**SUPPLEMENTARY MATERIAL**

Table 1: Complete multivariable analysis for MMR, HibMenC, MenB booster and PCV13 booster within the COVID and Post-COVID cohorts

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| --- | --- | --- |
|  | VARIABLES | COHORTS |
|  | COVID  | POST-COVID |
|  | Odds Ratio [95% CI] | P-value | Odds Ratio [95% CI] | P-value |
| MMR  | Black or Black British | 0.40 [0.18 0.90]  | 0.02 | 0.15 [0.03 0.57] | 0.009 |
| Low IOD (1-3) | 0.57 [0.29 1.12] | 0.1 | 0.48 [0.24 0.93] | 0.03 |
| HibMenC | Black or Black British | 0.44 [0.20 0.99]  | 0.04 | 0.15 [0.03 0.55] | 0.008 |
| Low IOD (1-3) | 0.53 [0.27 1.04] | 0.06 | 0.54 [0.27 1.04] | 0.06 |
| MenB booster | Black or Black British | 0.36 [0.17 0.78]  | 0.008 | 0.20 [0.05 0.65] | 0.009 |
| Low IOD (1-3) | 0.65 [0.34 1.22] | 0.1 | 0.52 [0.27 0.99] | 0.04 |
| PCV13 booster | Black or Black British | 0.39 [0.18 0.85]  | 0.02 | 0.29 [0.07 1.05] | 0.07 |
| Low IOD (1-3) | 0.68 [0.36 1.29] | 0.2 | 0.44 [0.23 0.84] | 0.01 |