

Table S1: COVID-19 two-step ‘context-sensitive approach’: selected simulation results

Overall prevalence (%)	Number of groups		Group size	Within-group prevalence (%)	Probability of positive groups (%)	Number of positive groups		Number of overall cases		Post-simulation prevalence (%)		Number of required tests		Reduction (%)	
	A ¹	B ²				A ¹	B ²	A ¹	B ²	A ¹	B ²	A ¹	B ²	A ¹	B ²
1	75000	7500	3	44.0	2.3	902	95	1429	142	0.95	0.95	52706	5285	65	65
1	50000	5000	5	39.9	2.5	680	65	1503	143	1.00	0.95	33400	3325	78	78
1	15000	1500	10	31.3	3.2	459	47	1468	139	0.98	0.93	19590	1970	87	87
1	6000	600	25	15.3	6.5	408	32	1601	124	1.07	0.83	16200	1400	89	91
1	3000	300	50	5.1	19.6	549	57	1483	151	0.99	1.01	30450	3150	80	79
1	1500	150	100	1.3	74.8	832	85	1510	171	1.01	1.14	84700	8650	44	42
5	75000	7500	3	48.0	10.4	4460	466	7514	824	5.01	5.49	63380	6398	58	57
5	50000	5000	5	43.9	11.4	3186	322	7488	735	4.99	4.90	45930	4610	69	69
5	15000	1500	10	35.3	14.2	2090	195	7431	717	4.95	4.78	35900	3450	76	77
5	6000	600	25	19.3	25.9	1532	160	7504	771	5.00	5.14	44300	4625	70	69
5	3000	300	50	9.1	54.9	1606	172	7355	836	4.90	5.57	83300	8900	44	41
5	1500	150	100	5.3	93.7	1399	136	7583	695	5.06	4.63	141400	13750	6	8
10	75000	7500	3	53.0	18.9	8517	860	15018	1540	10.01	10.27	75551	7580	50	50
10	50000	5000	5	48.9	20.4	5930	587	15110	1479	10.07	9.86	59650	5935	60	60
10	15000	1500	10	40.3	24.8	3694	348	14990	1413	9.99	9.42	519400	4980	65	67
10	6000	600	25	24.3	41.1	2491	235	15156	1481	10.10	9.87	68275	6475	54	57
10	3000	300	50	14.1	70.9	2130	208	15005	1469	10.00	9.79	109500	10700	27	29
10	1500	150	100	10.3	96.7	1443	144	14873	1468	9.92	9.79	145800	14550	3	3

¹ population 150 000² population 15 000