Table A1. Results from multivariable logistic regression model (outcome = Nucleocapsid antibody seropositive) from blood donors across Canada between January and November 2021.

| Variables          | Odds Ratio (OR) | P-value  | 95% CI     |
|--------------------|-----------------|----------|------------|
| **Ethnicity**      |                 |          |            |
| White              | Ref.            | -        | -          |
| Racialized Groups  | 1.45            | < 0.001  | 1.35 – 1.56|
| **Sex**            |                 |          |            |
| Female             | Ref.            | -        | -          |
| Male               | 1.11            | 0.002    | 1.04 – 1.18|
| **Age Group**      |                 |          |            |
| 17 – 29            | Ref.            | -        | -          |
| 30 – 39            | 0.73            | < 0.001  | 0.67 – 0.79|
| 40 – 59            | 0.60            | < 0.001  | 0.56 – 0.65|
| 60 – 69            | 0.37            | < 0.001  | 0.34 – 0.41|
| 70+                | 0.37            | < 0.001  | 0.32 – 0.44|
| **Material Deprivation** |            |          |            |
| Quintile 1<sup>a</sup> | Ref.        | -        | -          |
| Quintile 2         | 1.19            | < 0.001  | 1.09 – 1.30|
| Quintile 3         | 1.30            | < 0.001  | 1.18 – 1.42|
| Quintile 4         | 1.75            | < 0.001  | 1.59 – 1.92|
| Quintile 5<sup>b</sup> | 1.90       | < 0.001  | 1.70 – 2.12|
| **Social Deprivation** |            |          |            |
| Quintile 1<sup>a</sup> | Ref.        | -        | -          |
| Quintile 2         | 0.88            | 0.005    | 0.80 – 0.96|
| Quintile 3         | 0.78            | < 0.001  | 0.71 – 0.86|
| Quintile 4         | 0.73            | < 0.001  | 0.67 – 0.80|
| Quintile 5<sup>b</sup> | 0.74       | < 0.001  | 0.68 – 0.82|
| **Region**         |                 |          |            |
| British Columbia   | 0.96            | 0.38     | 0.87 – 1.05|
| Alberta            | 2.00            | < 0.001  | 1.86 – 2.15|
| Prairies           | 1.37            | < 0.001  | 1.24 – 1.51|
| Ontario            | Ref.            | -        | -          |
| Atlantic Canada    | 0.14            | < 0.001  | 0.11 – 0.17|
| **Month**          |                 |          |            |
| January            | Ref.            | -        | -          |
| March              | 1.36            | < 0.001  | 1.20 – 1.54|
| April              | 1.44            | < 0.001  | 1.28 – 1.64|
| May                | 1.80            | < 0.001  | 1.61 – 2.02|
| June               | 2.04            | < 0.001  | 1.82 – 2.28|
| July               | 1.91            | < 0.001  | 1.66 – 2.20|
| August             | 1.83            | < 0.001  | 1.59 – 2.10|
| September          | 2.04            | < 0.001  | 1.79 – 2.34|
| October            | 2.05            | < 0.001  | 1.80 – 2.34|
| November           | 2.50            | < 0.001  | 2.20 – 2.84|
*Note: Ref. = Referent in the model

a Least deprived

b Most deprived
Table A2. Results from multivariable logistic regression model (outcome = Spike antibody seropositive) from blood donors across Canada between January and November 2021.

| Variables          | Odds Ratio (OR) | P-value  | 95% CI     |
|--------------------|-----------------|----------|------------|
| **Ethnicity**      |                 |          |            |
| White              | Ref.            |          | -          |
| Racialized Groups  | 1.15            | < 0.001  | 1.09 – 1.22|
| **Sex**            |                 |          |            |
| Female             | Ref.            |          | -          |
| Male               | 0.71            | < 0.001  | 0.68 – 0.74|
| **Age Group**      |                 |          |            |
| 17 – 29            | Ref.            |          | -          |
| 30 – 39            | 1.01            | 0.76     | 0.95 – 1.08|
| 40 – 59            | 1.36            | < 0.001  | 1.29 – 1.44|
| 60 – 69            | 2.59            | < 0.001  | 2.43 – 2.76|
| 70+                | 3.72            | < 0.001  | 3.40 – 4.07|
| **Material Deprivation** |         |          |            |
| Quintile 1<sup>a</sup> | Ref.         |          | -          |
| Quintile 2         | 0.86            | < 0.001  | 0.82 – 0.91|
| Quintile 3         | 0.81            | < 0.001  | 0.77 – 0.86|
| Quintile 4         | 0.75            | < 0.001  | 0.70 – 0.79|
| Quintile 5<sup>b</sup> | 0.82         | < 0.001  | 0.76 – 0.88|
| **Social Deprivation** |          |          |            |
| Quintile 1<sup>a</sup> | Ref.         |          | -          |
| Quintile 2         | 0.95            | 0.08     | 0.89 – 1.01|
| Quintile 3         | 0.86            | < 0.001  | 0.81 – 0.92|
| Quintile 4         | 0.92            | 0.006    | 0.86 – 0.97|
| Quintile 5<sup>b</sup> | 0.87         | < 0.001  | 0.82 – 0.92|
| **Region**         |                 |          |            |
| British Columbia   | 0.92            | 0.007    | 0.87 – 0.98|
| Alberta            | 1.01            | 0.60     | 0.96 – 1.07|
| Prairies           | 1.00            | 0.89     | 0.94 – 1.08|
| Ontario            | Ref.            |          | -          |
| Atlantic Canada    | 0.64            | < 0.001  | 0.60 – 0.68|
| **Month**          |                 |          |            |
| January            | Ref.            |          | -          |
| March              | 3.34            | < 0.001  | 3.05 – 3.66|
| April              | 11.99           | < 0.001  | 11.08 – 12.97|
| May                | 61.53           | < 0.001  | 56.90 – 66.53|
| June               | 344.67          | < 0.001  | 314.97 – 377.16|
| July               | 565.79          | < 0.001  | 502.08 – 637.60|
| August             | 757.40          | < 0.001  | 667.12 – 859.91|
| September          | 901.13          | < 0.001  | 789.24 – 1028.89|
| October            | 1311.22         | < 0.001  | 1129.02 – 1522.82|
November 3224.55 < 0.001 2587.77 – 4018.02

*Note: Ref. = Referent in the model

a Least deprived

b Most deprived