

Supplemental Table 1 Number and percentage of donors and donations by demographic groups

	Donors (n=118,998)		Donations (n=165,236)	
	n	%	n	%
Sex				
<i>Female</i>	55,838	46.92	69,085	41.81
<i>Male</i>	63,160	53.08	96,151	58.19
Age Group				
17-24	13,073	10.99	15,499	9.38
25-39	34,217	28.75	44,335	26.83
40-59	42,006	35.30	59,480	36.00
60+	29,702	24.96	45,922	27.79
Province				
BC	21,001	17.65	27,571	16.69
Alberta	23,035	19.36	34,636	20.96
Saskatchewan	6,366	5.35	8,885	5.38
Manitoba	6,985	5.87	9,450	5.72
Ontario	48,711	40.93	66,731	40.39
New Brunswick	3,884	3.26	5,567	3.37
Nova Scotia	5,489	4.61	7,379	4.47
PEI	1,138	0.96	1,759	1.06
Newfoundland	2,128	1.79	2,940	1.78
Missing	216	0.18	318	0.19
Region				
BC	21,001	17.65	27,571	16.69
Alberta	23,035	19.36	34,636	20.96
Prairies	13,351	11.22	18,335	11.10
Ontario	48,711	40.93	66,731	40.39
Atlantic	12,639	10.62	17,645	10.68
Missing	261	0.22	318	0.19
Racialization				
Racialized	20,230	17.00	25,915	15.68
White	88,348	74.24	124,541	75.37
Missing	10,420	8.76	14,780	8.94
Social Deprivation				
1 (least deprived)	22,033	18.52	30,716	18.59
2	22,395	18.82	31,345	18.97
3	21,213	17.83	29,571	17.90
4	19,547	16.43	27,175	16.45
5 (most deprived)	19,993	16.80	27,691	16.76
Missing	13,817	11.61	18,738	11.34
Material Deprivation				
1 (least deprived)	30,989	26.04	44,202	26.75
2	25,537	21.46	35,678	21.59
3	21,610	18.16	29,837	18.06
4	17,043	14.32	23,431	14.18
5 (most deprived)	10,002	8.41	13,350	8.08
Missing	13,817	11.61	18,738	11.34

Supplemental Table 2 Percentage of positive donations by province

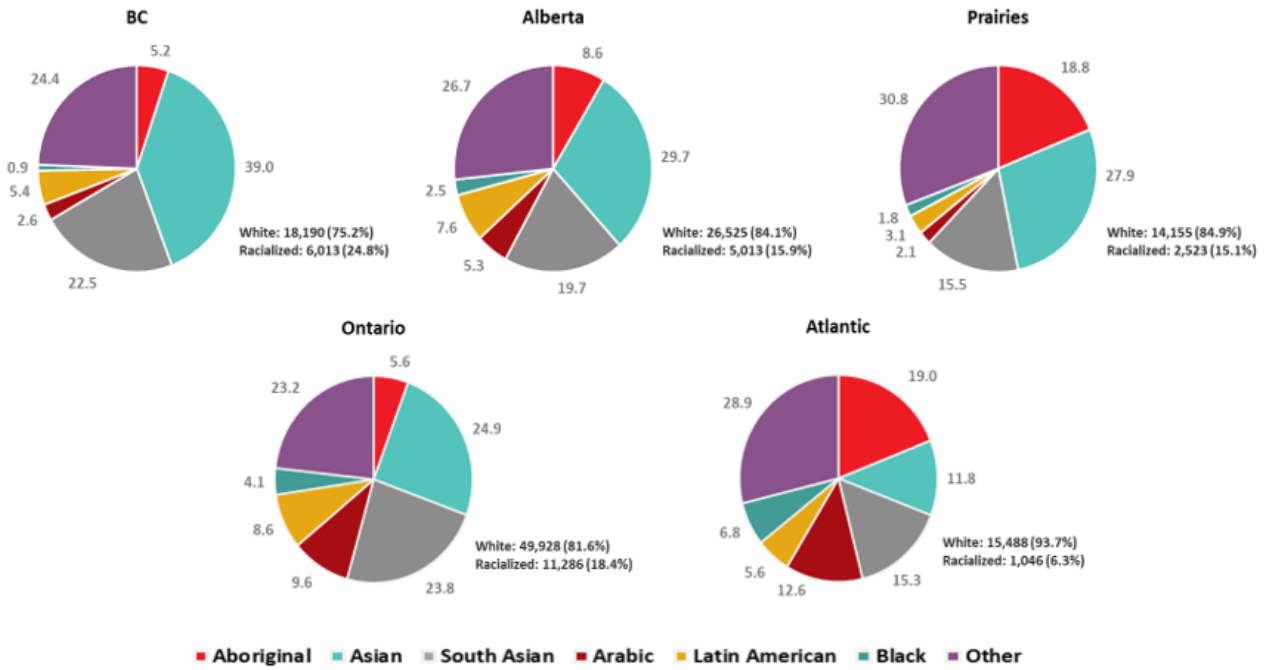
Province	Tested		Positive	
	n	n	%	
BC	27,571	1,005	3.65	
Alberta	34,636	2,389	6.90	
Saskatchewan	8,885	423	4.76	
Manitoba	9,450	571	6.04	
Ontario	66,731	2,453	3.68	
New Brunswick	5,567	24	0.43	
Nova Scotia	7,379	45	0.61	
Prince Edward Island	1,759	3	0.17	
Newfoundland	2,940	14	0.48	

Supplemental Table 3 Regional multivariable odds ratios

Variables	BC (n=27,571)		Alberta (n=34,636)		Prairies (n=18,335)		Ontario (n=66,731)		Atlantic (n=17,645)	
	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value
Male (vs Female)	1.30 (1.12, 1.50)	0.0005	1.15 (1.04, 1.27)	0.0061	1.23 (1.06, 1.43)	0.0069	1.17 (1.07, 1.29)	0.0009	1.04 (0.64, 1.68)	0.8875
Age Group (vs 60+)										
17-24	2.40 (1.83, 3.14)	<0.0001	3.96 (3.31, 4.73)	<0.0001	4.49 (3.50, 5.77)	<0.0001	2.89 (2.43, 3.42)	<0.0001	2.11 (0.99, 4.49)	0.0530
25-39	2.19 (1.75, 2.75)	<0.0001	2.22 (1.88, 2.62)	<0.0001	2.18 (1.72, 2.77)	<0.0001	2.01 (1.73, 2.34)	<0.0001	0.86 (0.43, 1.73)	0.6742
40-59	1.72 (1.37, 2.15)	<0.0001	1.84 (1.57, 2.17)	<0.0001	1.56 (1.23, 1.97)	0.0002	1.55 (1.33, 1.80)	<0.0001	1.15 (0.60, 2.18)	0.6804
Racialized (vs White)	1.68 (1.43, 1.97)	<0.0001	1.07 (0.94, 1.22)	0.2978	0.99 (0.80, 1.21)	0.8962	2.06 (1.86, 2.28)	<0.0001	2.66 (1.43, 4.95)	0.0020
Material Deprivation (vs 1 Least Deprived)										
2	0.96 (0.76, 1.21)	0.7237	1.47 (1.28, 1.70)	<0.0001	1.22 (0.96, 1.56)	0.1016	1.05 (0.91, 1.22)	0.4979	0.78 (0.38, 1.62)	0.5022
3	0.94 (0.75, 1.19)	0.6119	1.62 (1.39, 1.89)	<0.0001	1.65 (1.30, 2.09)	<0.0001	1.13 (0.98, 1.31)	0.0989	0.70 (0.32, 1.50)	0.3564
4	1.24 (0.98, 1.57)	0.0673	2.44 (2.08, 2.85)	<0.0001	2.17 (1.71, 2.76)	<0.0001	1.55 (1.34, 1.80)	<0.0001	0.71 (0.34, 1.46)	0.3506
5 (Most Deprived)	1.69 (1.32, 2.16)	<0.0001	1.86 (1.46, 2.36)	<0.0001	2.12 (1.54, 2.91)	<0.0001	2.20 (1.89, 2.57)	<0.0001	0.37 (0.14, 0.97)	0.0427
Social Deprivation (vs 1 Least Deprived)										
2	0.65 (0.52, 0.81)	0.0001	1.00 (0.85, 1.19)	0.9674	1.20 (0.94, 1.53)	0.1490	1.00 (0.87, 1.14)	0.9432	0.55 (0.19, 1.59)	0.2714
3	0.65 (0.52, 0.82)	0.0002	0.93 (0.78, 1.10)	0.3760	0.87 (0.67, 1.13)	0.2998	0.77 (0.67, 0.90)	0.0006	1.85 (0.79, 4.36)	0.1591
4	0.66 (0.52, 0.83)	0.0005	1.05 (0.89, 1.24)	0.5478	0.80 (0.62, 1.03)	0.0846	0.70 (0.60, 0.81)	<0.0001	1.15 (0.47, 2.81)	0.7624
5 (Most Deprived)	0.50 (0.40, 0.63)	<0.0001	0.93 (0.78, 1.10)	0.3875	0.82 (0.63, 1.05)	0.1204	0.67 (0.58, 0.78)	<0.0001	1.66 (0.68, 4.07)	0.2688

Supplemental Figure 1 Numbers of samples tested per month

2021											
January	February	March	April	May	June	July	August	September	October	November	December
34,280	34	16,949	17,027	17,042	17,003	8,465	9,246	9,446	9,653	9,124	16,967



Supplemental Figure 2 Pie charts of regional racialized donors by self selected ethnicities