



<b>WA1 RBD<sup>d</sup></b>								
Unvaccinated	Ref		Ref		Ref		Ref	
Vaccinated <sup>e</sup>	173.7 (68.2, 442.15)	<0.0001	188.7 (73.3, 485.9)	<0.0001	157.6 (63.6, 390.4)	<0.0001	253.3 (86.4, 742.6)	<0.0001
<b>BA.2 RBD<sup>f</sup></b>								
Unvaccinated	Ref		Ref		Ref		Ref	
Vaccinated <sup>e</sup>	39.2 (20.0, 76.6)	<0.0001	36.9 (18.9, 71.9)	<0.0001	34.0 (17.5, 66.0)	<0.0001	37.7 (18.6, 76.1)	<0.0001

\*Abbreviation: CI – confidence interval

a: Adjusted for overweight status, age category, symptomatic infection, and gender (collapsed into two categories to account for sparse cells)

b: Using Firth's method for bias correction

c: Excluding unvaccinated participants with positive baseline qualitative results

d: WA1 RBD antibody area under the curve (AUC) value

e: Vaccinated defined as 2 or more doses of the monovalent COVID-19 mRNA vaccine

**Supplemental table 3: Mean AUC values by days from vaccination to infection among PROTECT participants (n=166)**

<b>Days from vaccination to infection</b>	<b>WA1 RBD AUC mean (SD)</b>	<b>BA.2 RBD AUC mean (SD)</b>
<b>&lt;150 days</b>	0.015 (0.003)	0.011 (0.003)
<b>150+ days</b>	0.016 (0.003)	0.012 (0.003)

**Supplemental table 4: Days from vaccination to infection among vaccinated PROTECT participants (n=166)**

<b>Days from Vaccination to Infection<sup>a</sup></b>	<b>Mean (SD)</b>	<b>Minimum, Maximum</b>
Booster Dose	89.4 (67.9)	3, 183
Primary Series	135.5 (102.5)	20, 426

a: Considered fully vaccinated at 14 days from receipt of 2<sup>nd</sup> dose of the primary series.