

1 **Supplemental Table 1: COVID-19 Convalescent Plasma Donor Cohort Demographics**
2 **(N=44)**

	Mean (SD) or ratio
Age (years)	47 (15)
Sex Ratio (M:F)	1:1
Symptom onset to first serum collection (days)	54 (17)
Symptom onset to last serum collection (days)	105 (17)
Time between first and last serum collection (days)	52 (20)
Symptom onset date range	3/3/2020 to 5/4/2020

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5 **Supplemental Table 2: Longitudinal Models**

	Estimate (95% CI)	P value
Abbott NC IgG CIA		
Days from onset	-0.019 (-0.023, -0.016)	<0.001
Intercept	6.802 (6.147, 7.456)	<0.001
Random Intercept SD	1.952 (1.579, 2.425)	-
Residual SD	0.405 (0.336, 0.491)	-
Roche NC Total Ab ECLIA		
Days from onset	0.437 (0.305, 0.571)	<0.001
Intercept	45.121 (30.674, 59.569)	<0.001
Random Intercept SD	31.690 (24.767, 40.191)	-
Residual SD	16.676 (13.873, 20.167)	-
Roche RBD Total Ab ECLIA		
Days from onset	0.32 (0.02, 0.63)	0.036
Intercept	135.88 (109.12, 162.64)	<0.001
Random Intercept SD	73.29 (66.60, 80.65)	-
Residual SD	26.47 (21.64, 32.39)	-
Ortho S IgG CIA		
Days from onset	-0.036 (-0.047, -0.025)	<0.001
Intercept	15.900 (13.953, 17.848)	<0.001
Random Intercept SD	5.774 (4.663, 7.179)	-
Residual SD	1.469 (1.234, 1.757)	-
Euroimmun S1 IgG ELISA		
Days from onset	-0.017 (-0.027, -0.008)	<0.001
Intercept	6.166 (5.171, 7.161)	<0.001
Random Intercept SD	2.043 (1.583, 2.602)	-
Residual SD	1.274 (1.070, 1.523)	-
Genscript cPASS nAb		
Days from onset	-0.001 (-0.002, -0.001)	<0.001
Intercept	0.828 (0.760, 0.897)	<0.001
Random Intercept SD	0.149 (0.116, 0.188)	-
Residual SD	0.083 (0.070, 0.100)	-
Mayo Clinic nAb^b		
Days from onset	-0.014 (-0.020, -0.008)	<0.001
Intercept	9.097 (8.520, 9.672)	<0.001
Random Intercept SD	1.095 (0.840, 1.403)	-
Residual SD	0.767 (0.645, 0.916)	-
NeuCovix-HT nAb		
Days from onset	-0.06 (-0.10, -0.03)	<0.001
Intercept	11.02 (7.93, 14.11)	<0.001
Random Intercept SD	6.09 (5.13, 7.23)	-
Residual SD	3.46 (3.02, 3.96)	-

6 ^aTwo-sided p-values are reported with no correction for multiple testing.

7 ^bMayo Clinic nAb was analyzed on the log₂ scale.

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