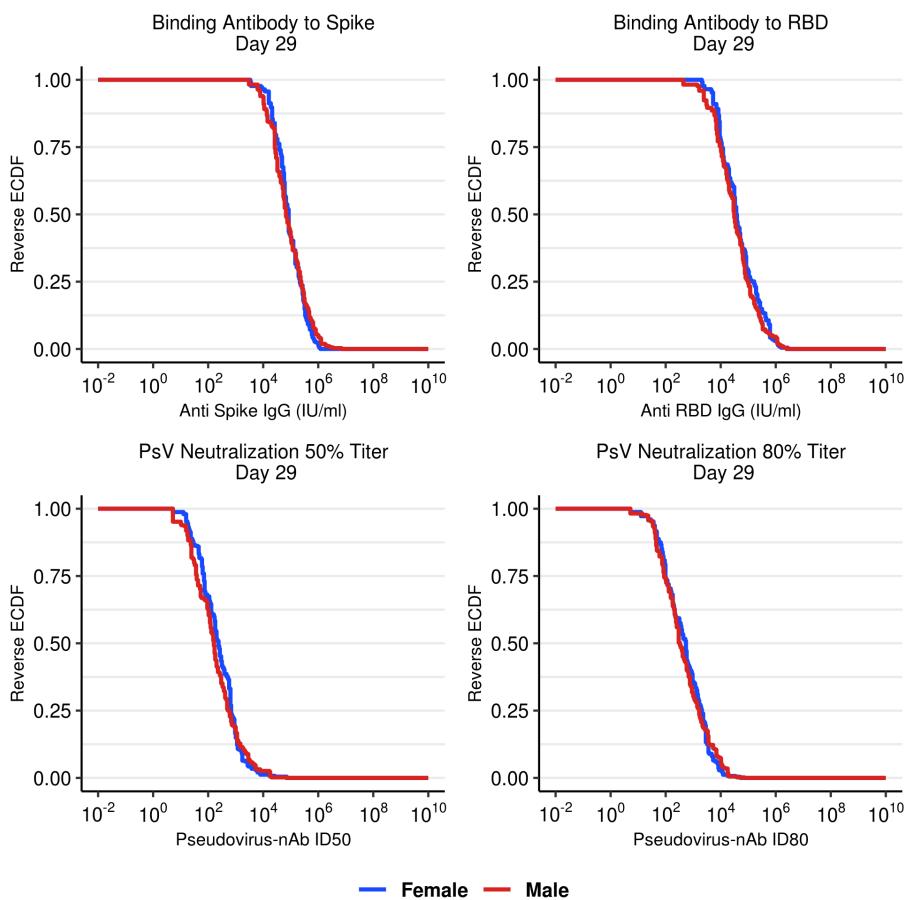


Figure 2.100: RCDF plots for D29 Ab markers: baseline positive vaccine arm by sex assigned at birth.

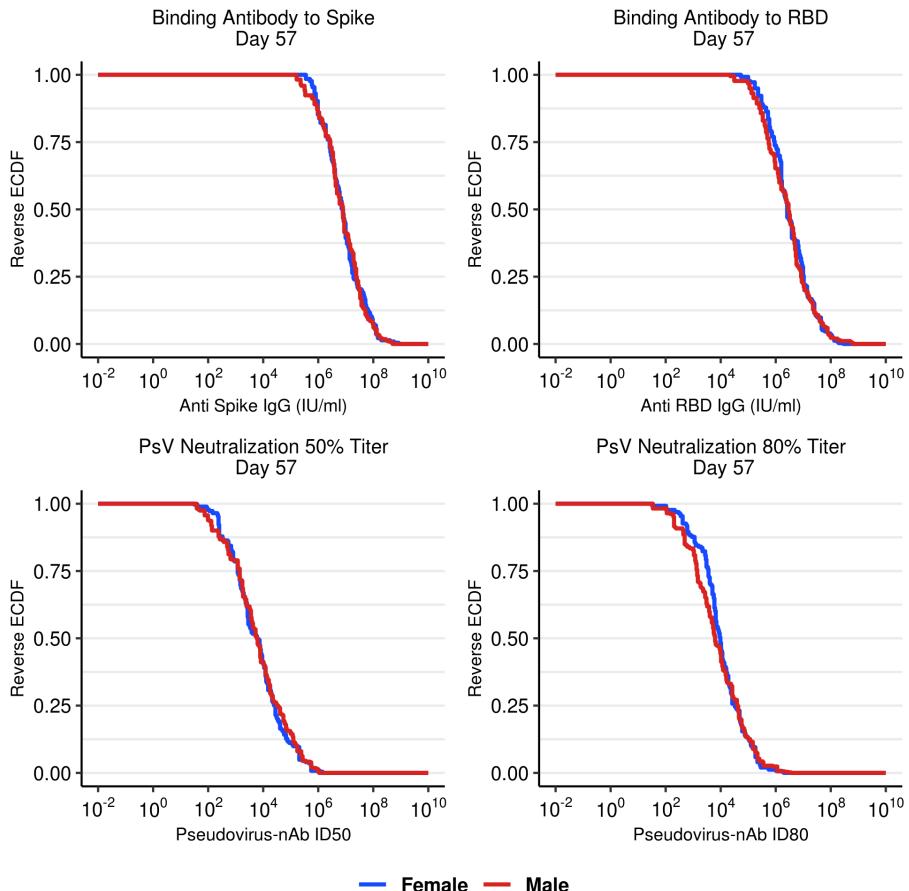


Figure 2.101: RCDF plots for D57 Ab markers: baseline positive vaccine arm by sex assigned at birth.

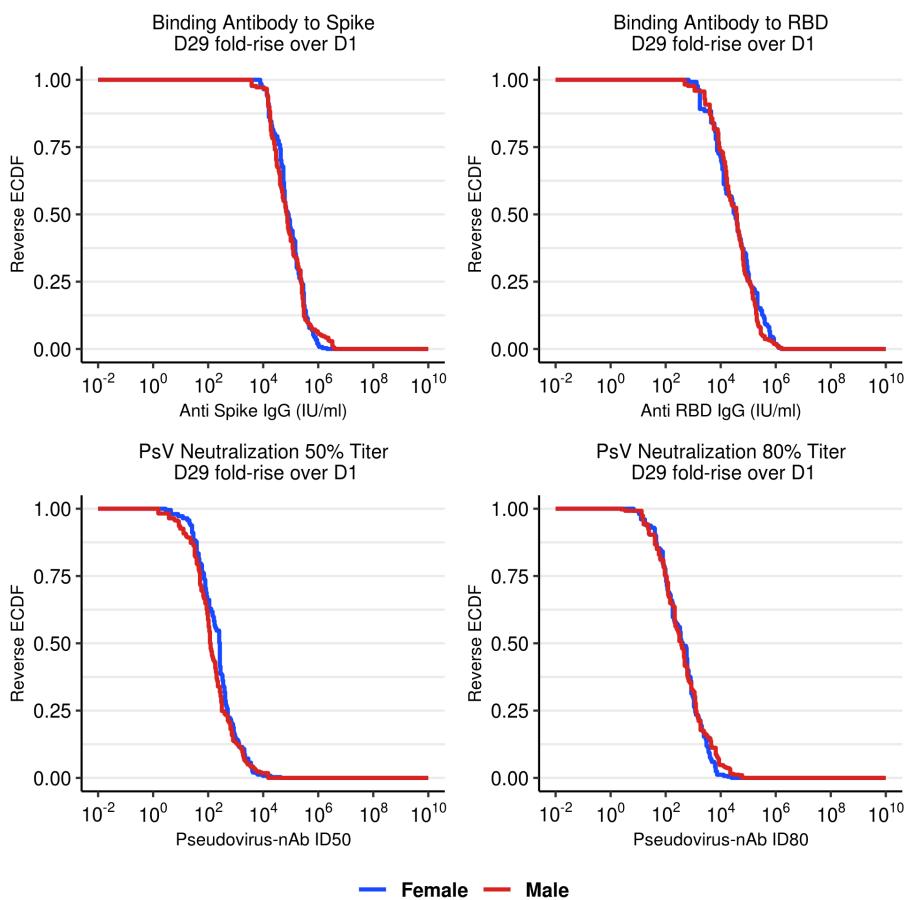


Figure 2.102: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth.

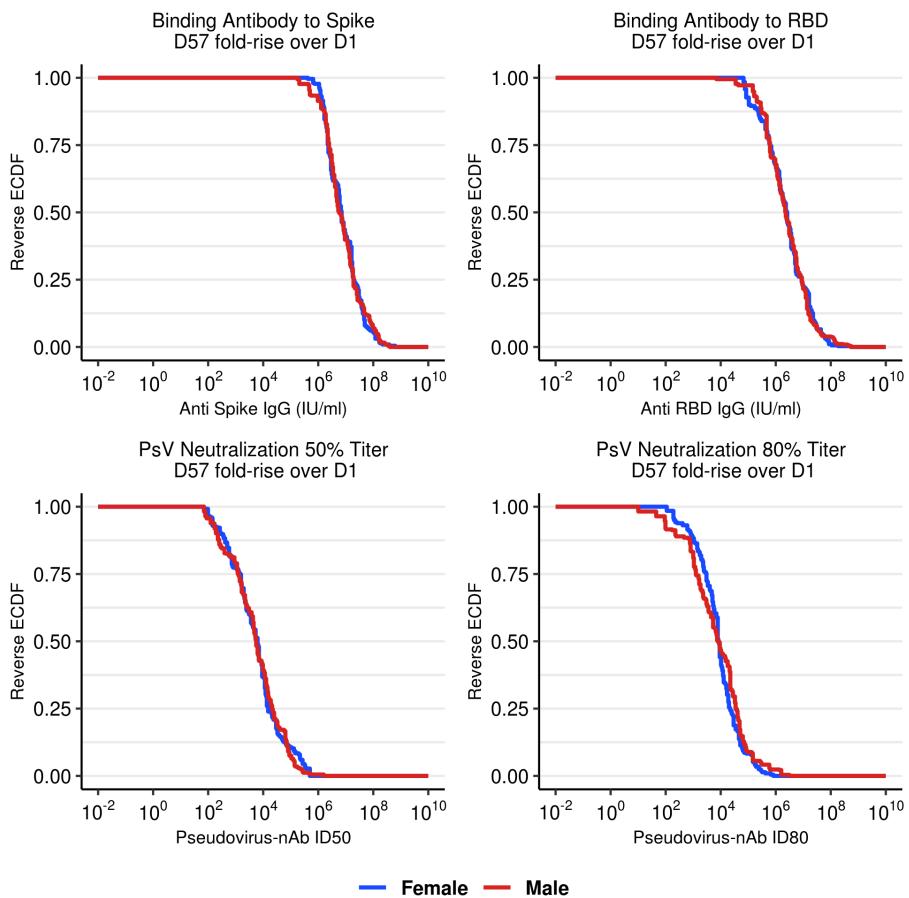


Figure 2.103: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth.

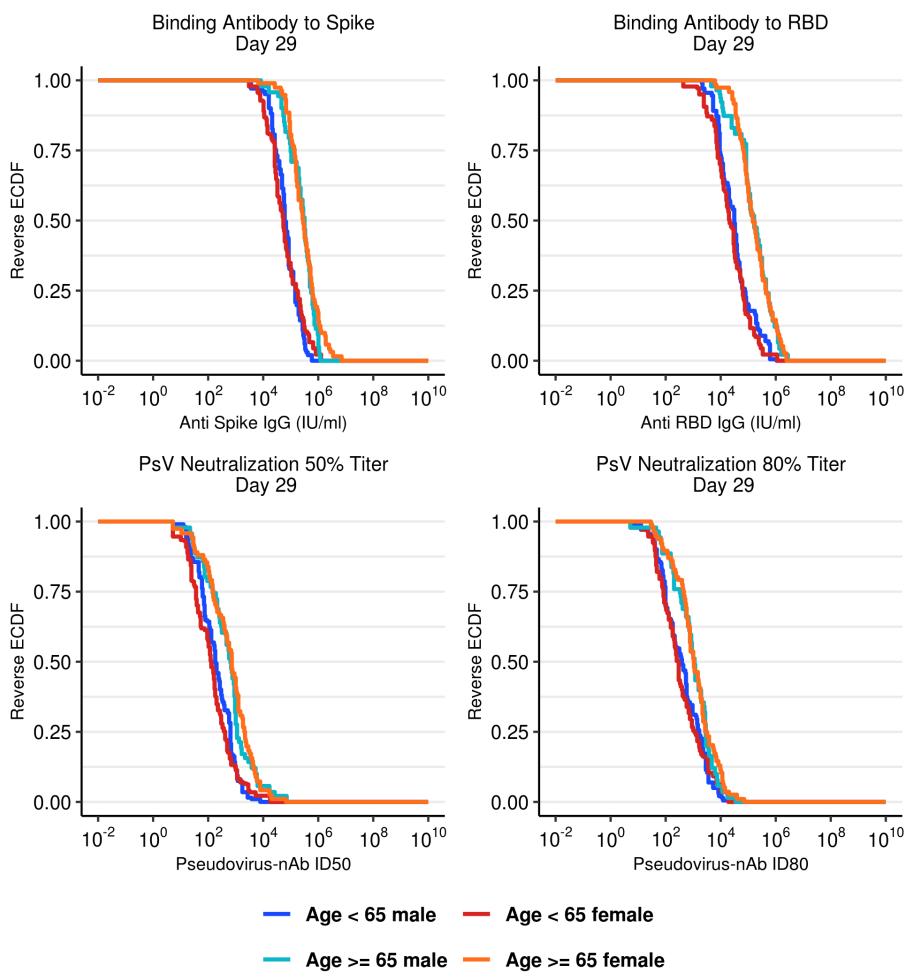


Figure 2.104: RCDF plots for D29 Ab markers: baseline positive vaccine arm by age and sex assigned at birth.

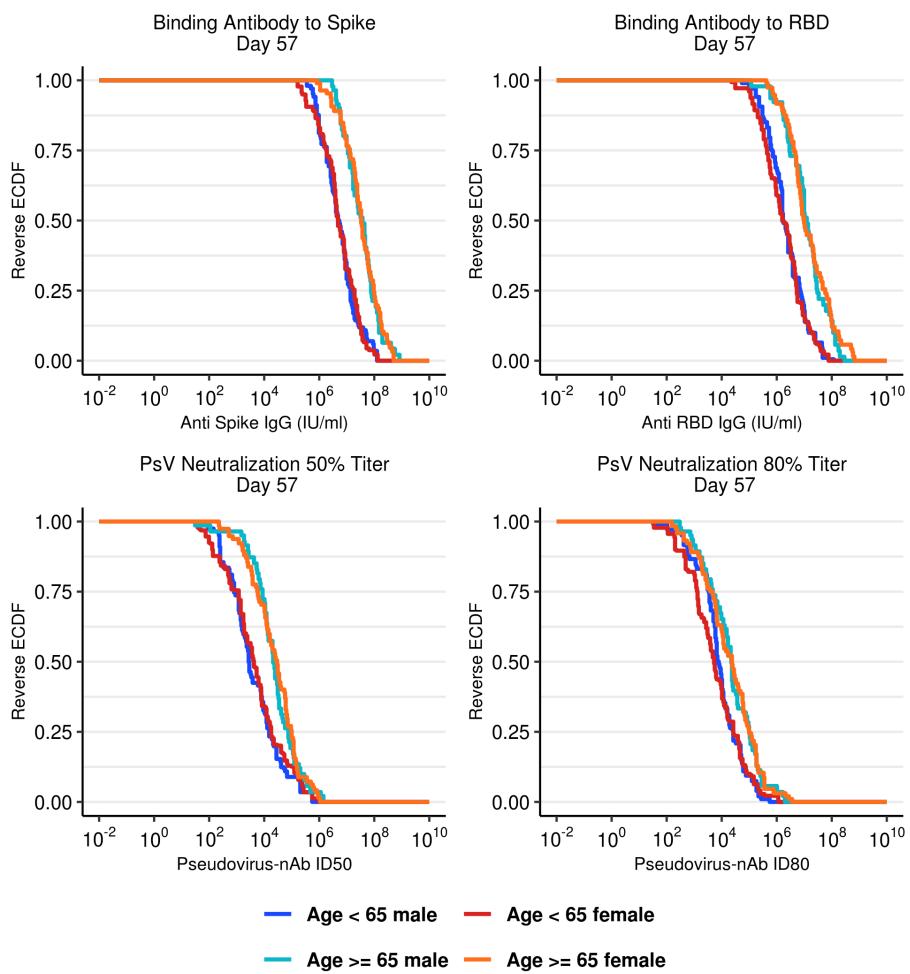


Figure 2.105: RCDF plots for D57 Ab markers: baseline positive vaccine arm by age and sex assigned at birth.

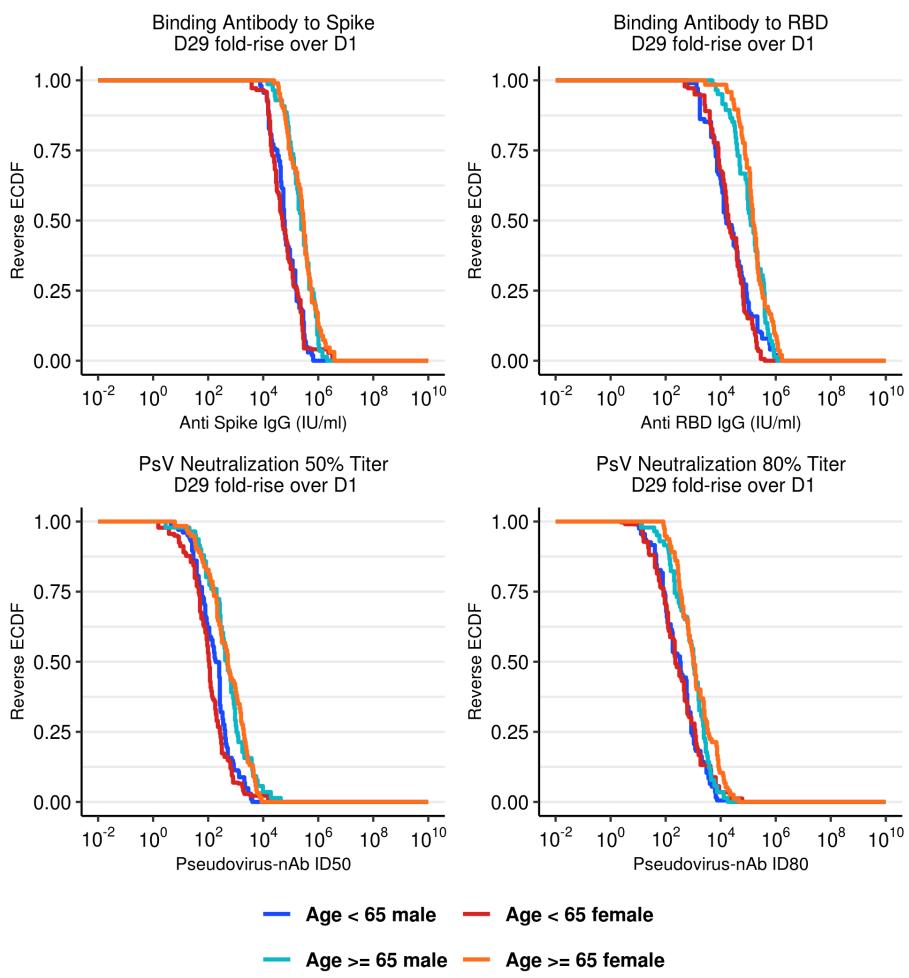


Figure 2.106: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth.

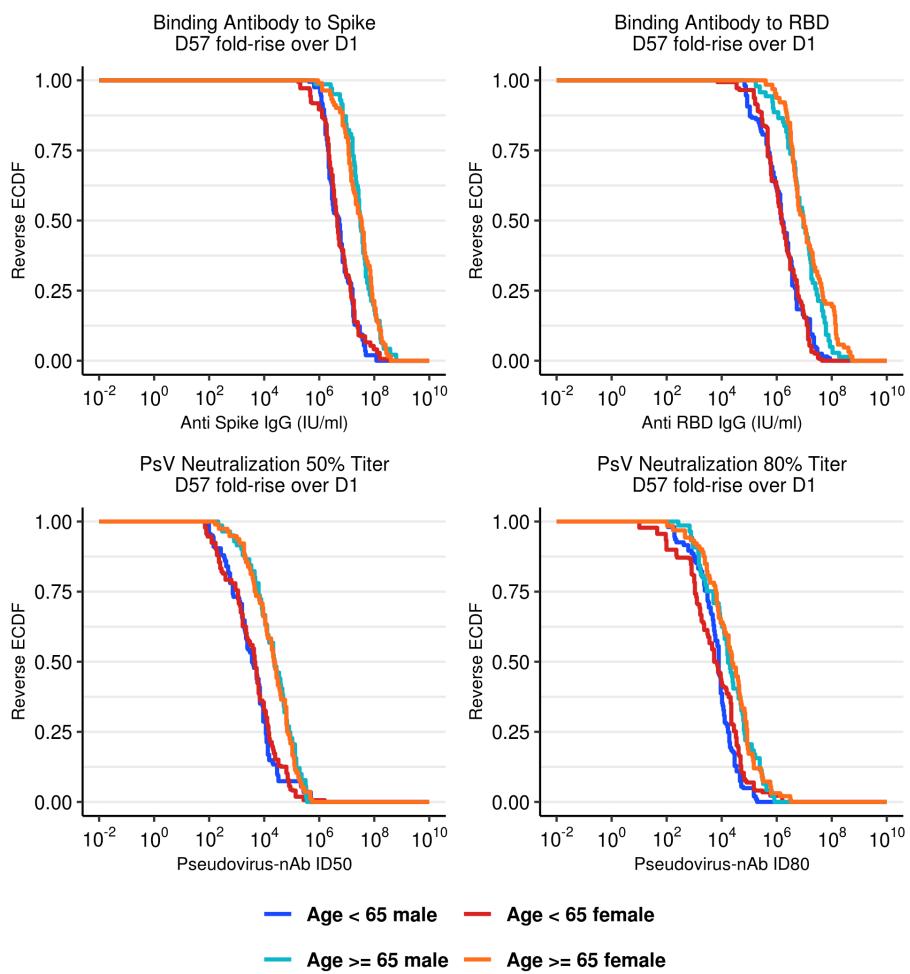


Figure 2.107: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth.

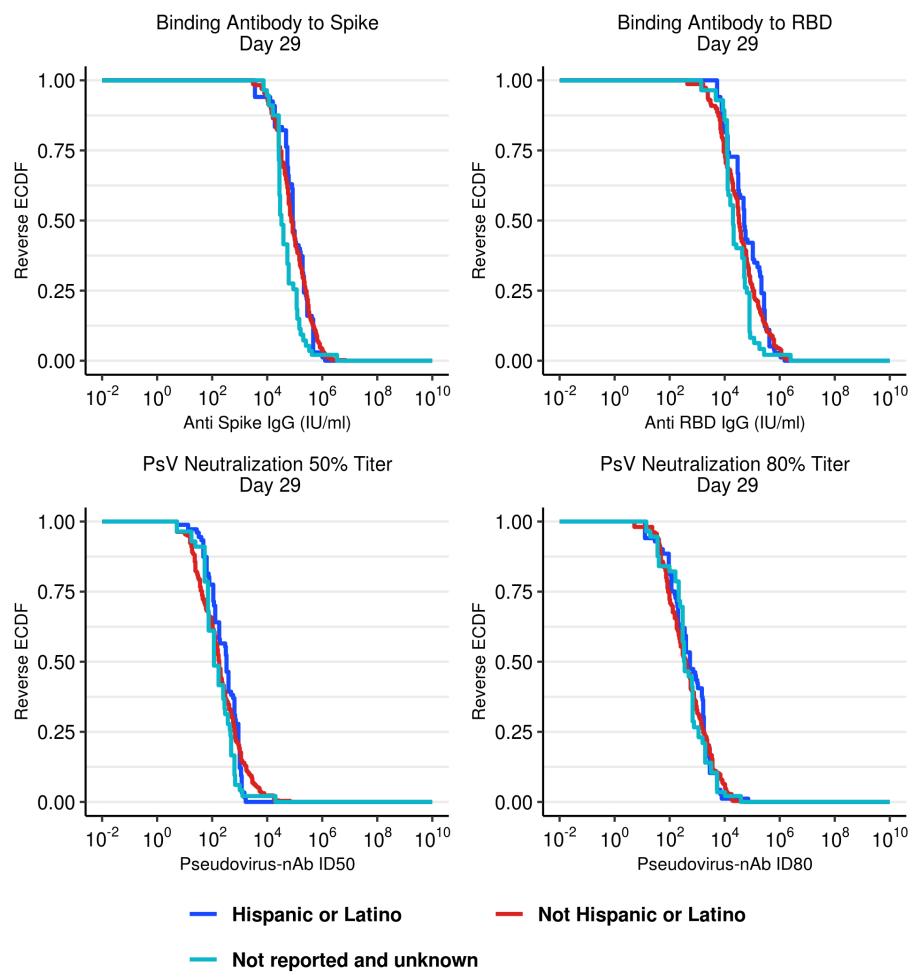


Figure 2.108: RCDF plots for D29 Ab markers: baseline positive vaccine arm by ethnicity.

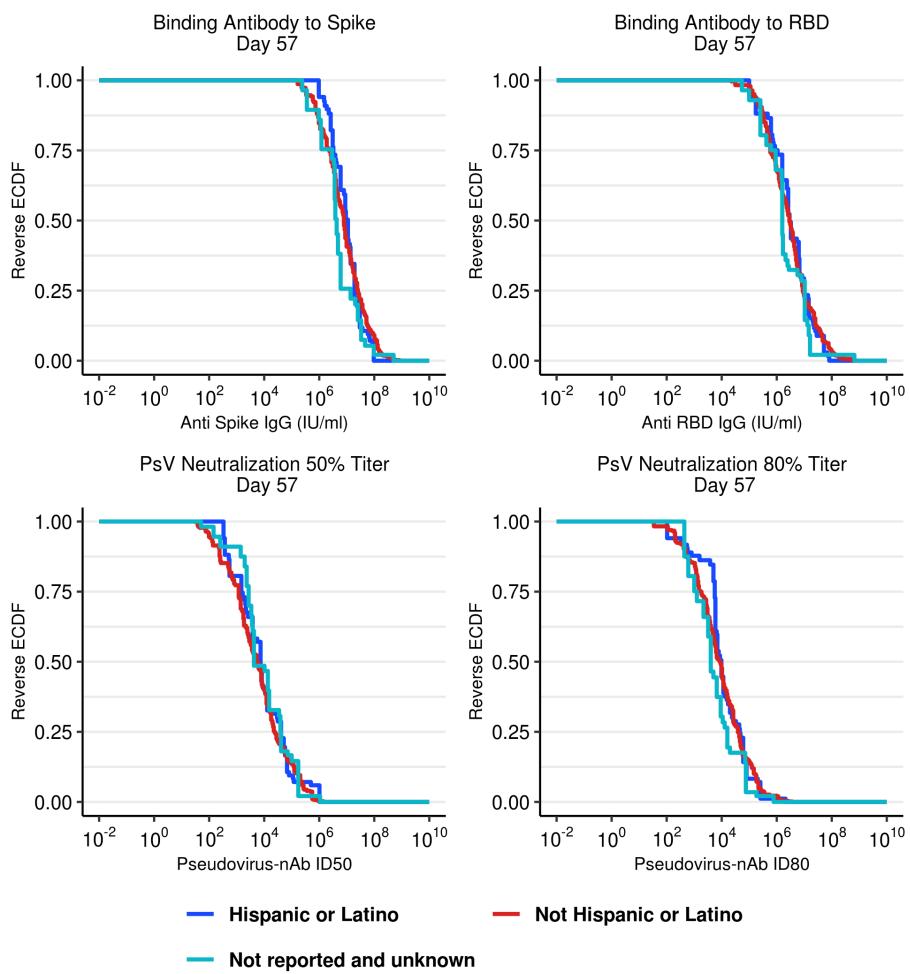


Figure 2.109: RCDF plots for D57 Ab markers: baseline positive vaccine arm by ethnicity.

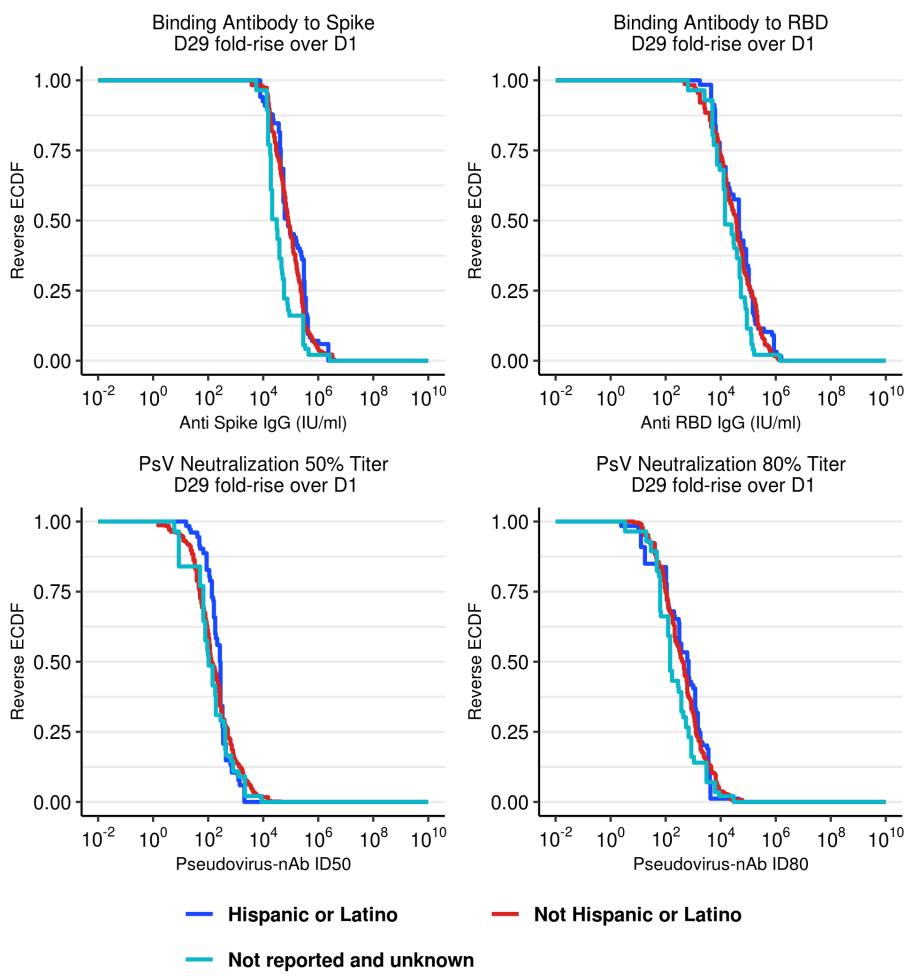


Figure 2.110: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity.

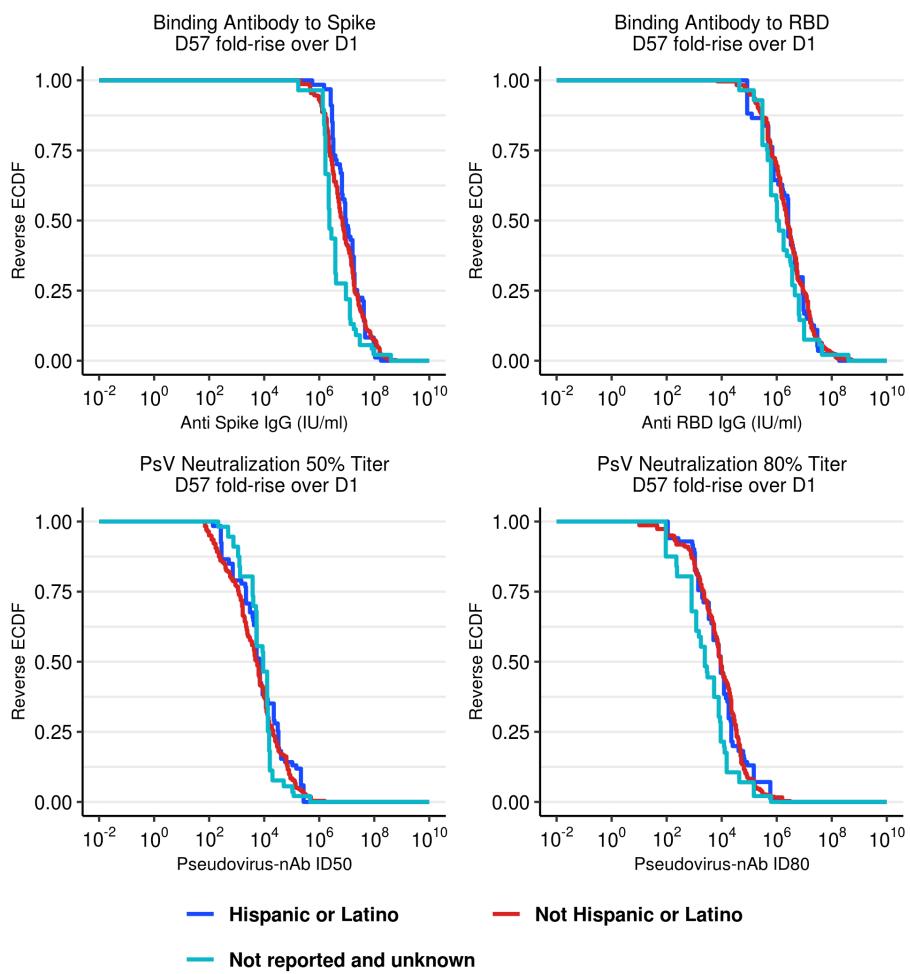


Figure 2.111: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity.

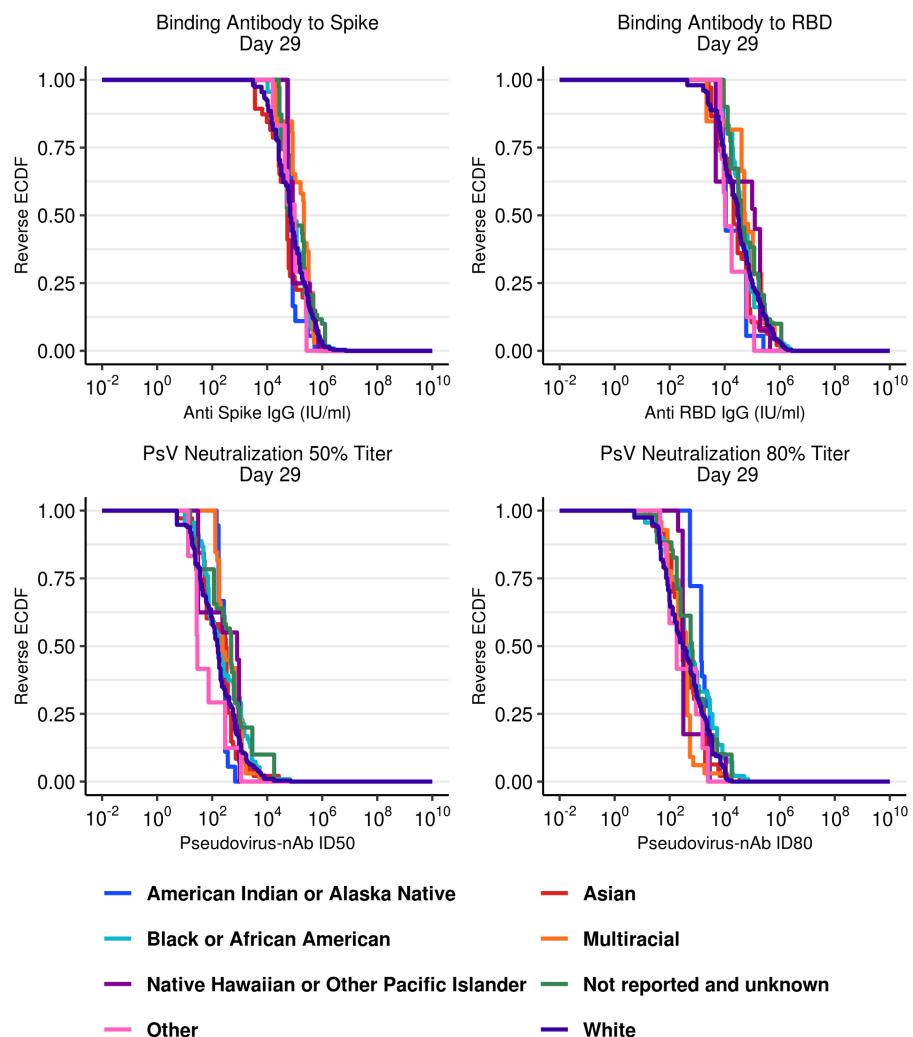


Figure 2.112: RCDF plots for D29 Ab markers: baseline positive vaccine arm by race.

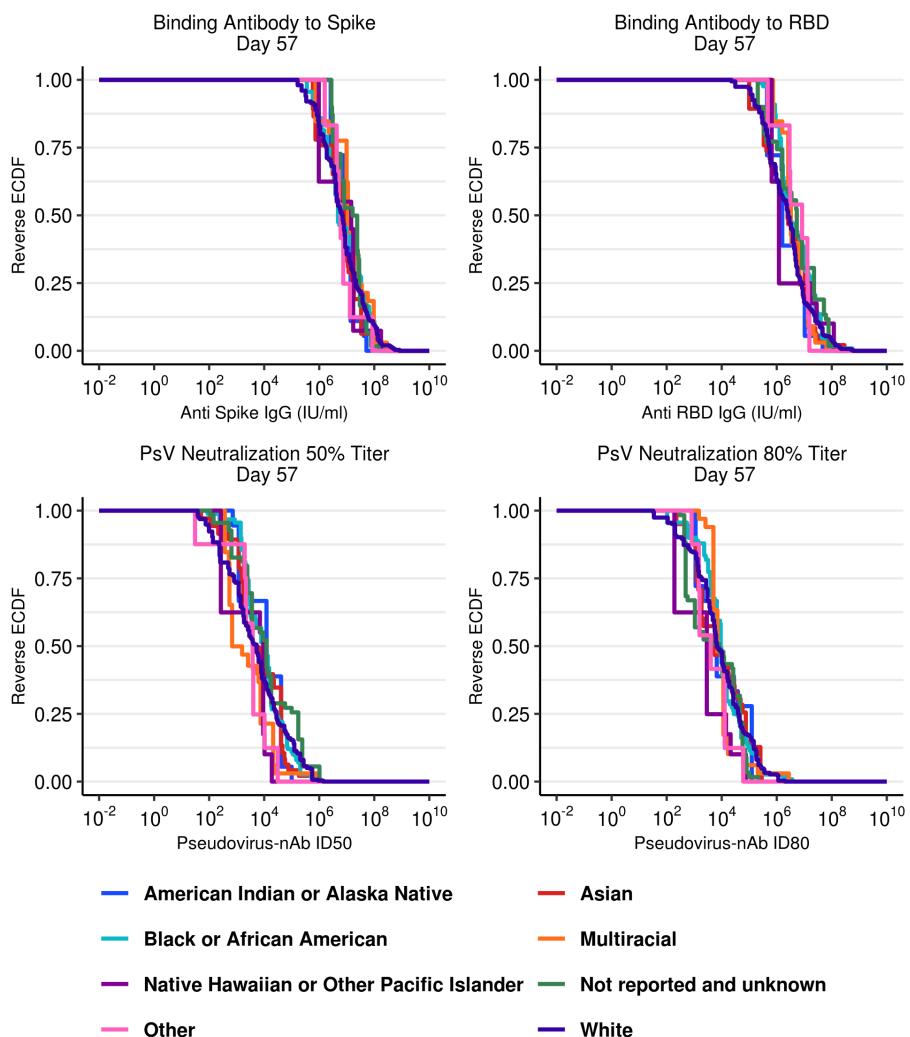


Figure 2.113: RCDF plots for D57 Ab markers: baseline positive vaccine arm by race.

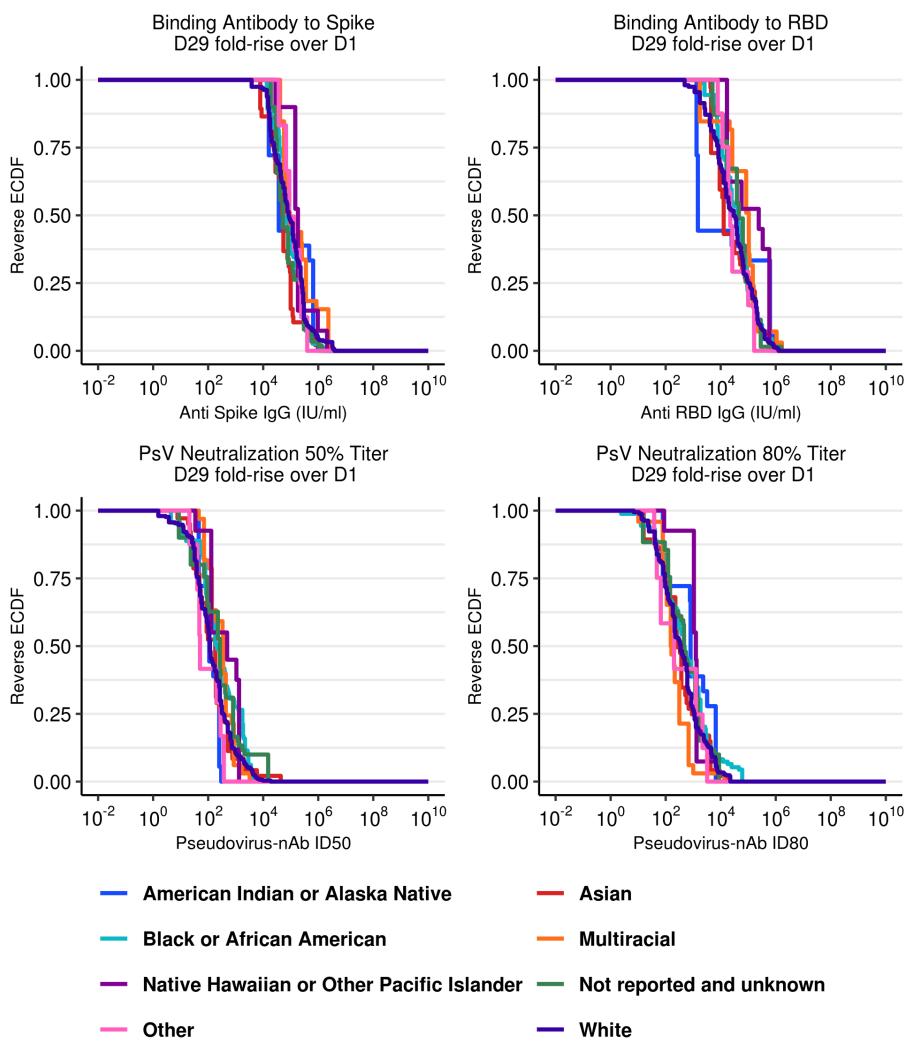


Figure 2.114: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by race.

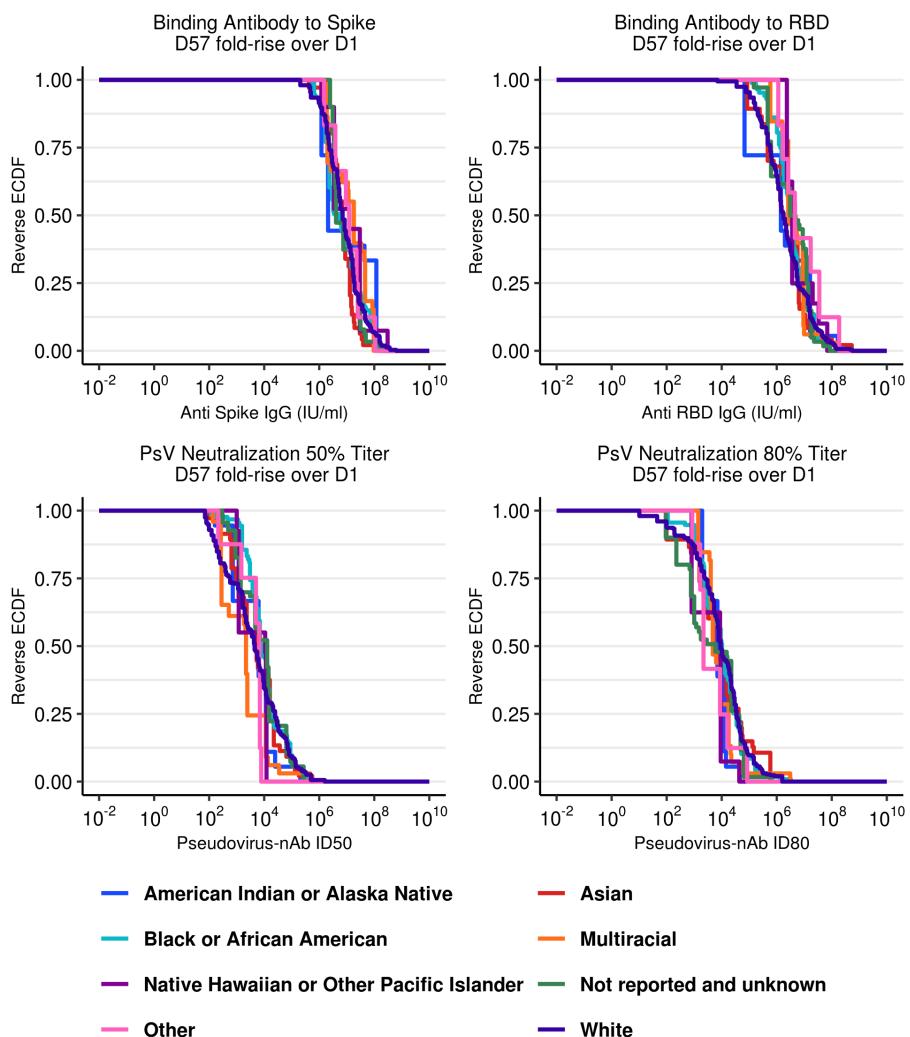


Figure 2.115: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by race.

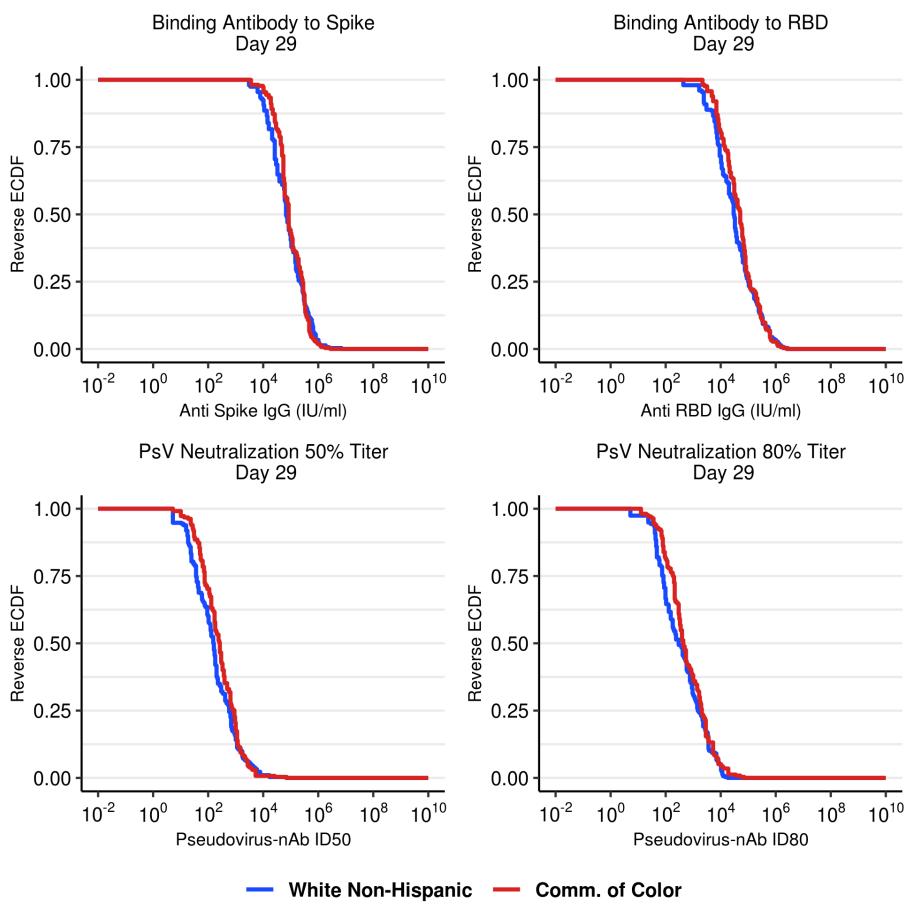


Figure 2.116: RCDF plots for D29 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group.

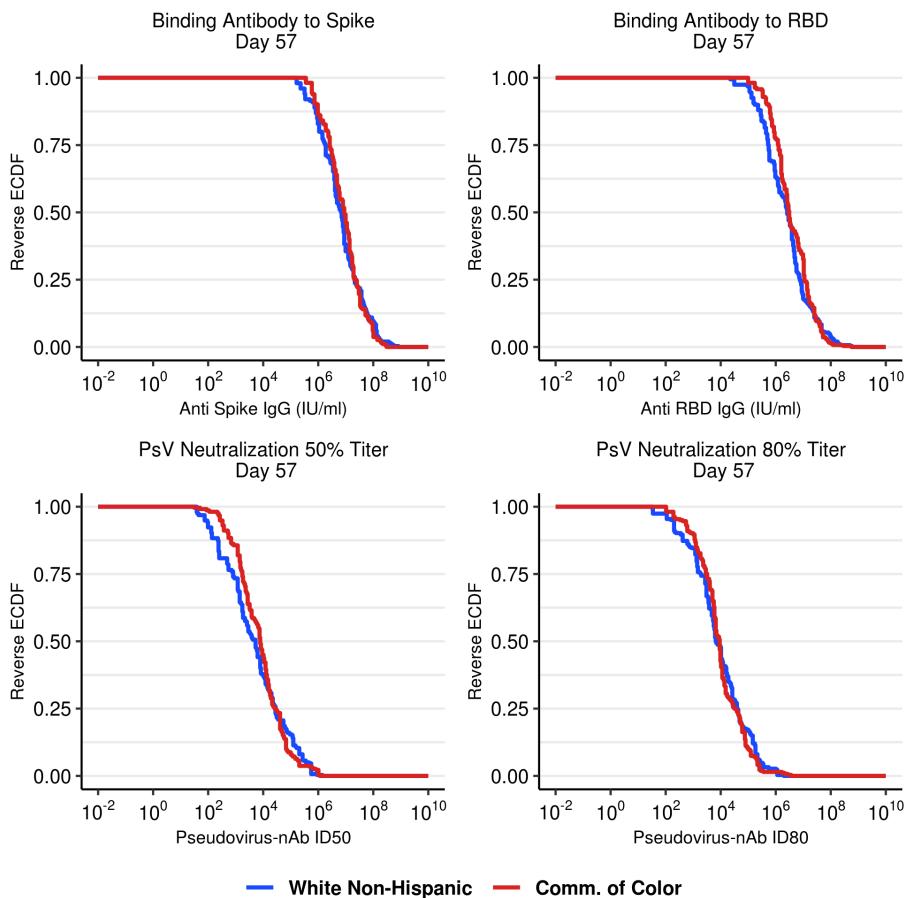


Figure 2.117: RCDF plots for D57 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group.

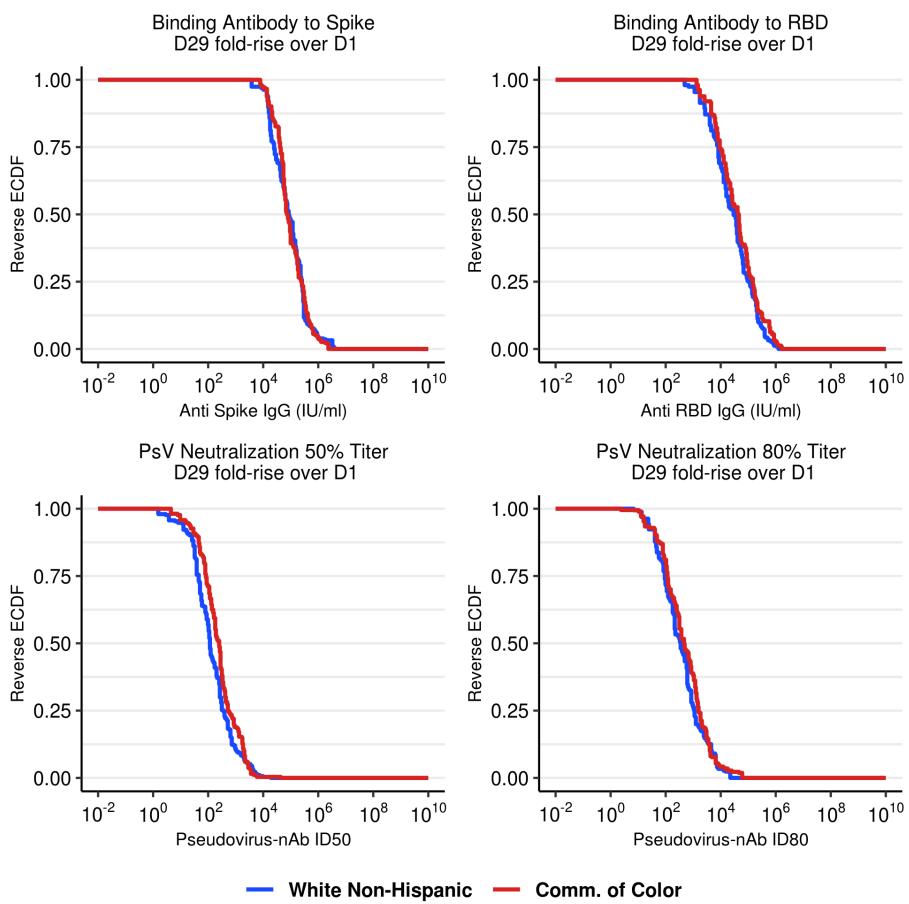


Figure 2.118: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group.

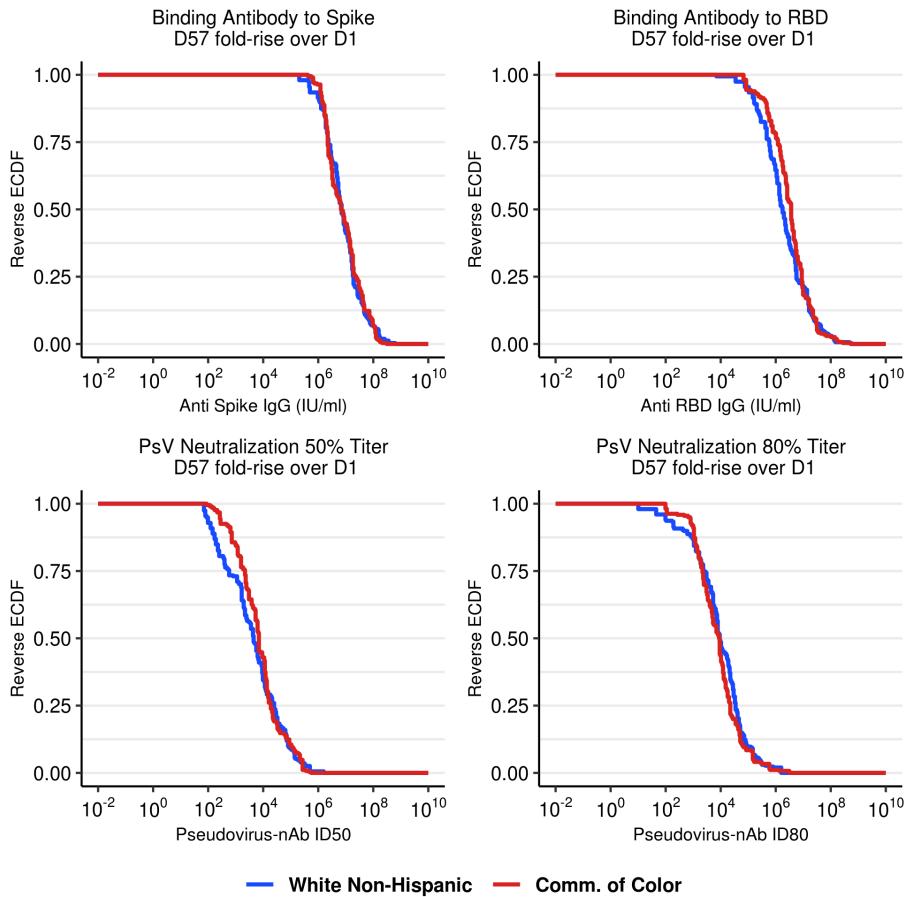


Figure 2.119: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group.

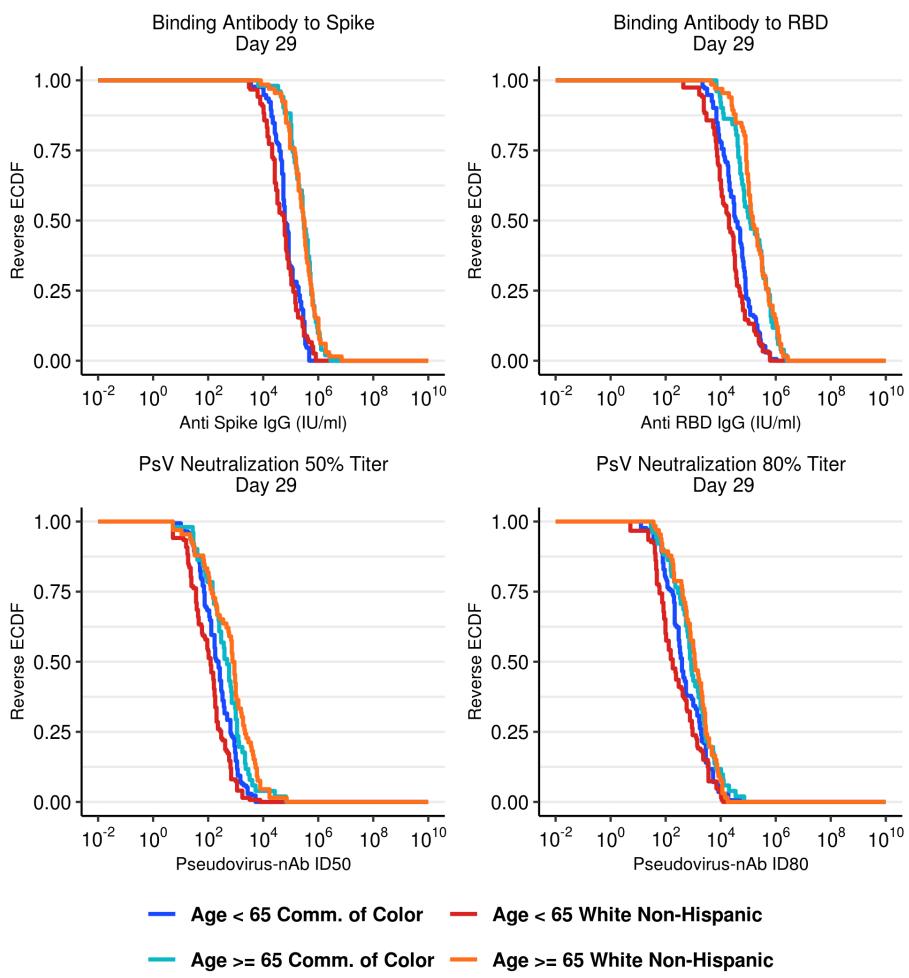


Figure 2.120: RCDF plots for D29 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group.

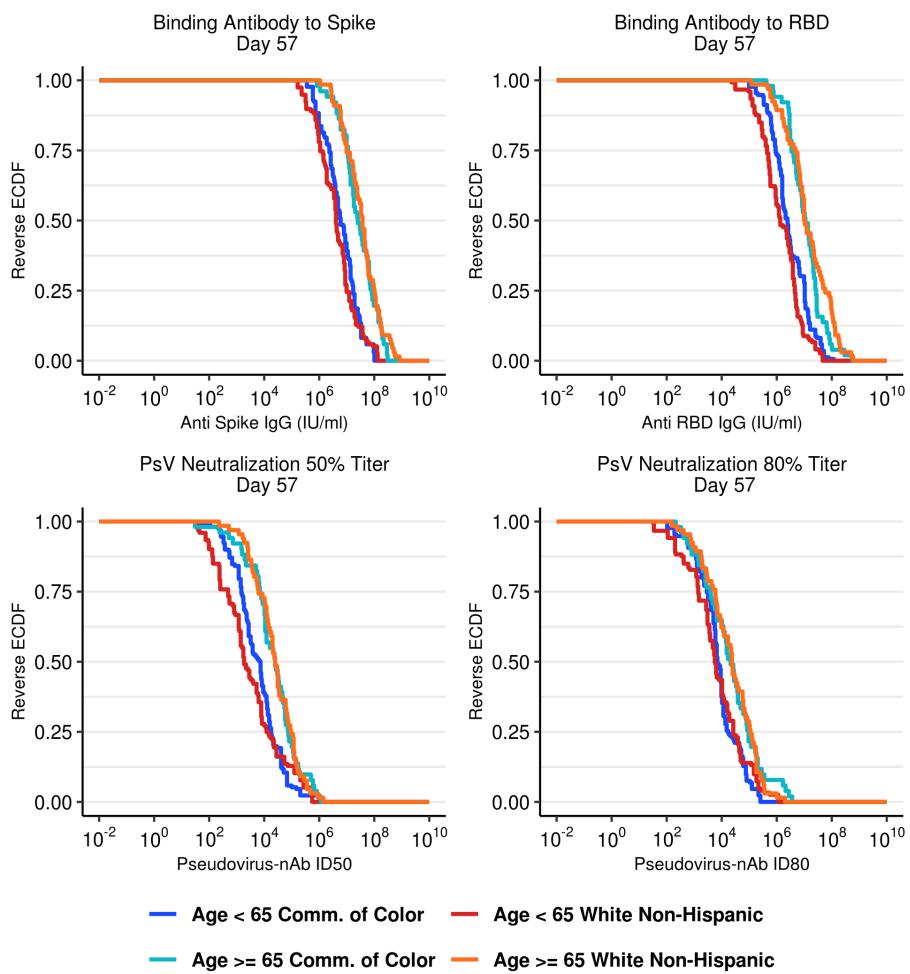


Figure 2.121: RCDF plots for D57 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group.

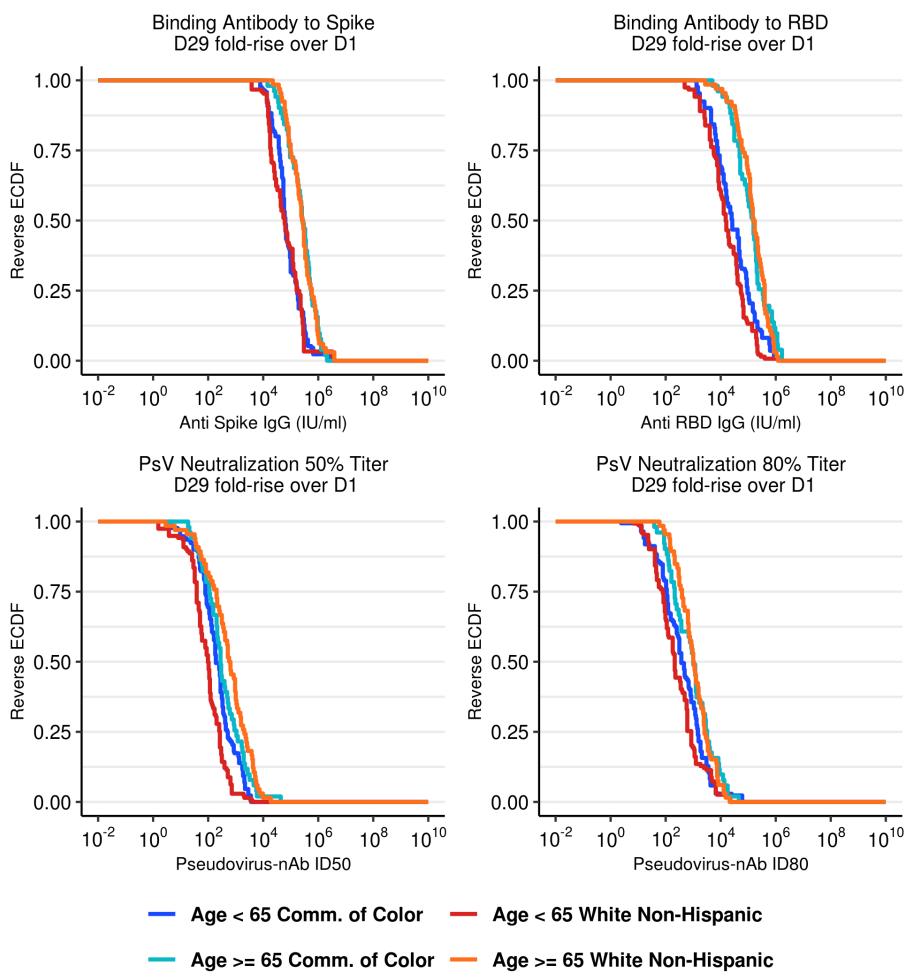


Figure 2.122: RCDF plots for D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group.

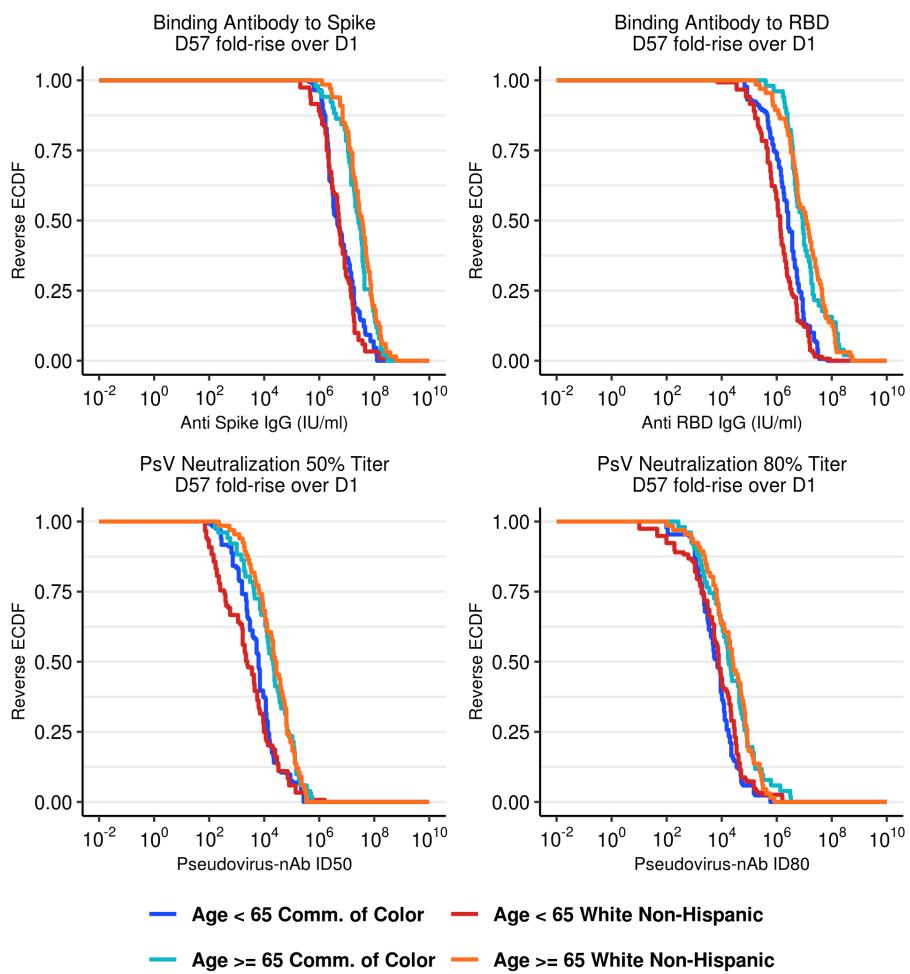


Figure 2.123: RCDF plots for D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group.

## 2.7 Boxplots of antibody markers by demographics for per-protocol cohort

## 2.7.1 Baseline SARS-CoV-2 negative

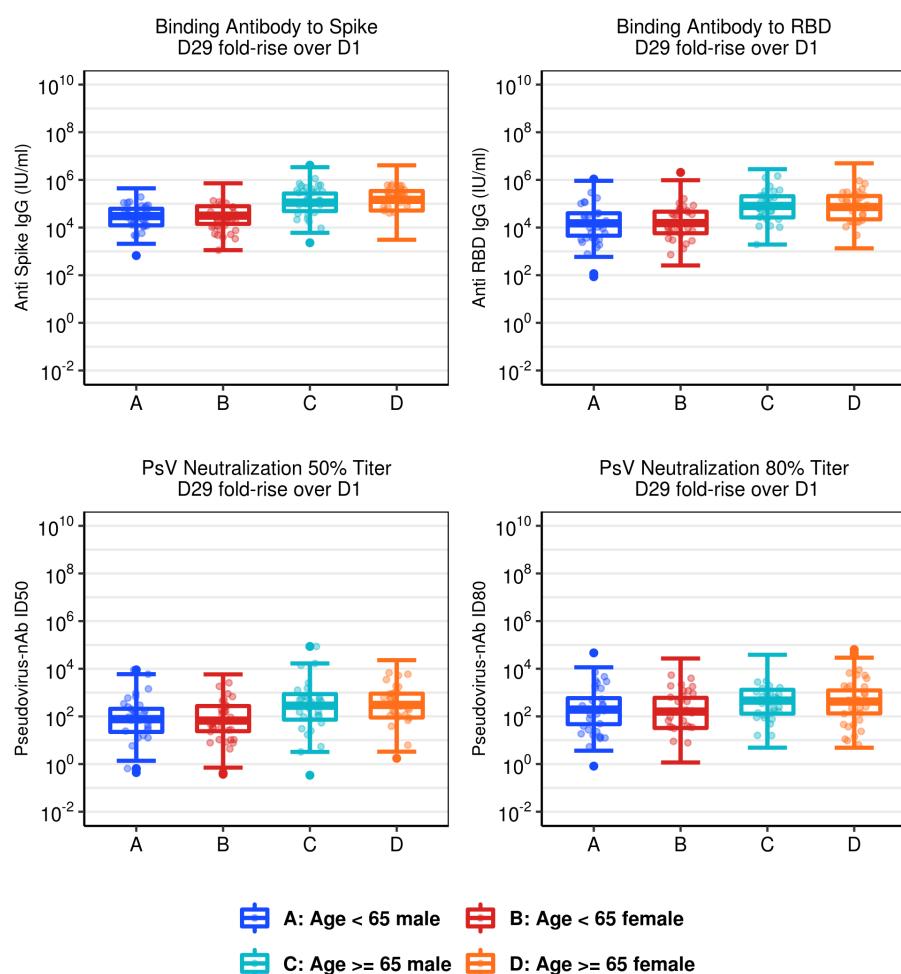


Figure 2.124: Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and sex assigned at birth.

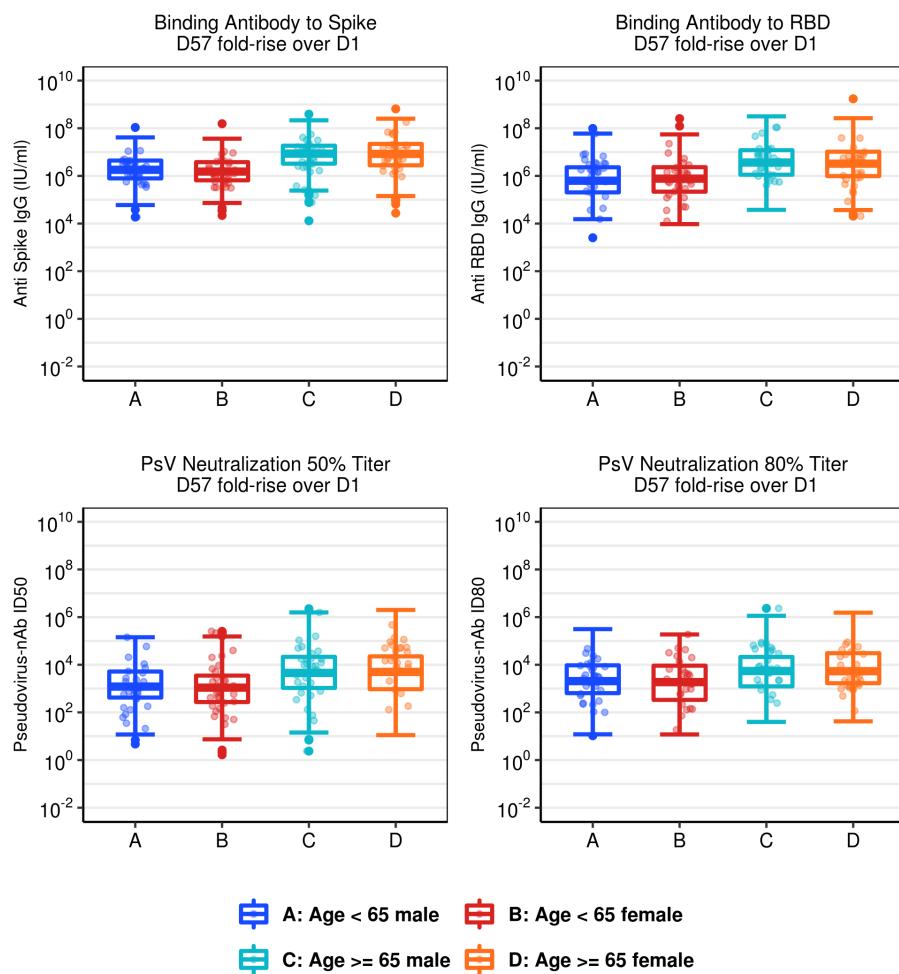


Figure 2.125: Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and sex assigned at birth.

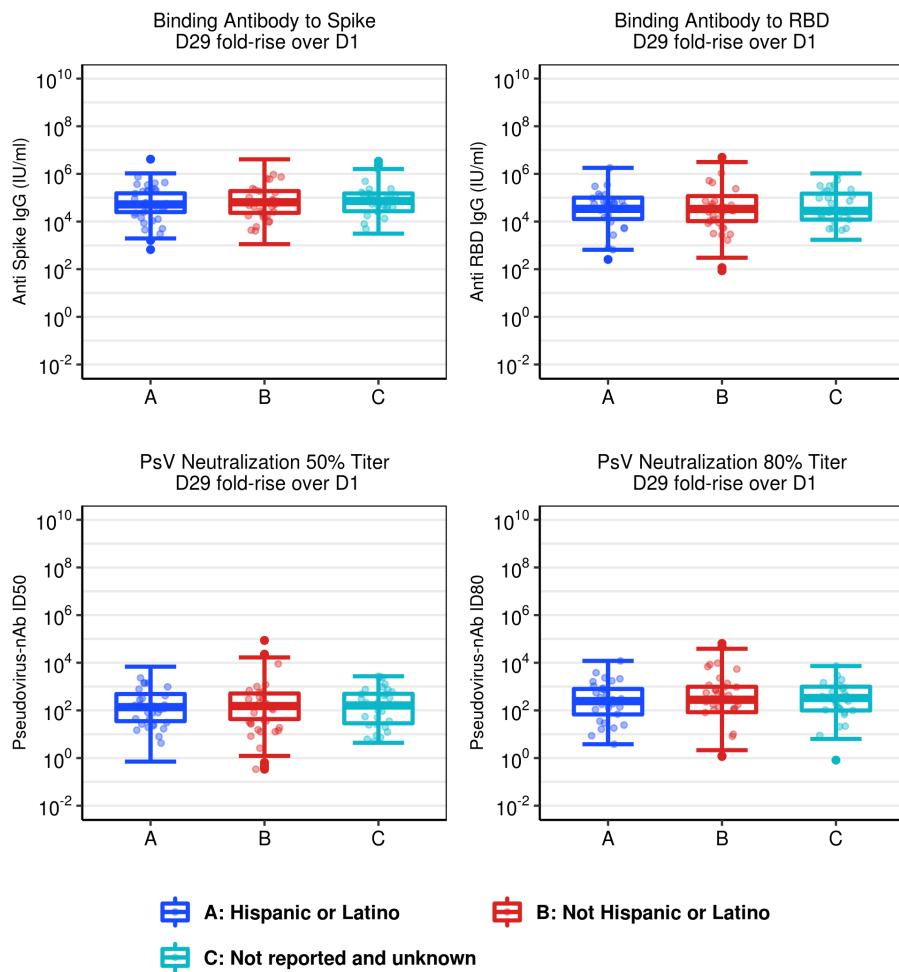


Figure 2.126: Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by ethnicity.

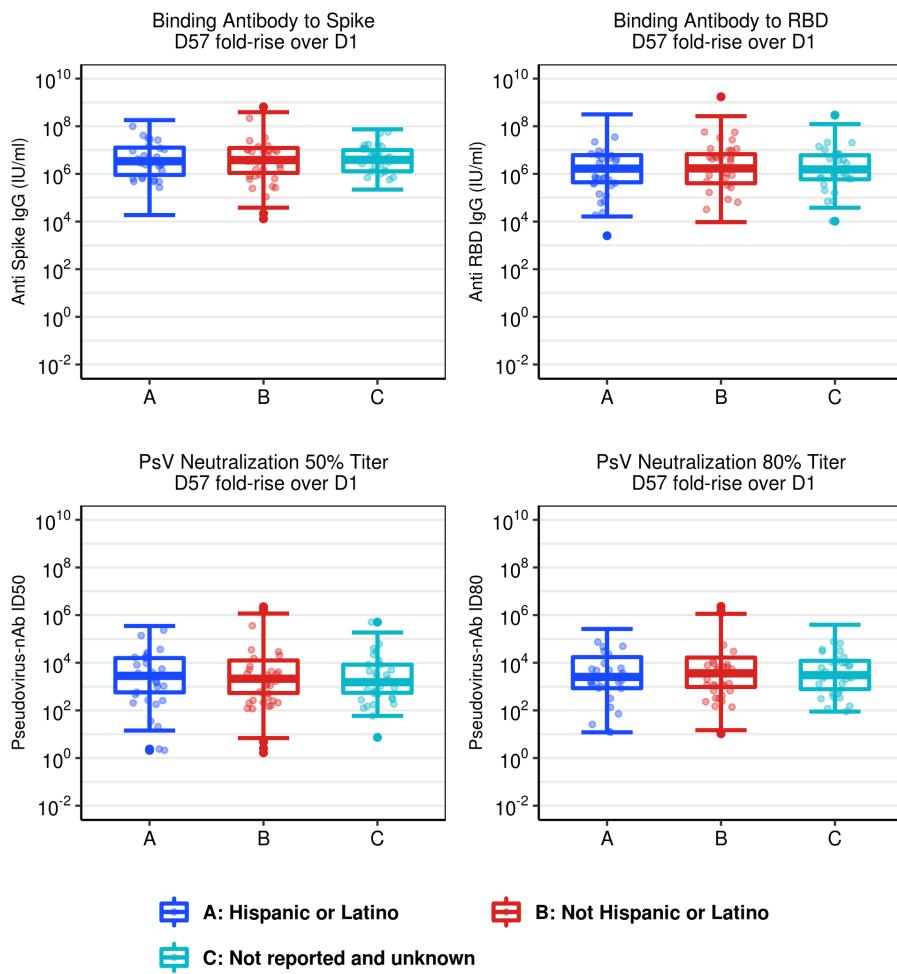


Figure 2.127: Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by ethnicity.

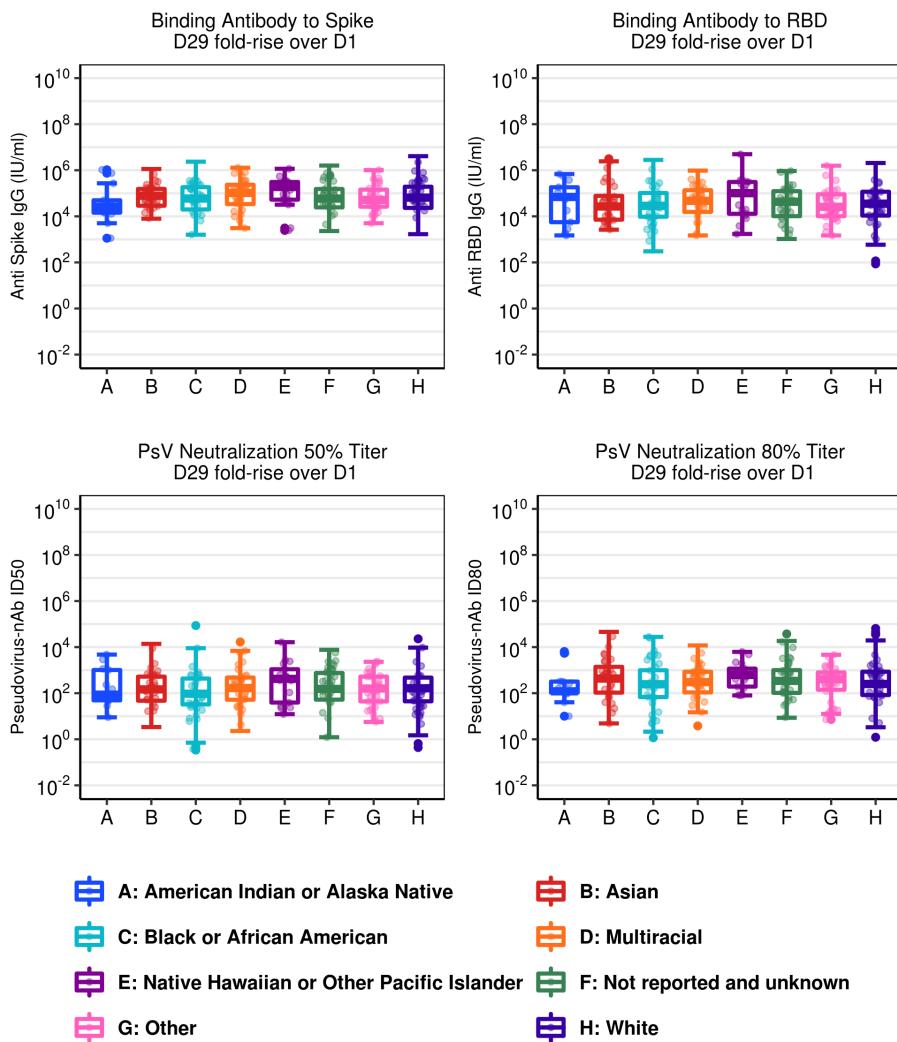


Figure 2.128: Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by race.

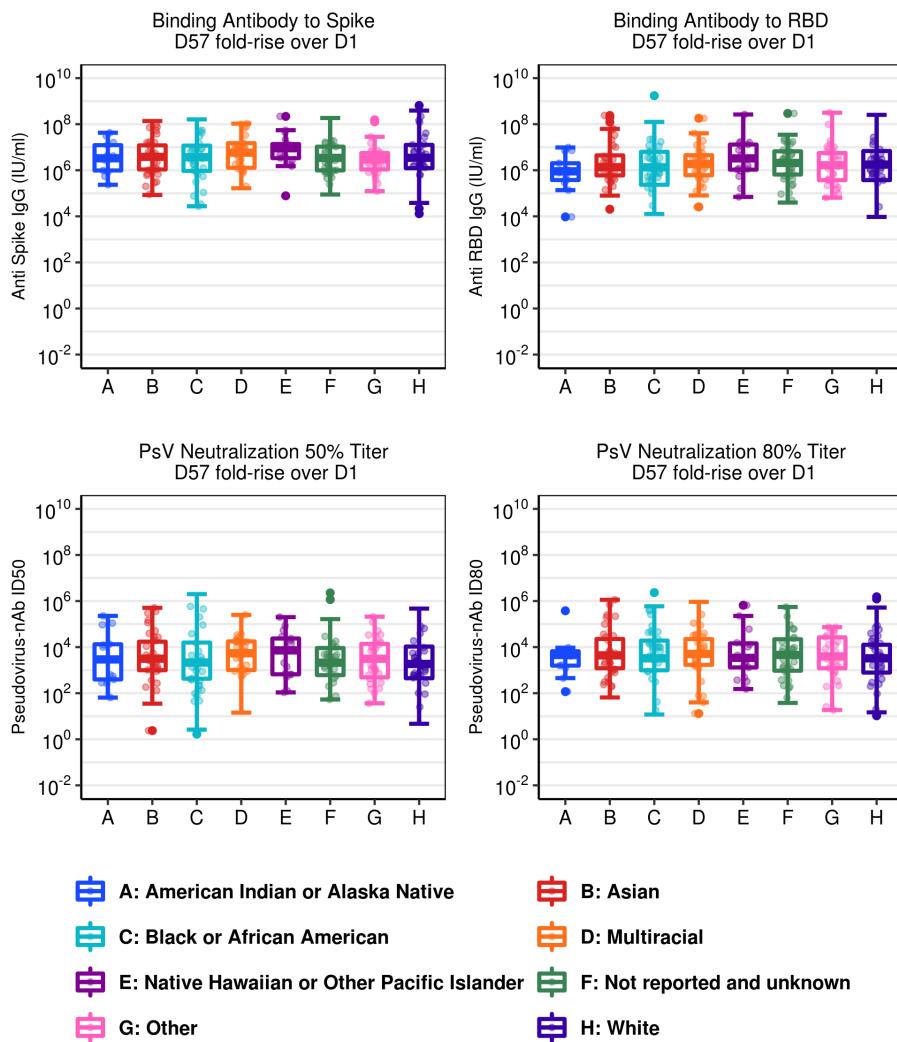


Figure 2.129: Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by race.

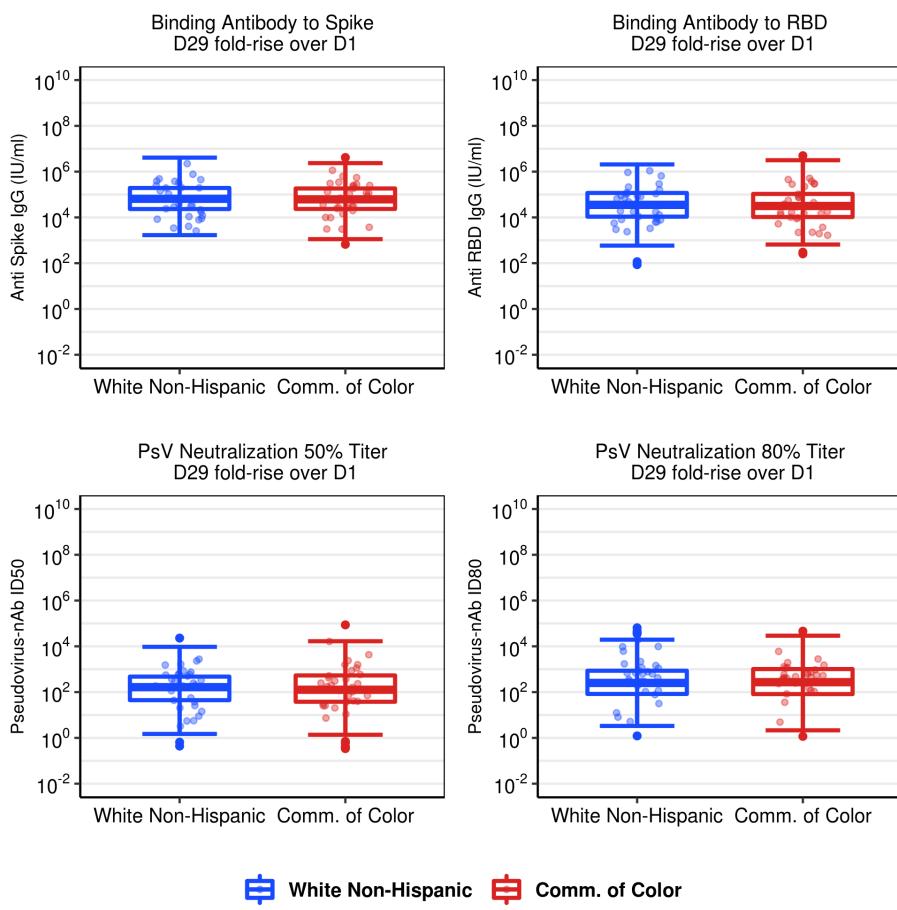


Figure 2.130: Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by dichotomous classification of race and ethnic group.

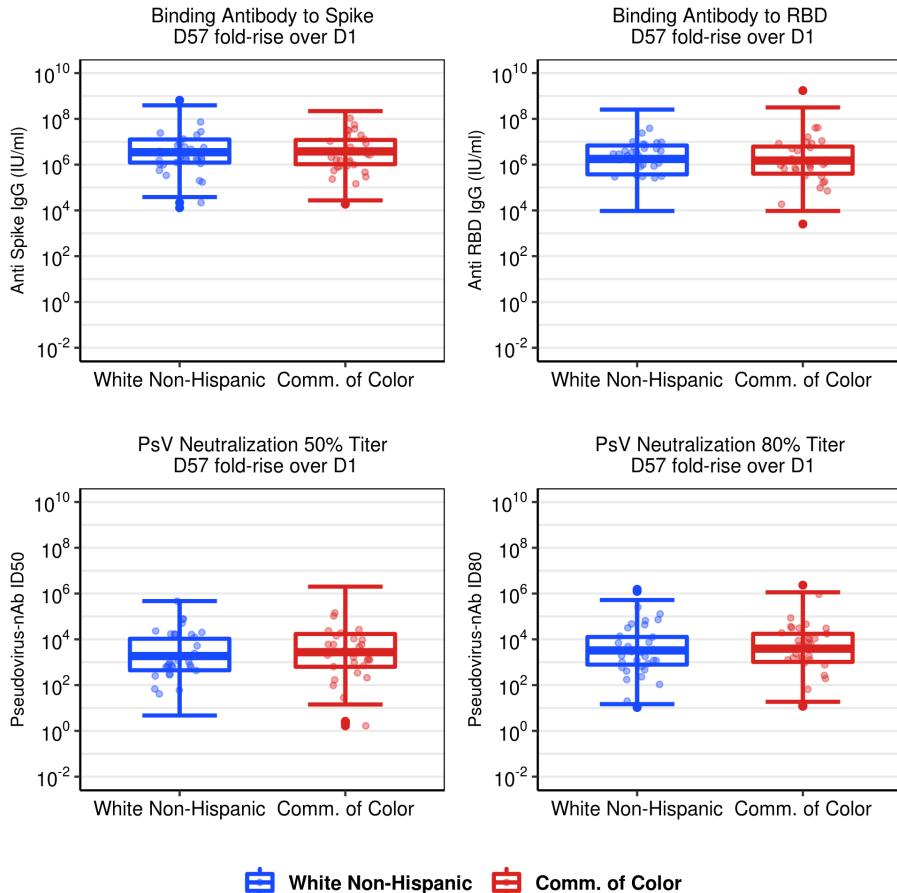


Figure 2.131: Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by dichotomous classification of race and ethnic group.

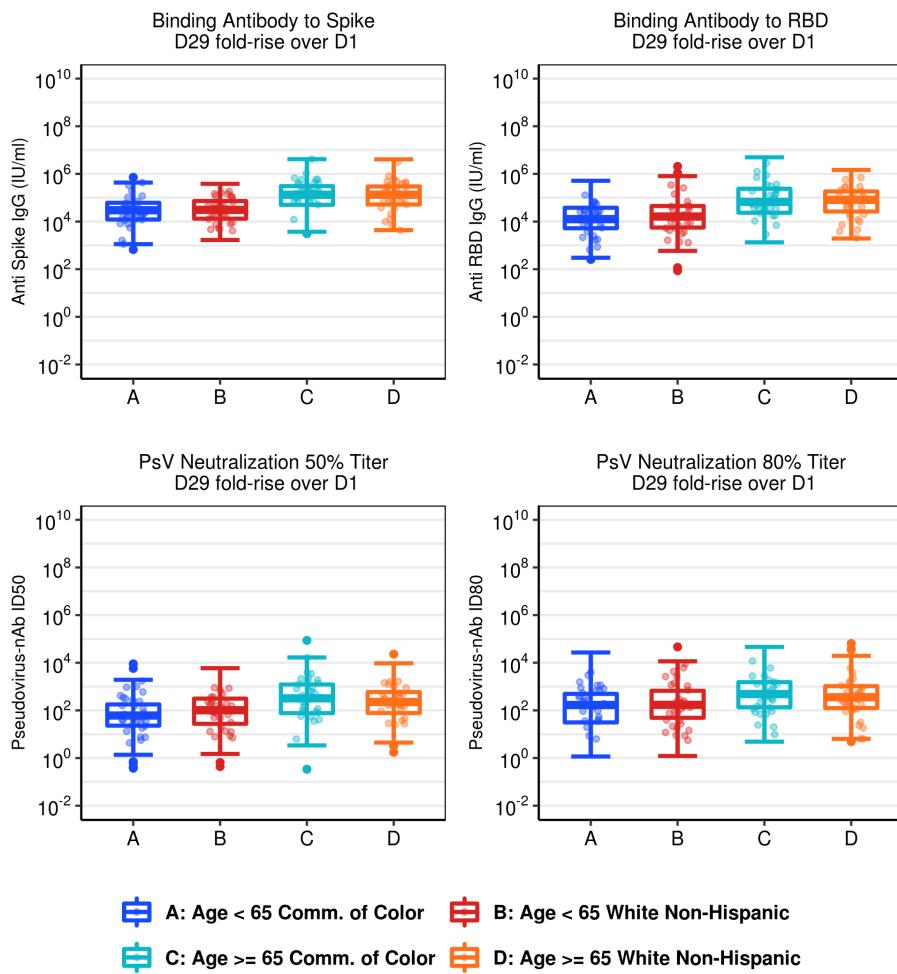


Figure 2.132: Boxplots of D29 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and dichotomous classification of race and ethnic group.

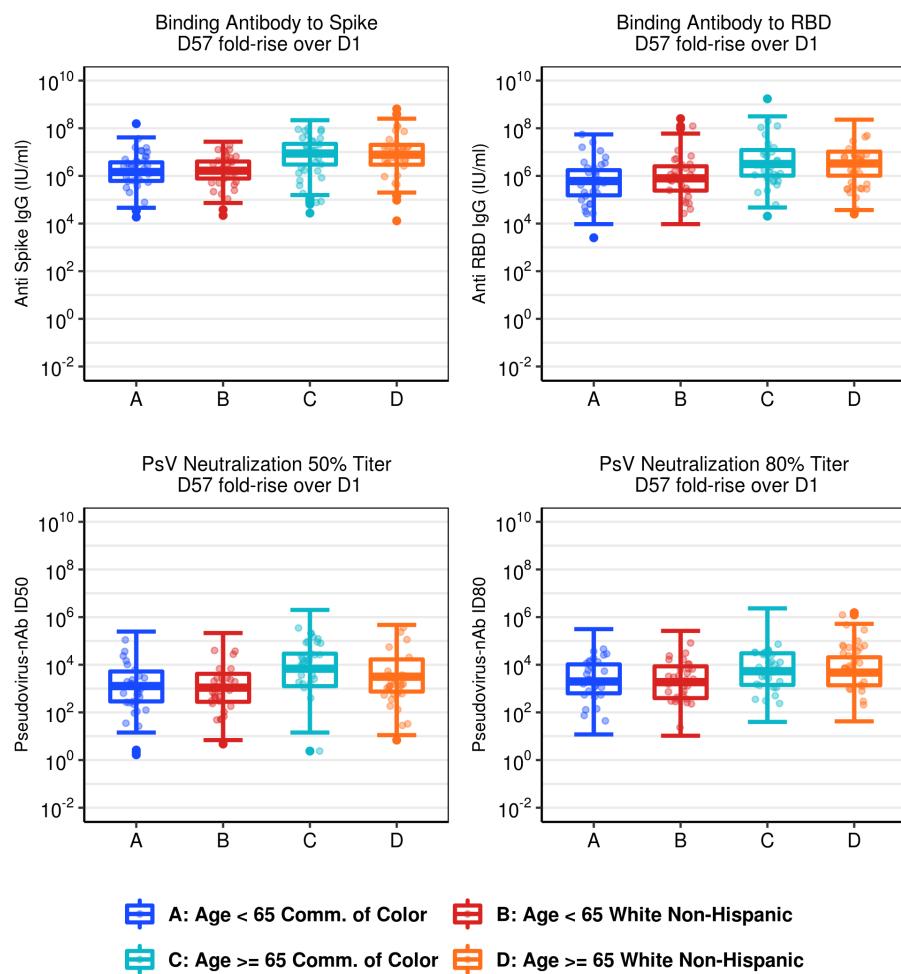


Figure 2.133: Boxplots of D57 fold-rise over D1 Ab markers: Baseline negative vaccine arm by age and dichotomous classification of race and ethnic group.

## 2.7.2 Baseline SARS-CoV-2 positive

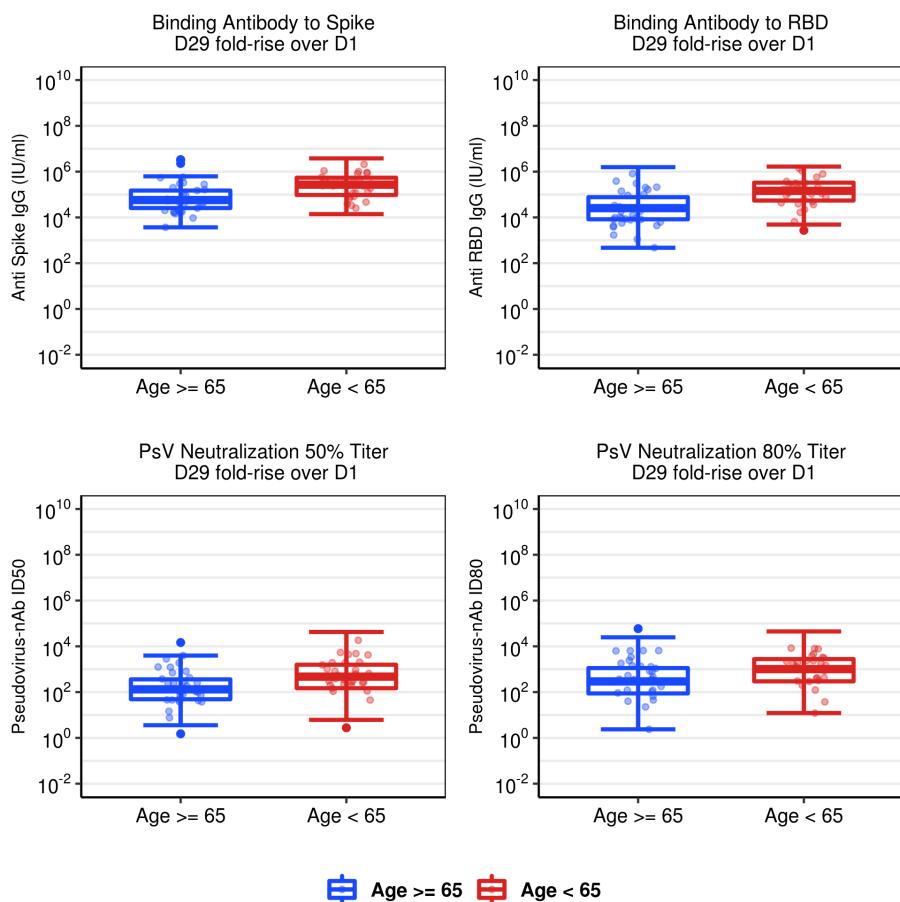


Figure 2.134: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age group.

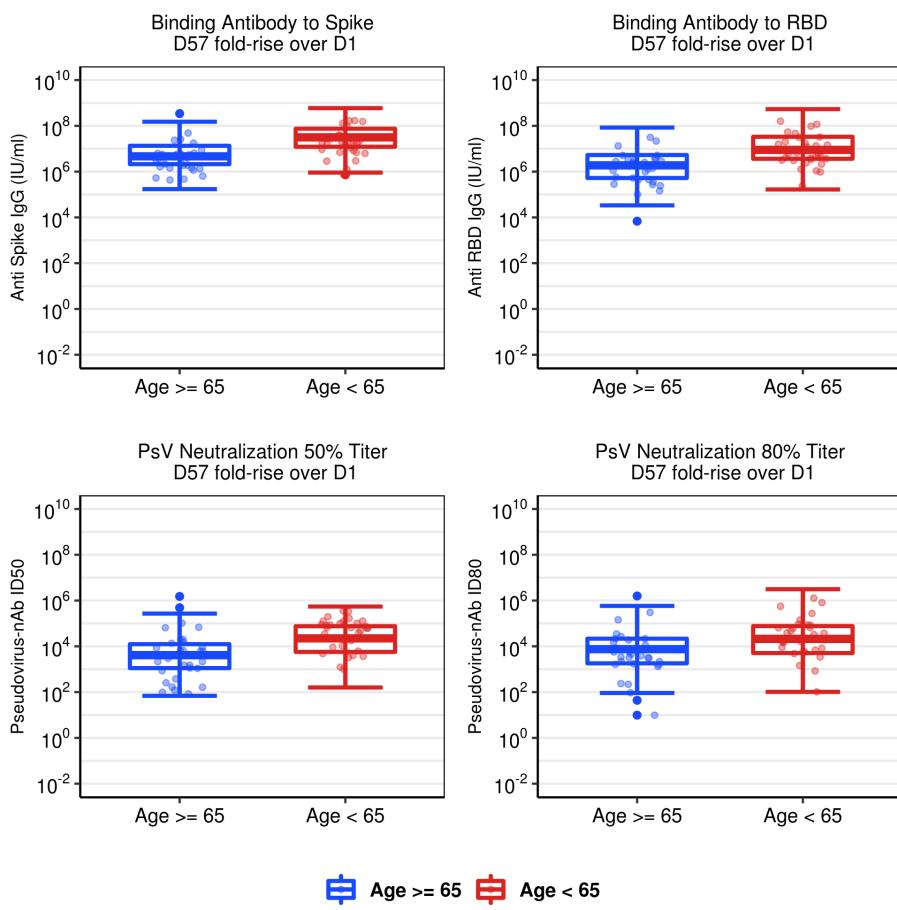


Figure 2.135: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age group.

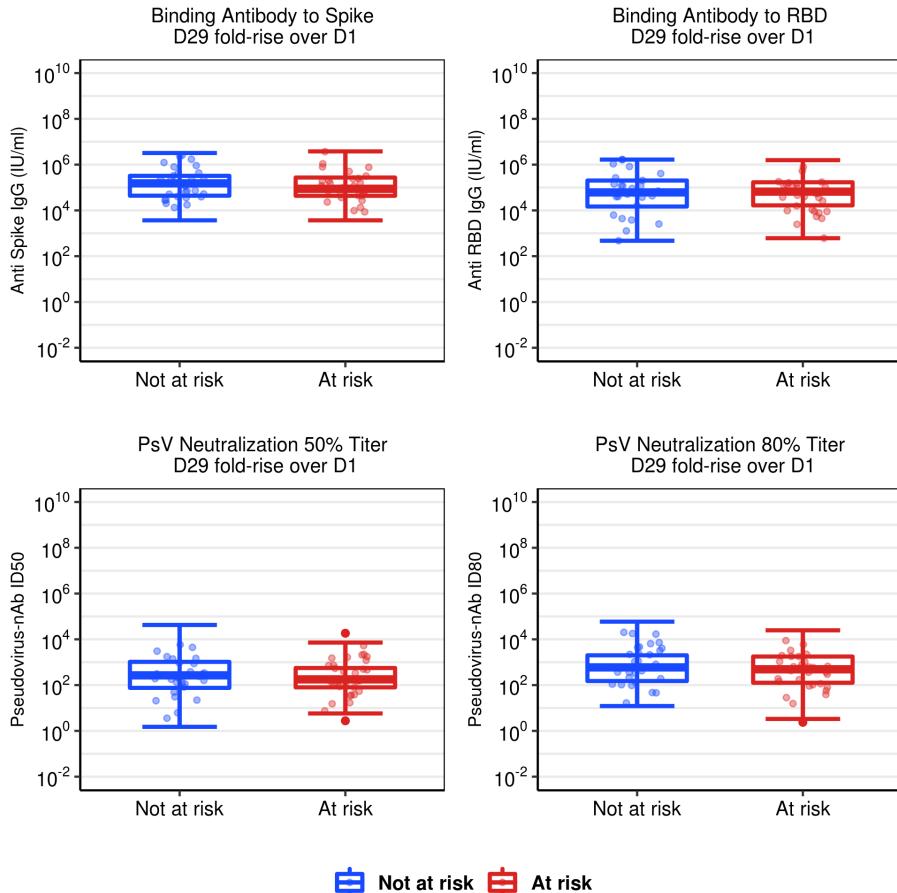


Figure 2.136: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition.

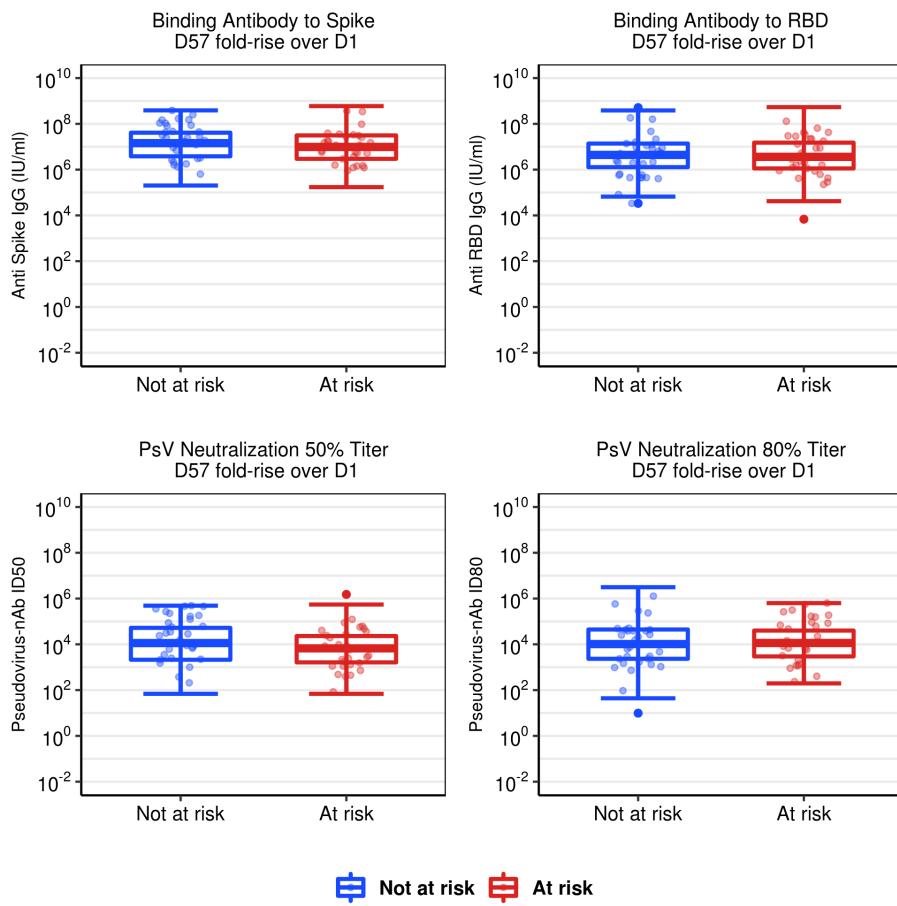


Figure 2.137: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by high-risk condition.

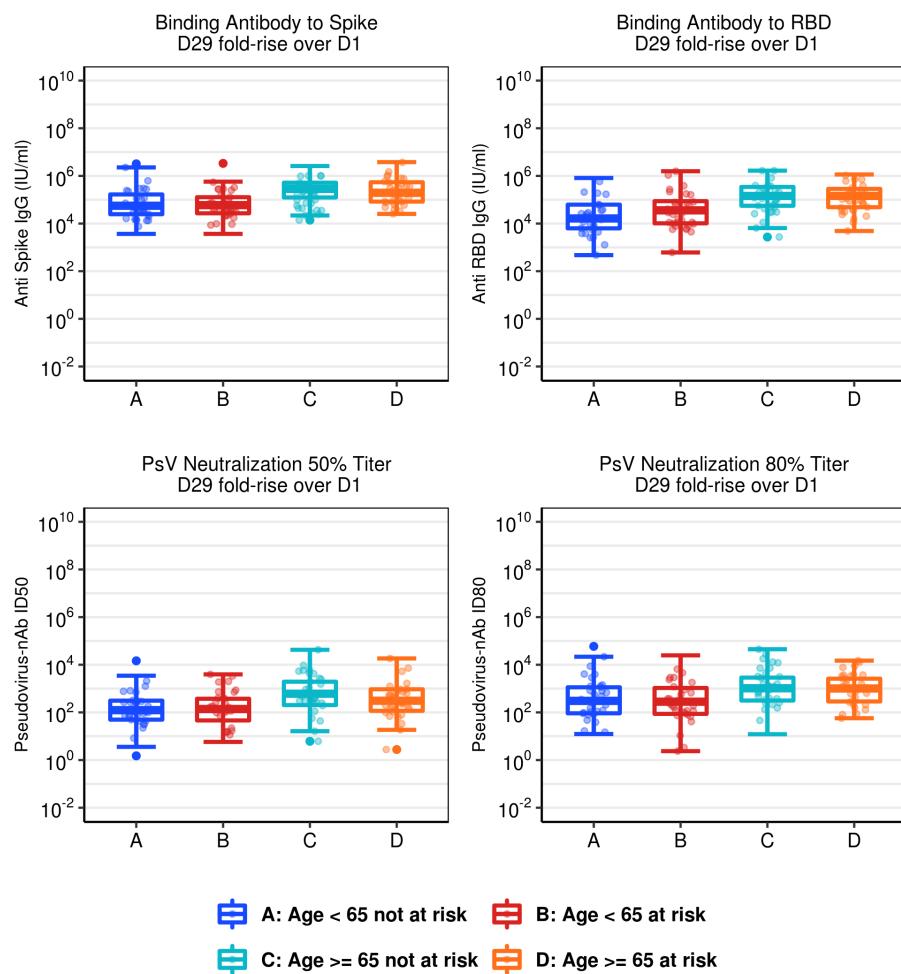


Figure 2.138: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition.

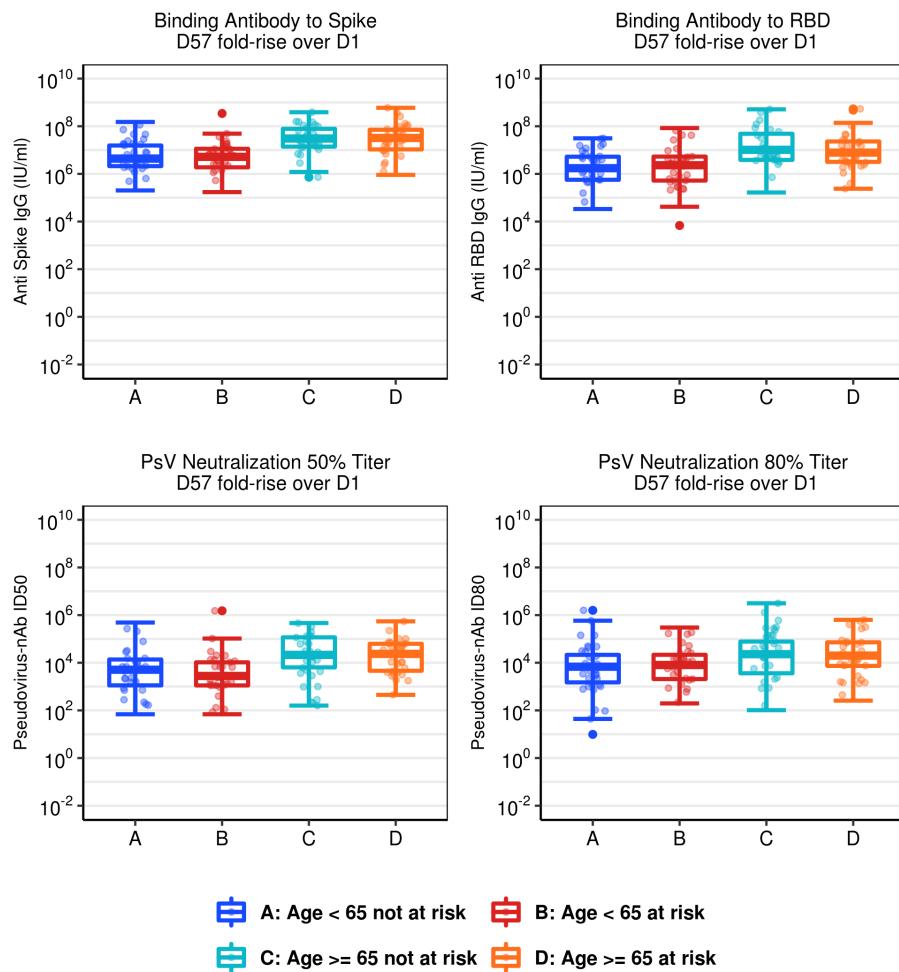


Figure 2.139: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and high-risk condition.

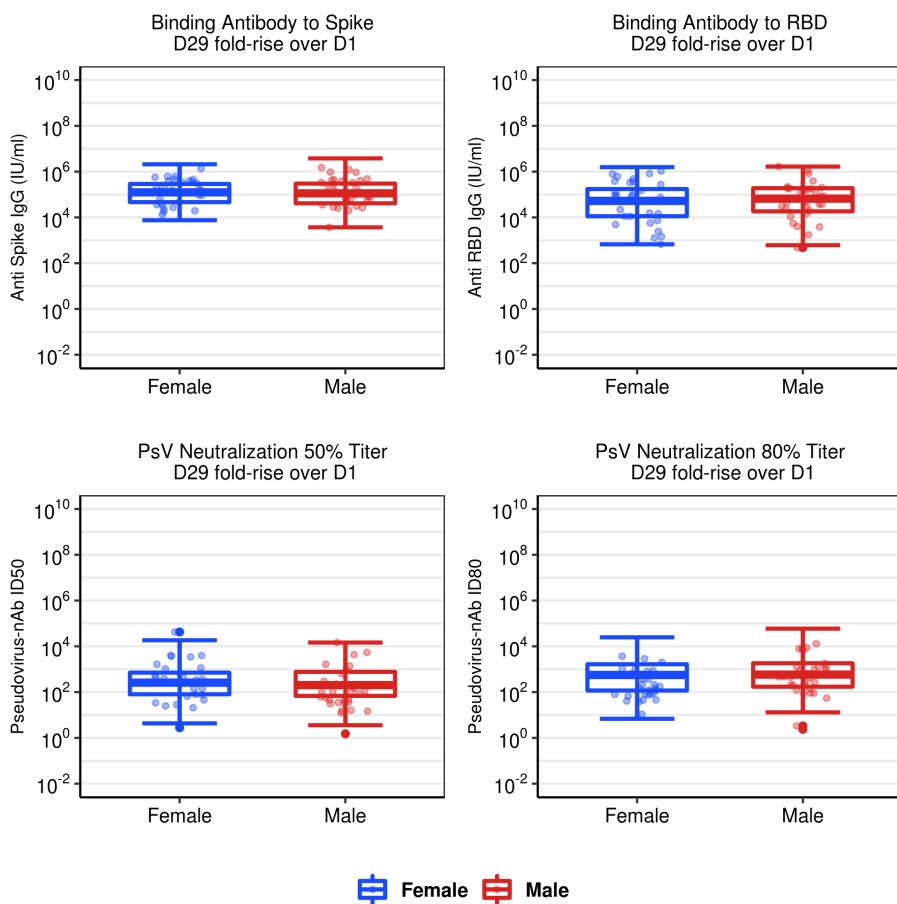


Figure 2.140: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth.

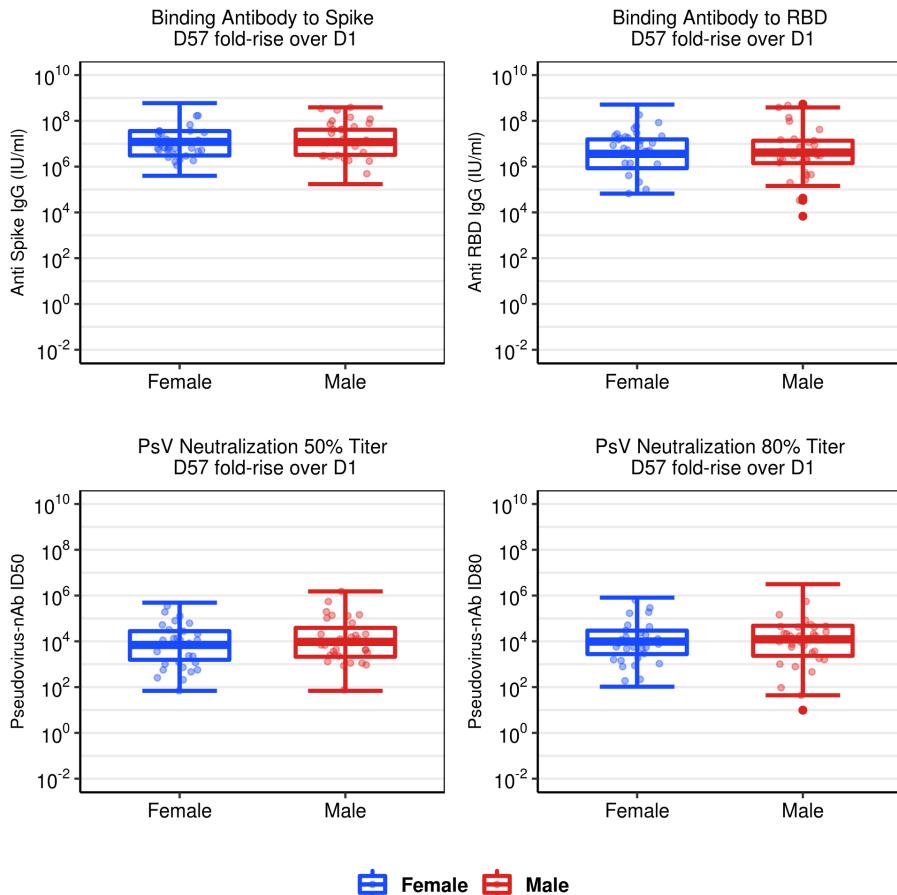


Figure 2.141: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by sex assigned at birth.

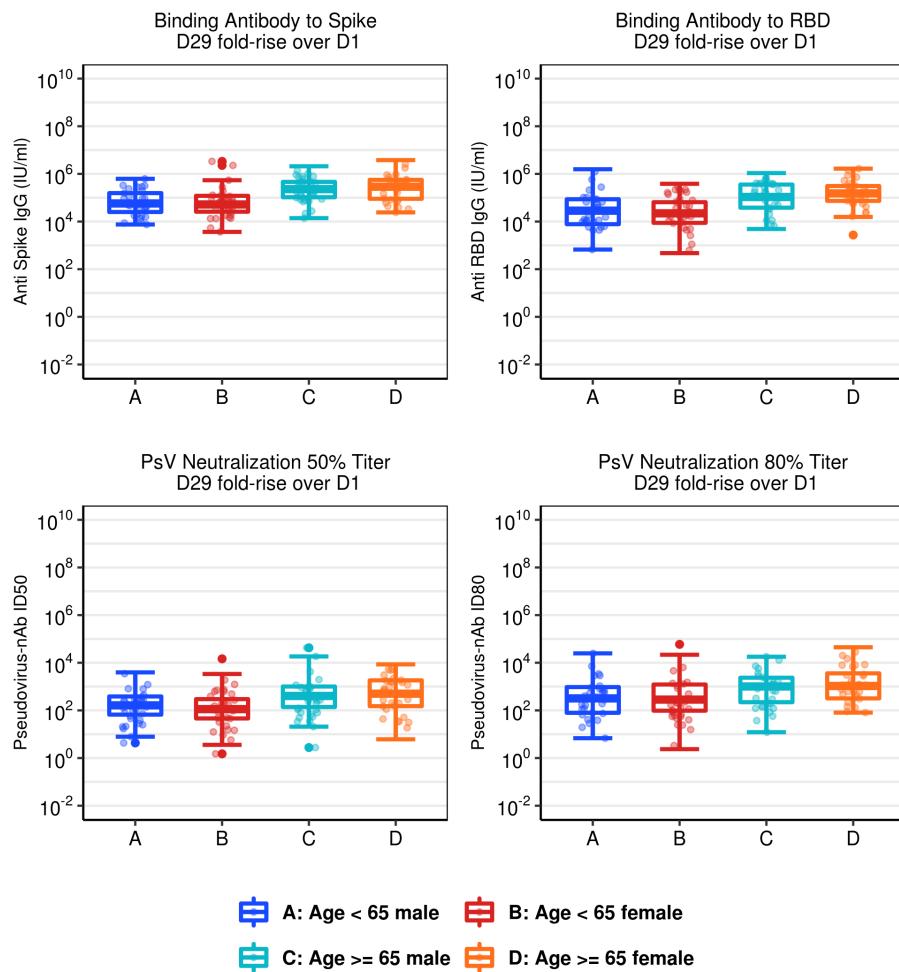


Figure 2.142: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth.

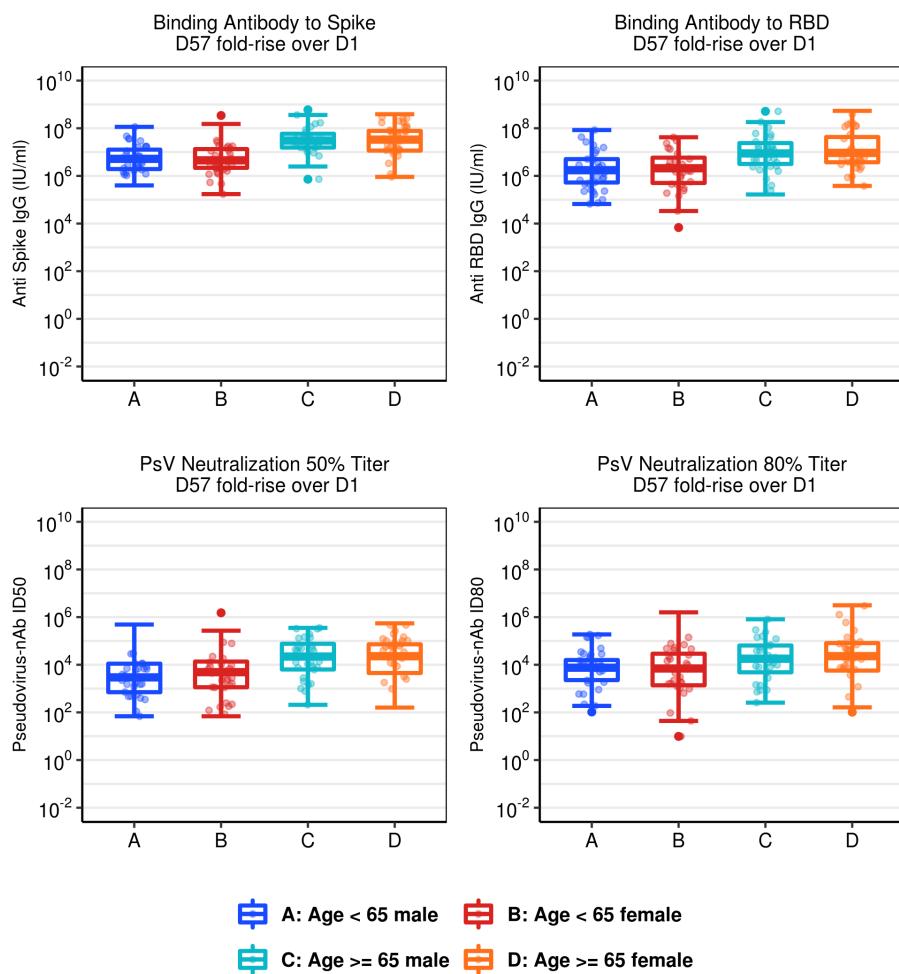


Figure 2.143: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and sex assigned at birth.

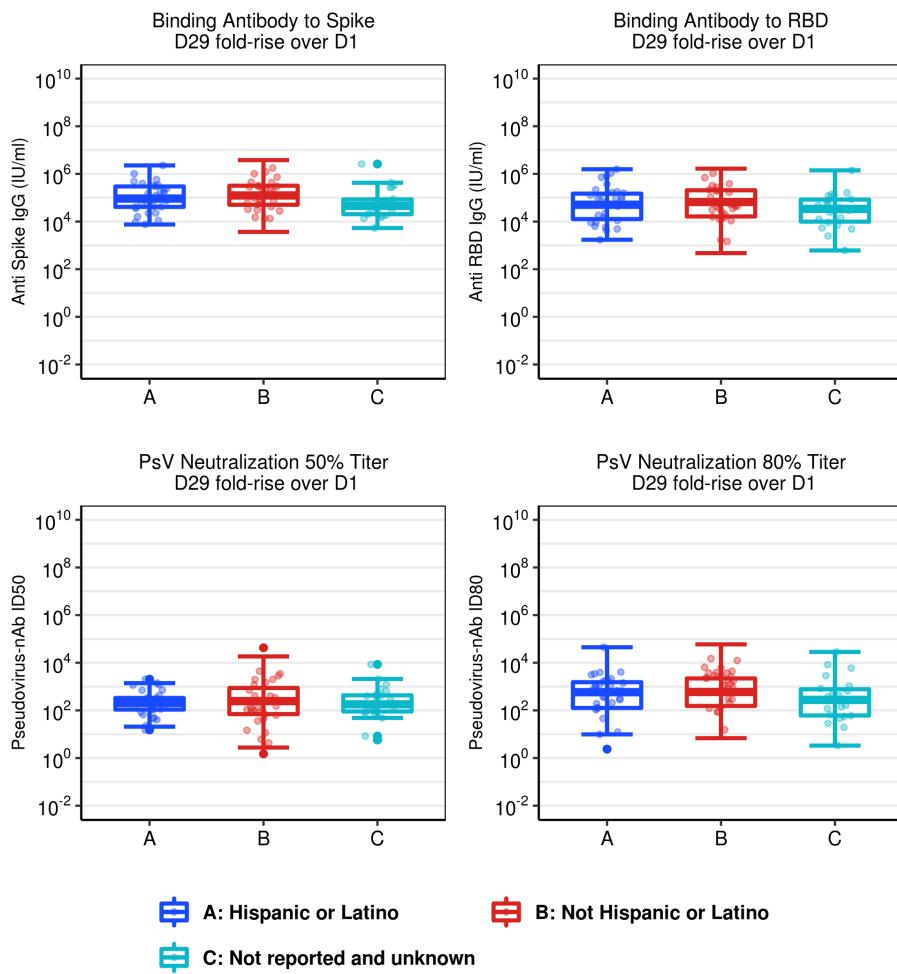


Figure 2.144: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity.

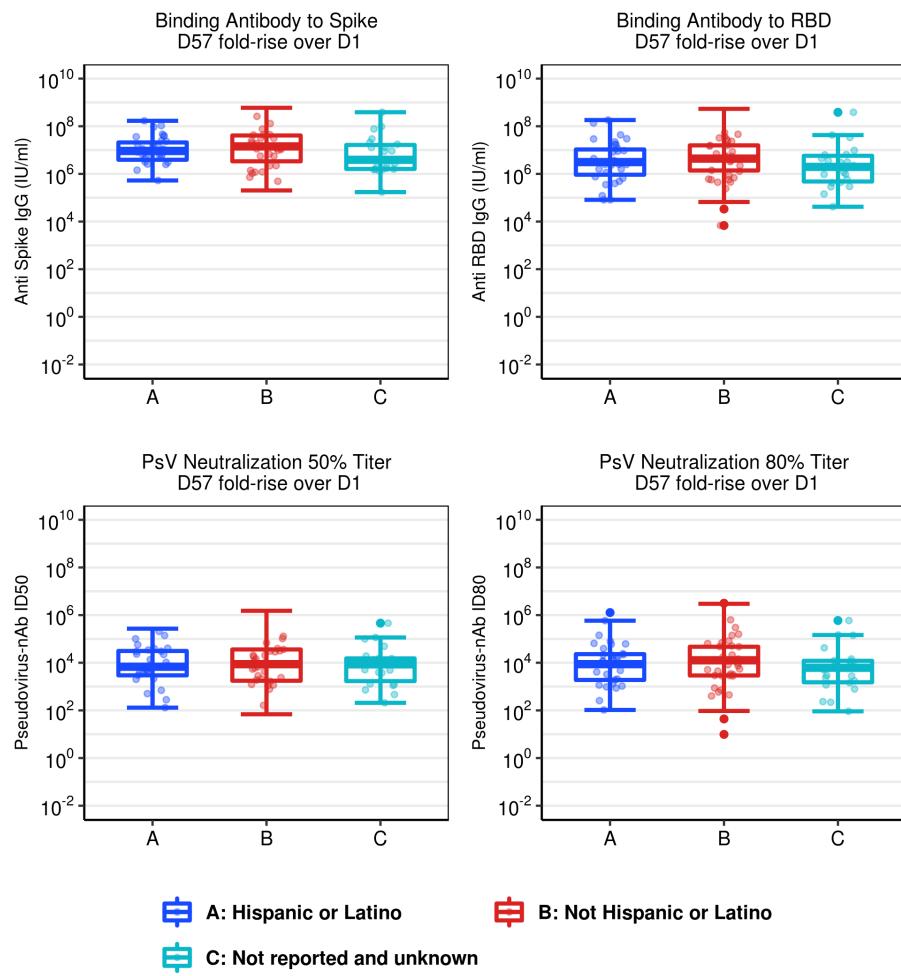


Figure 2.145: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by ethnicity.

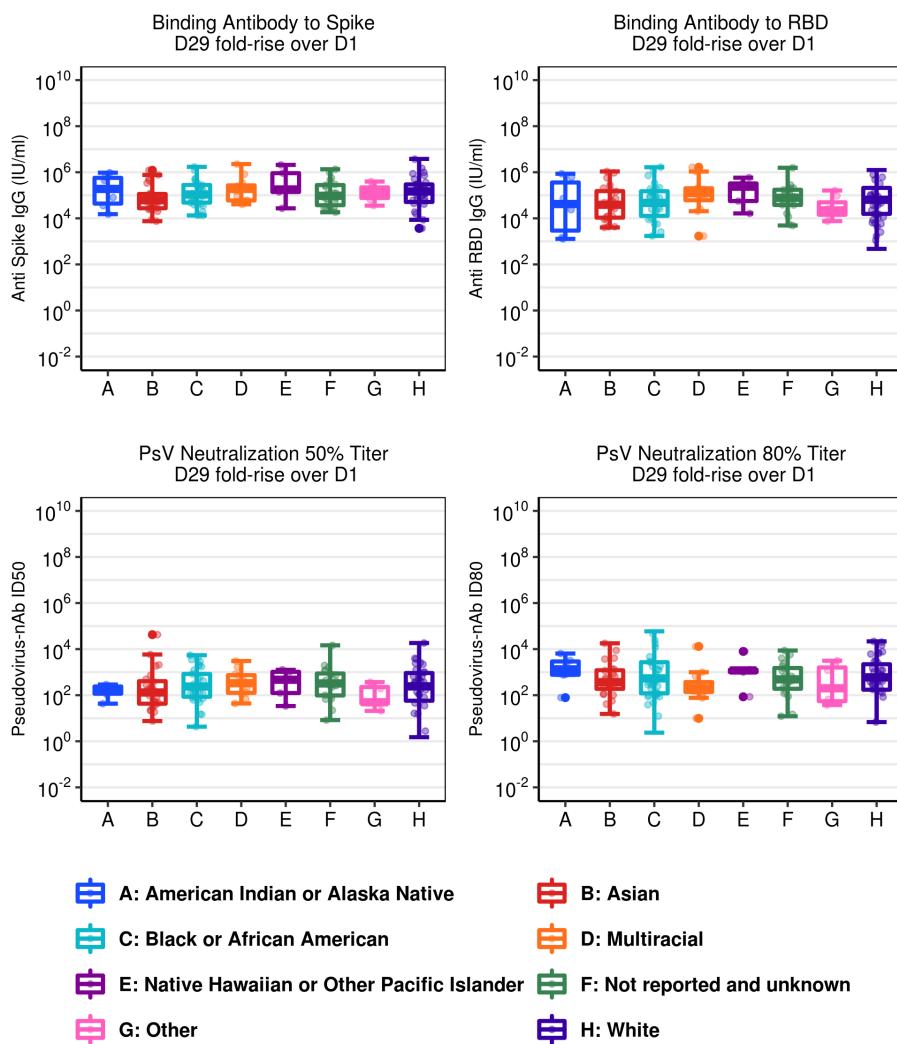


Figure 2.146: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by race.

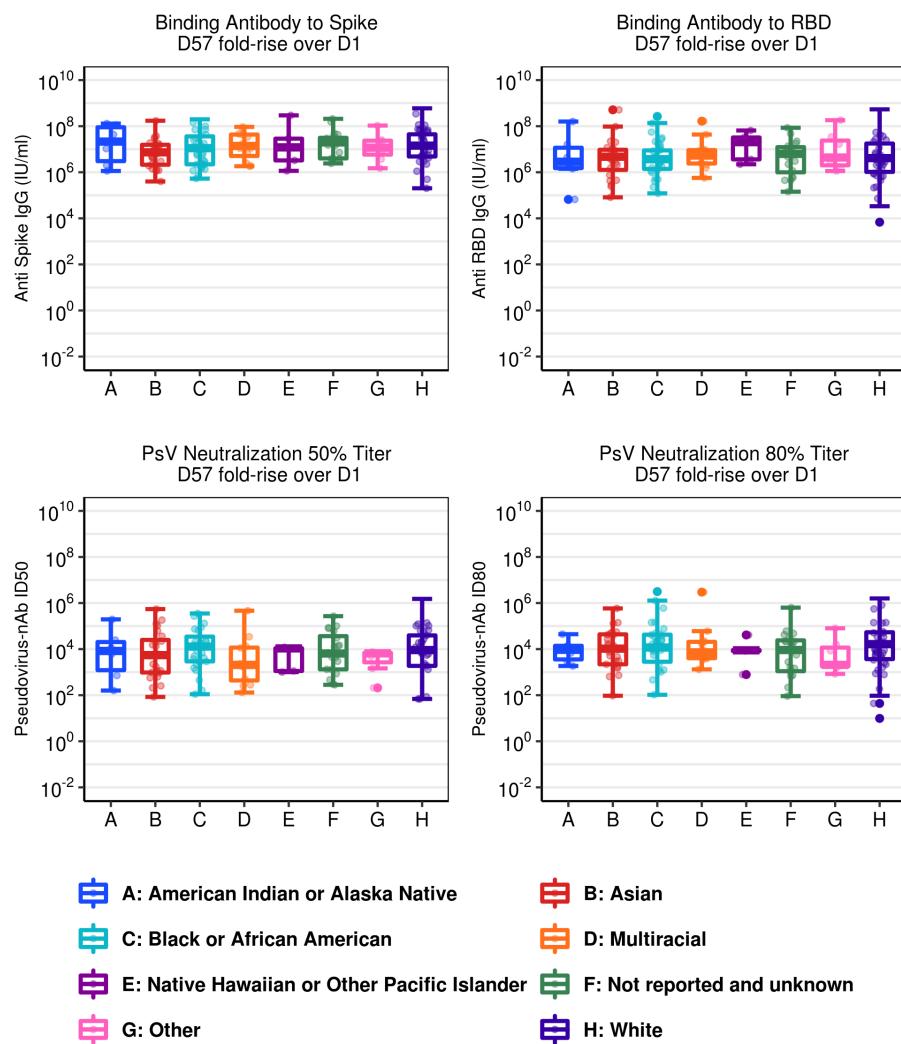


Figure 2.147: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by race.

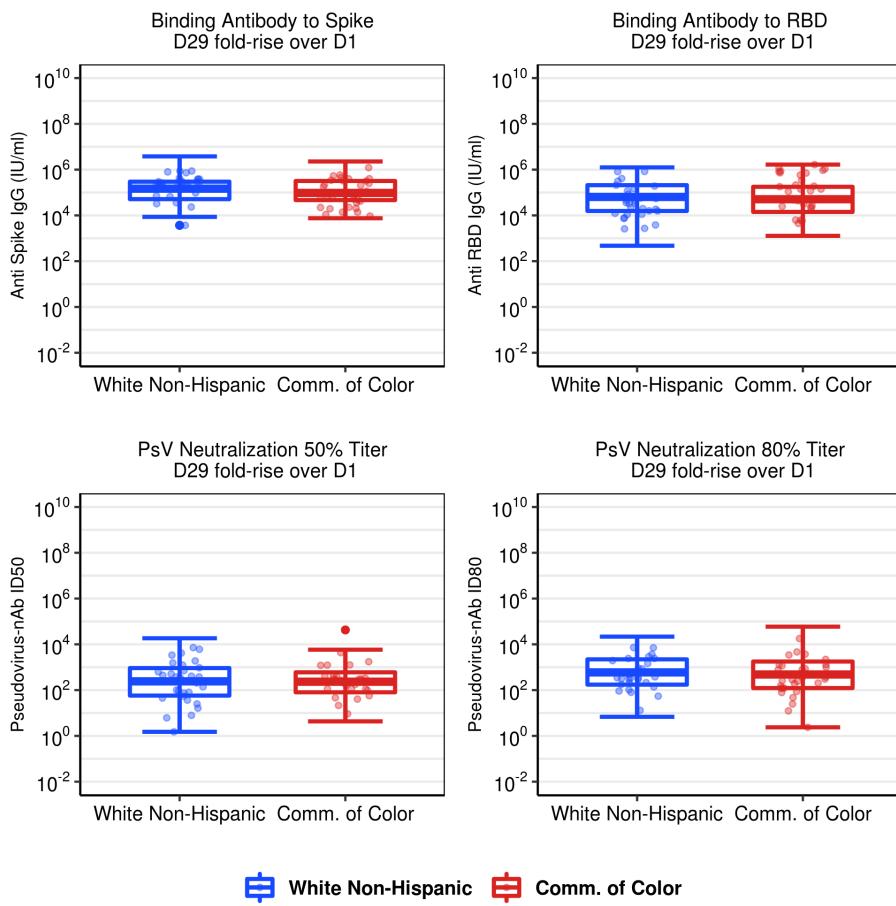


Figure 2.148: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group.

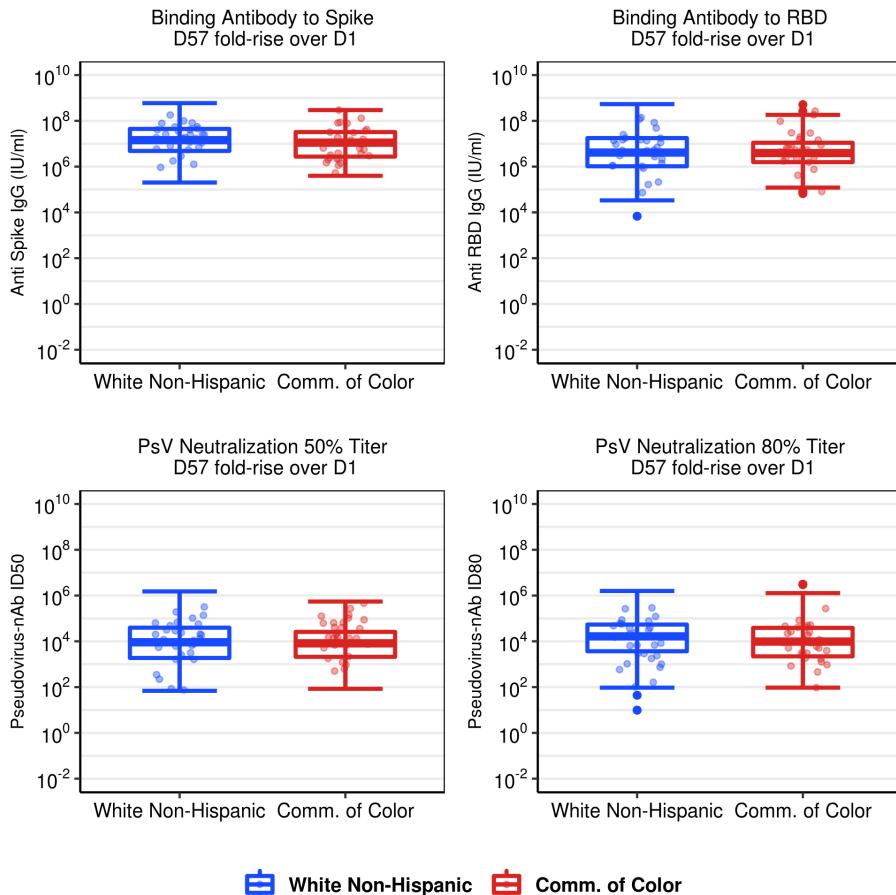


Figure 2.149: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by dichotomous classification of race and ethnic group.

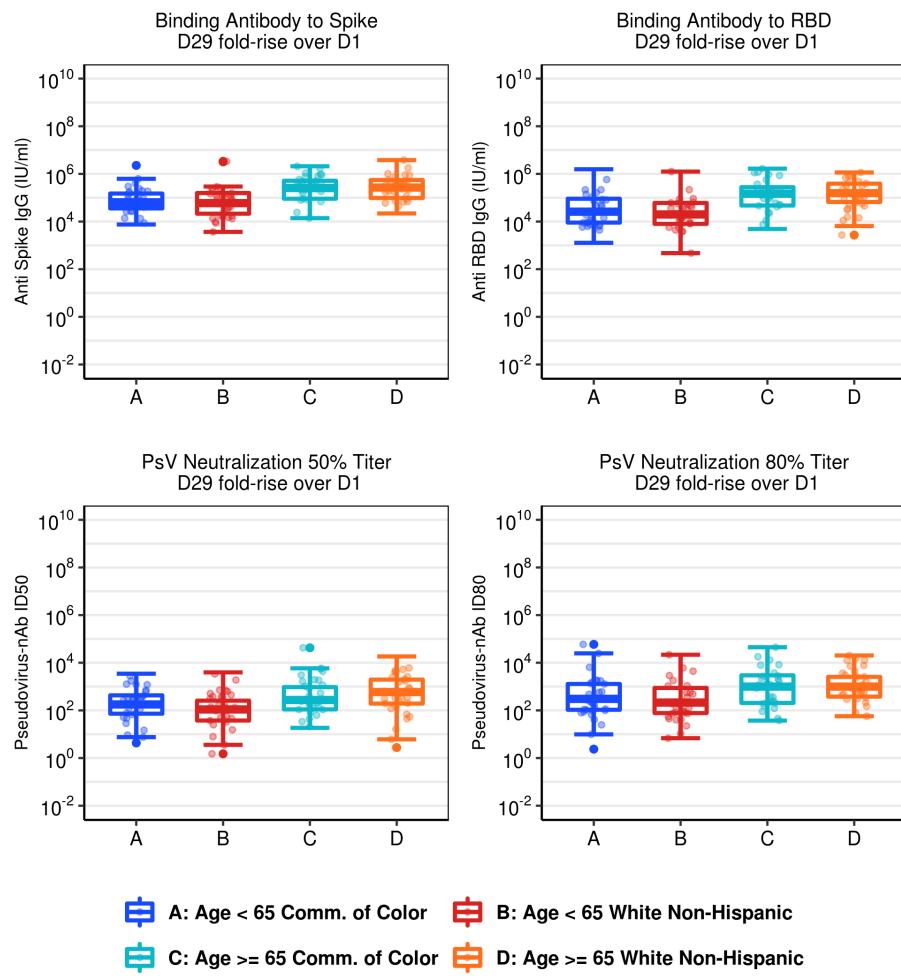


Figure 2.150: Boxplots of D29 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group.

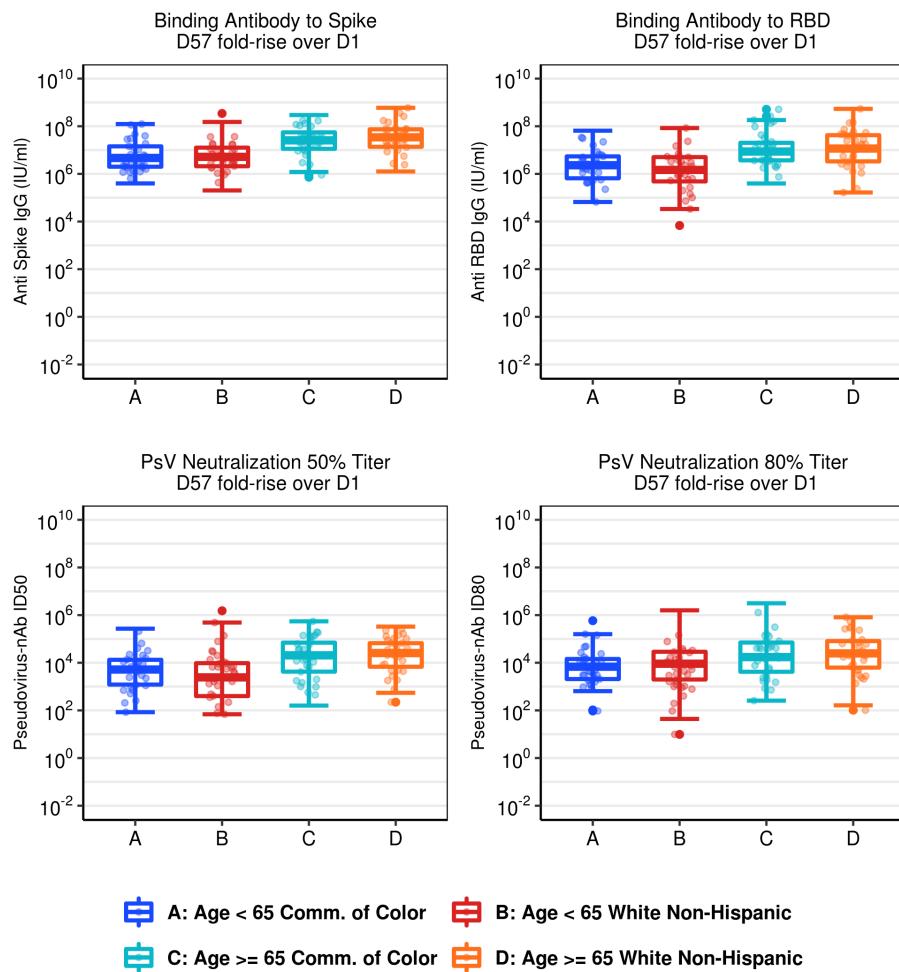


Figure 2.151: Boxplots of D57 fold-rise over D1 Ab markers: baseline positive vaccine arm by age and dichotomous classification of race and ethnic group.