

**Supplementary material to “Patterns and descriptors of COVID-19 testing and lab-confirmed COVID-19 incidence in Manitoba, Canada, March 2020-May 2021: A population-based study” by Christiaan H. Righolt, Geng Zhang, Emrah Sever, Krista Wilkinson, Salaheddin M. Mahmud**

**Supplementary figures**

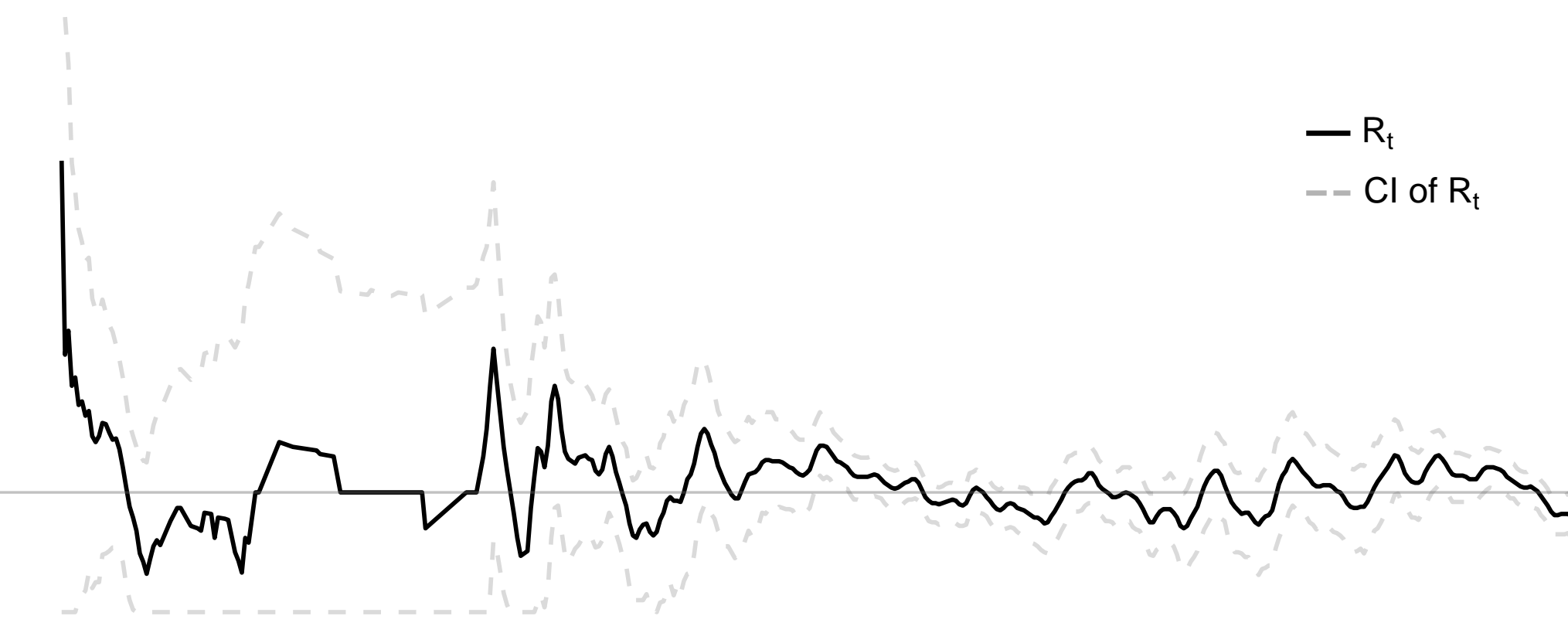
**Supplementary figure 1: Daily effective reproduction number  $R_t$ .**

Daily effective reproduction number

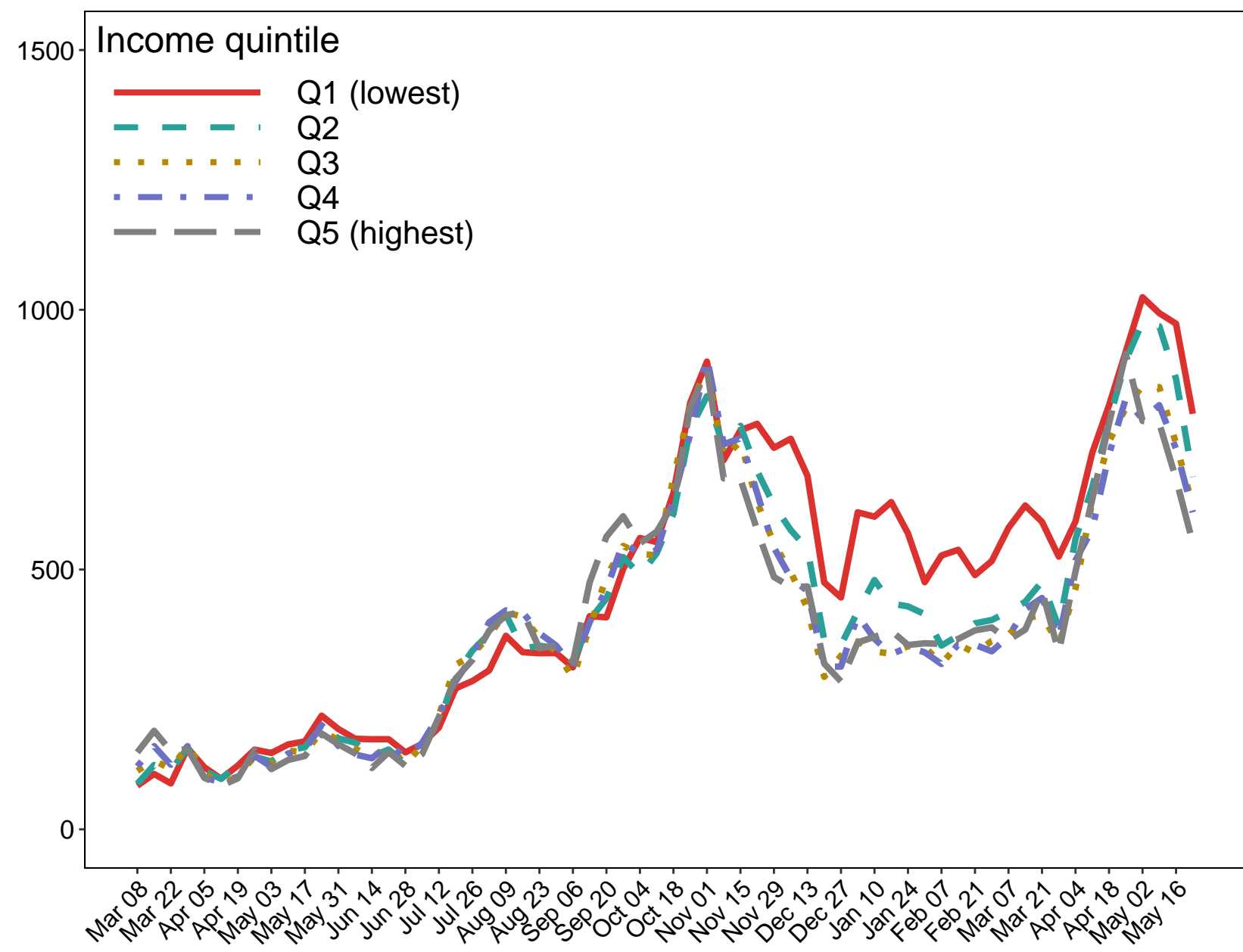
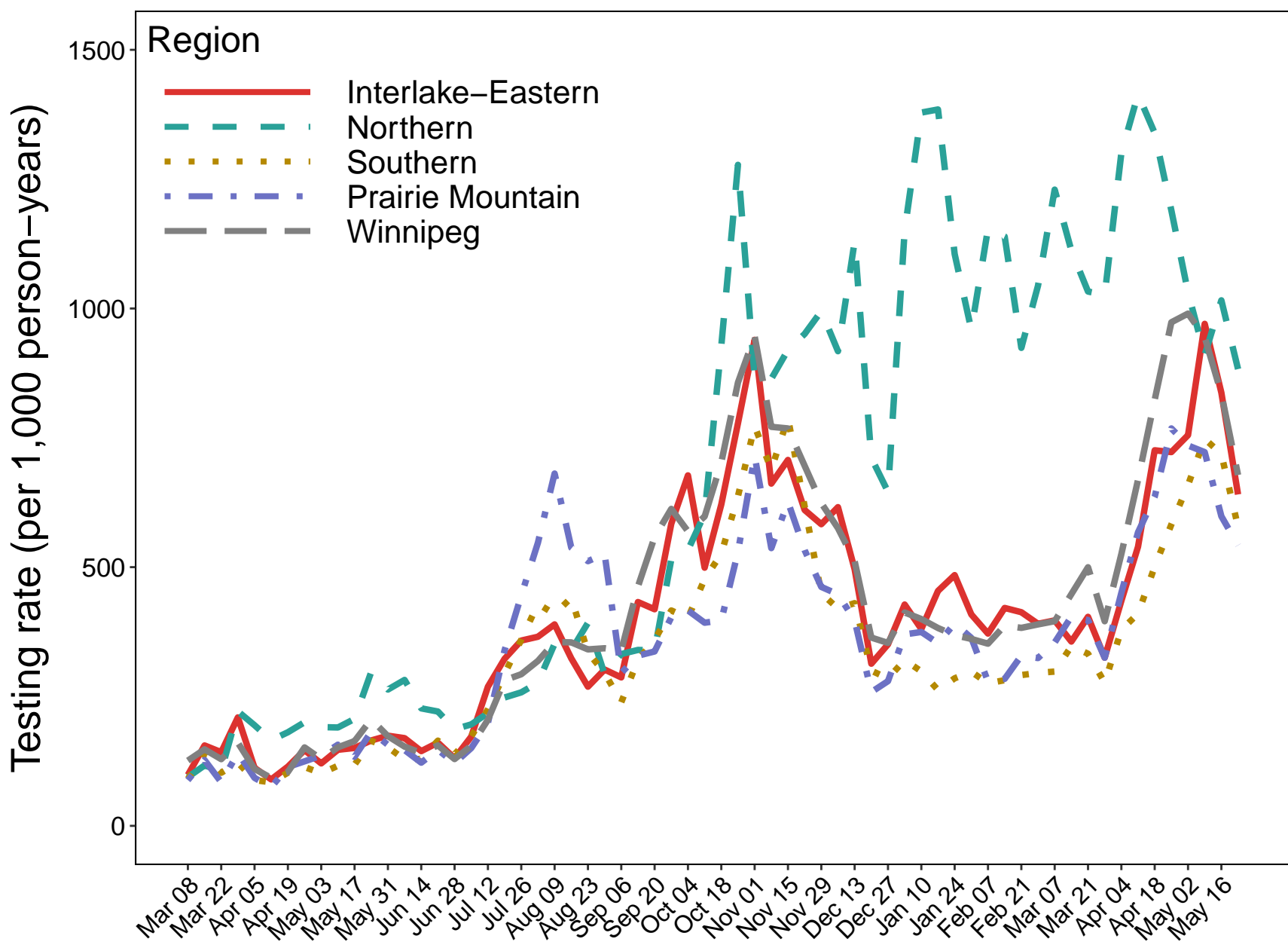
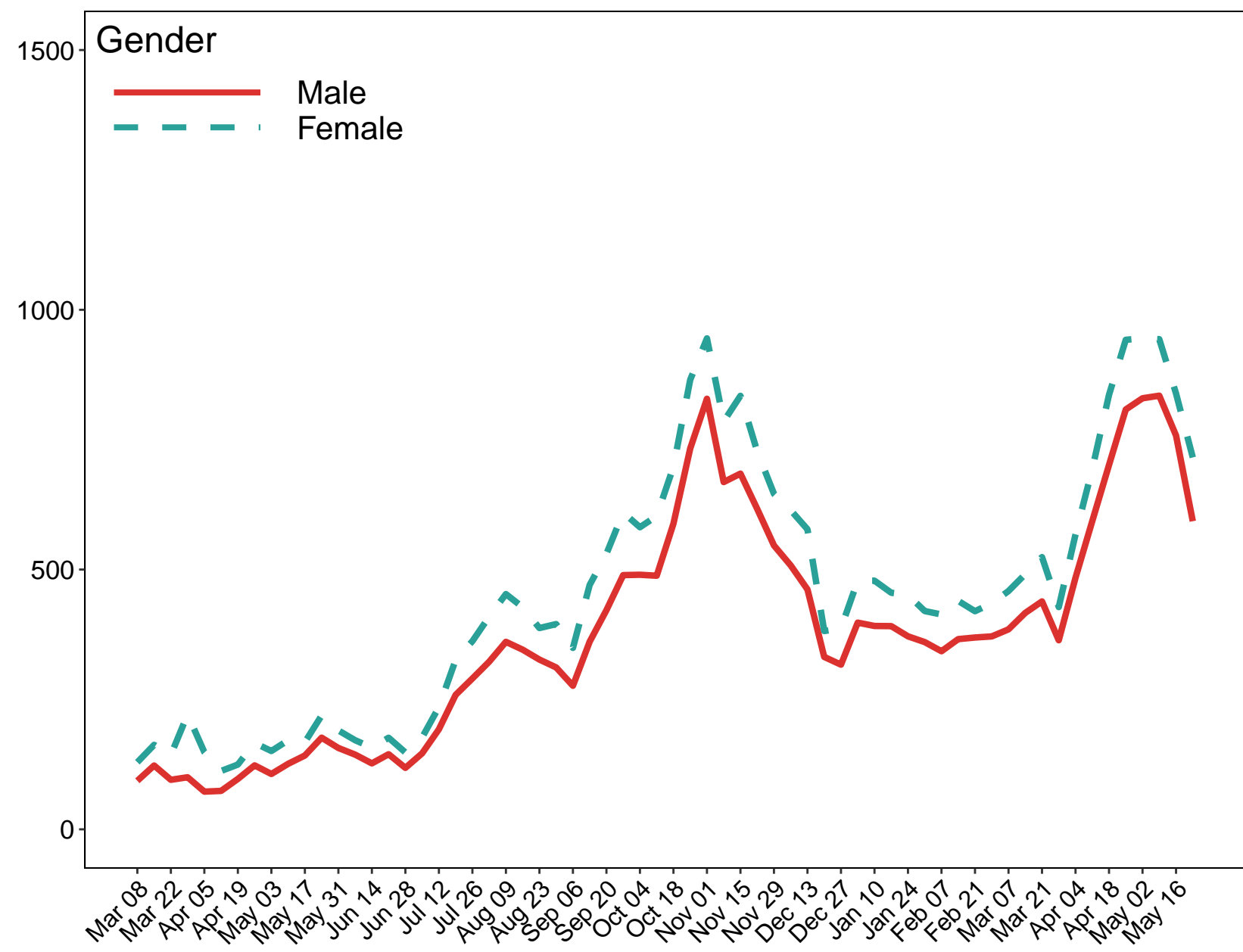
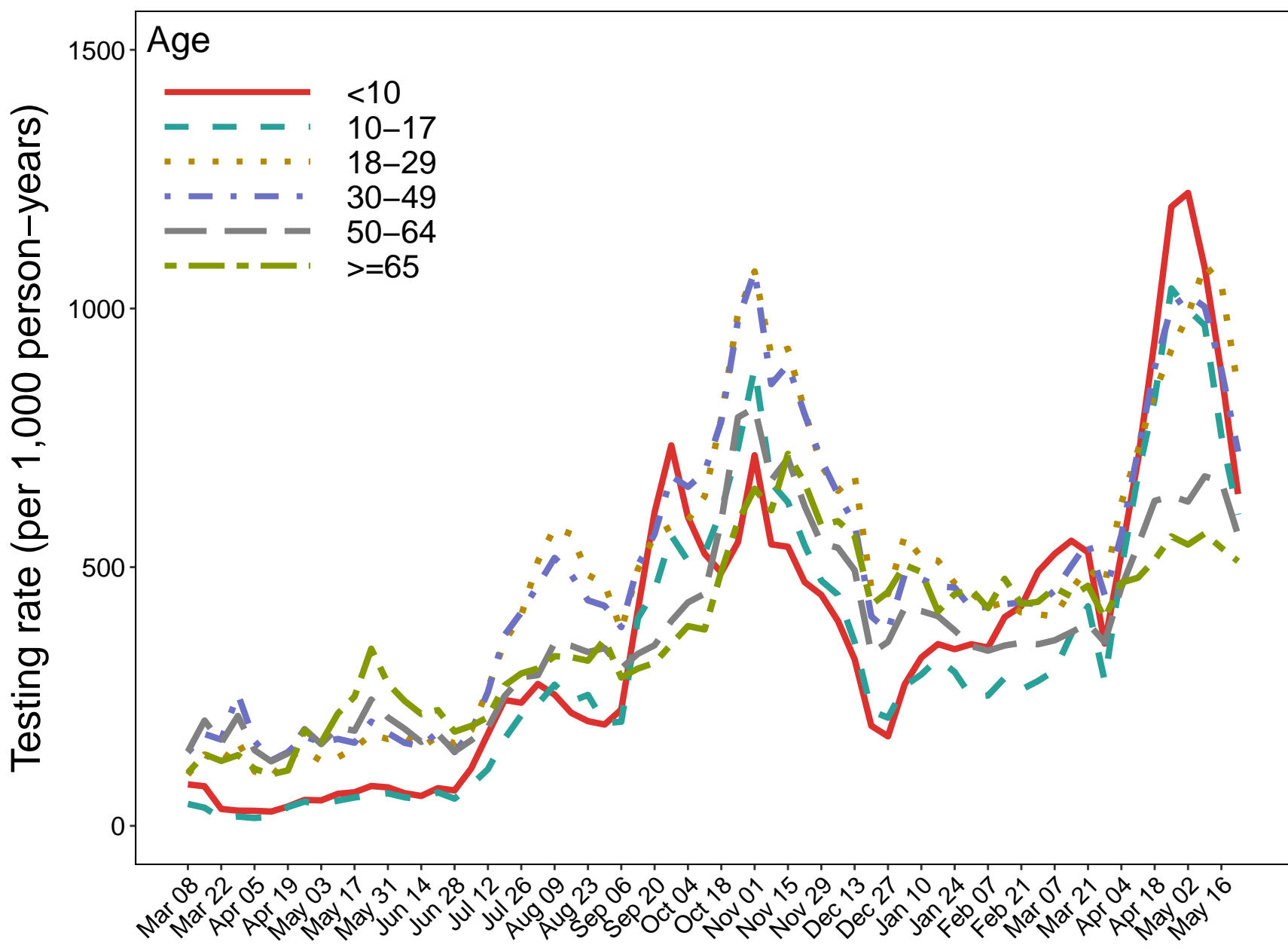
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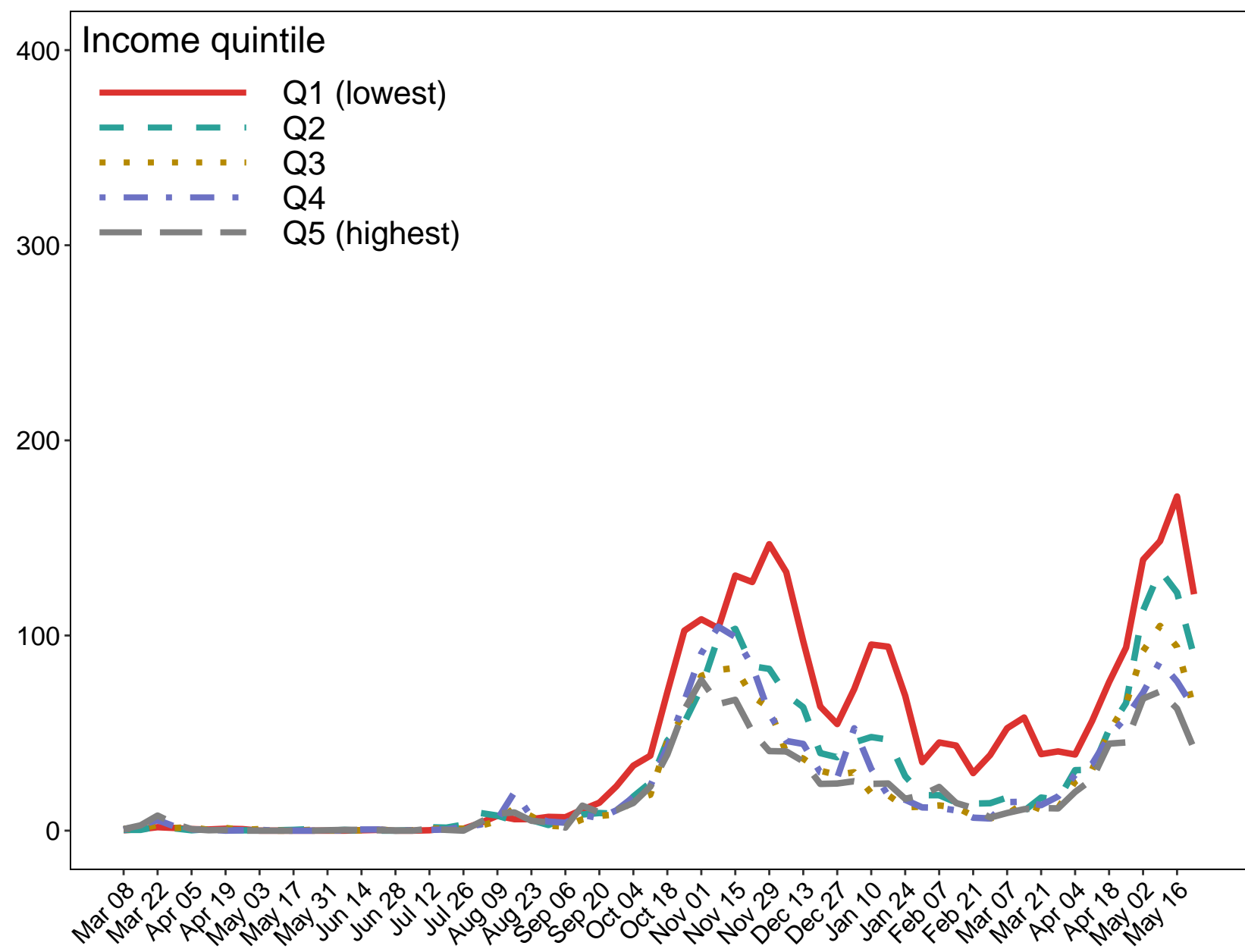
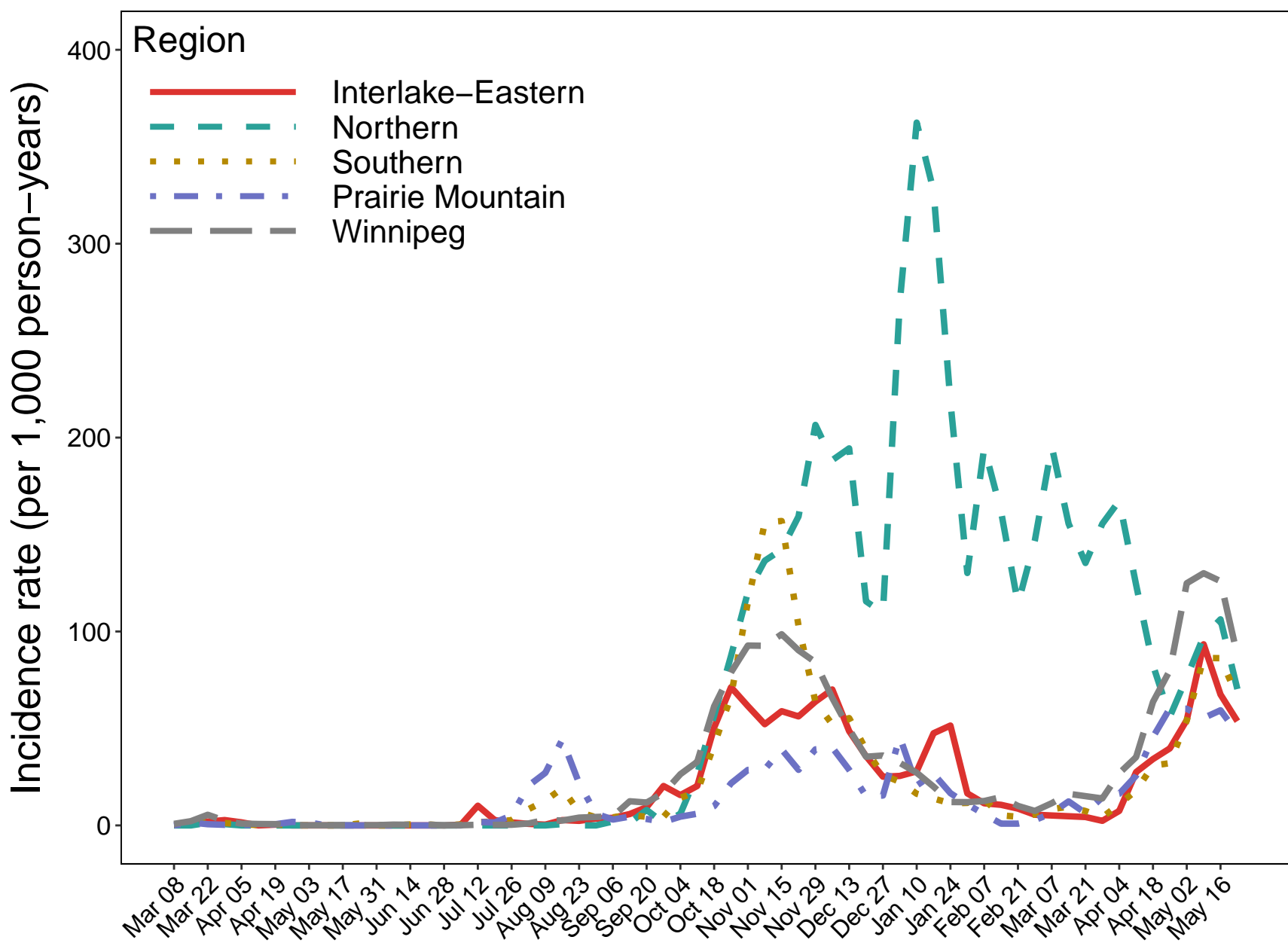
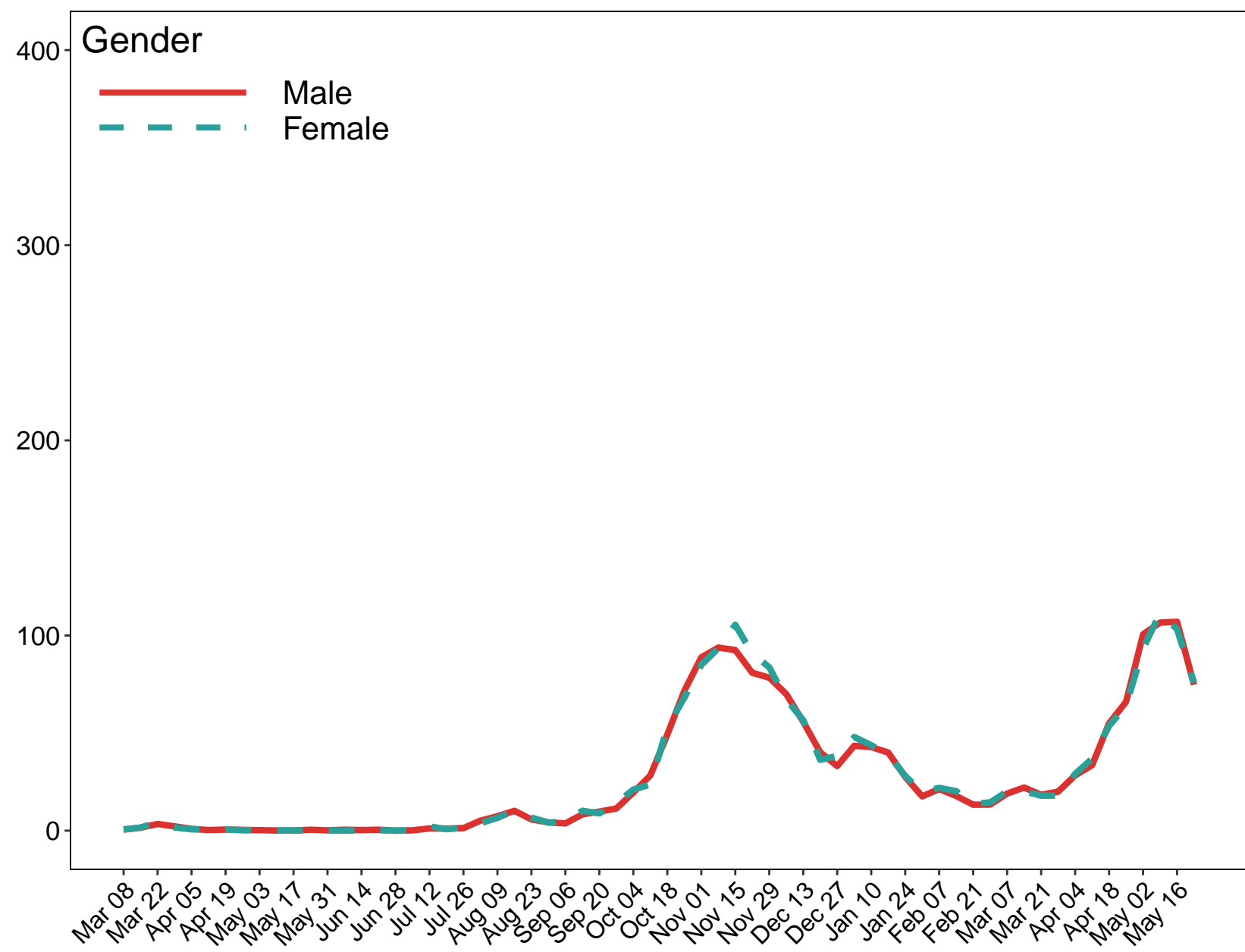
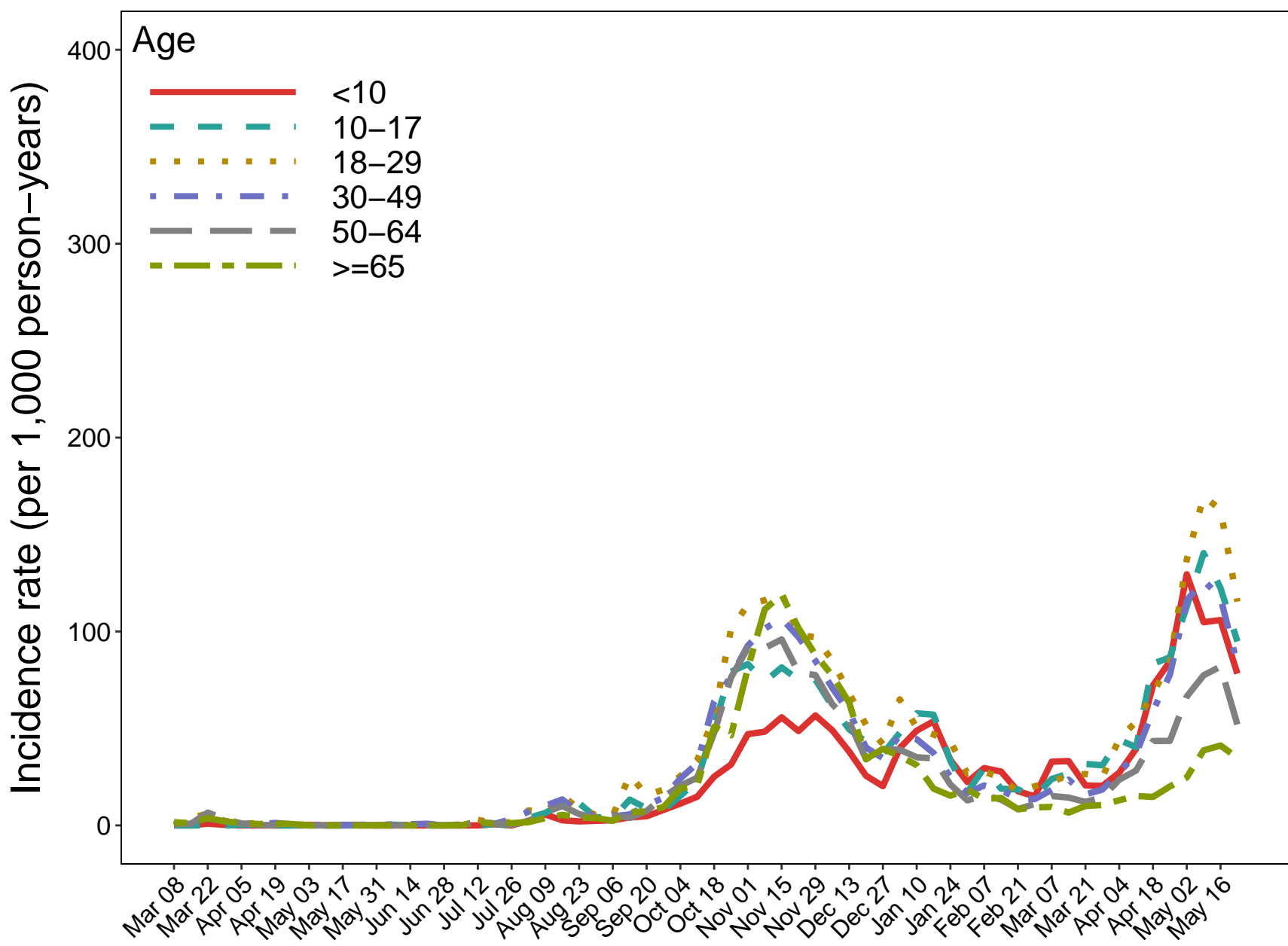
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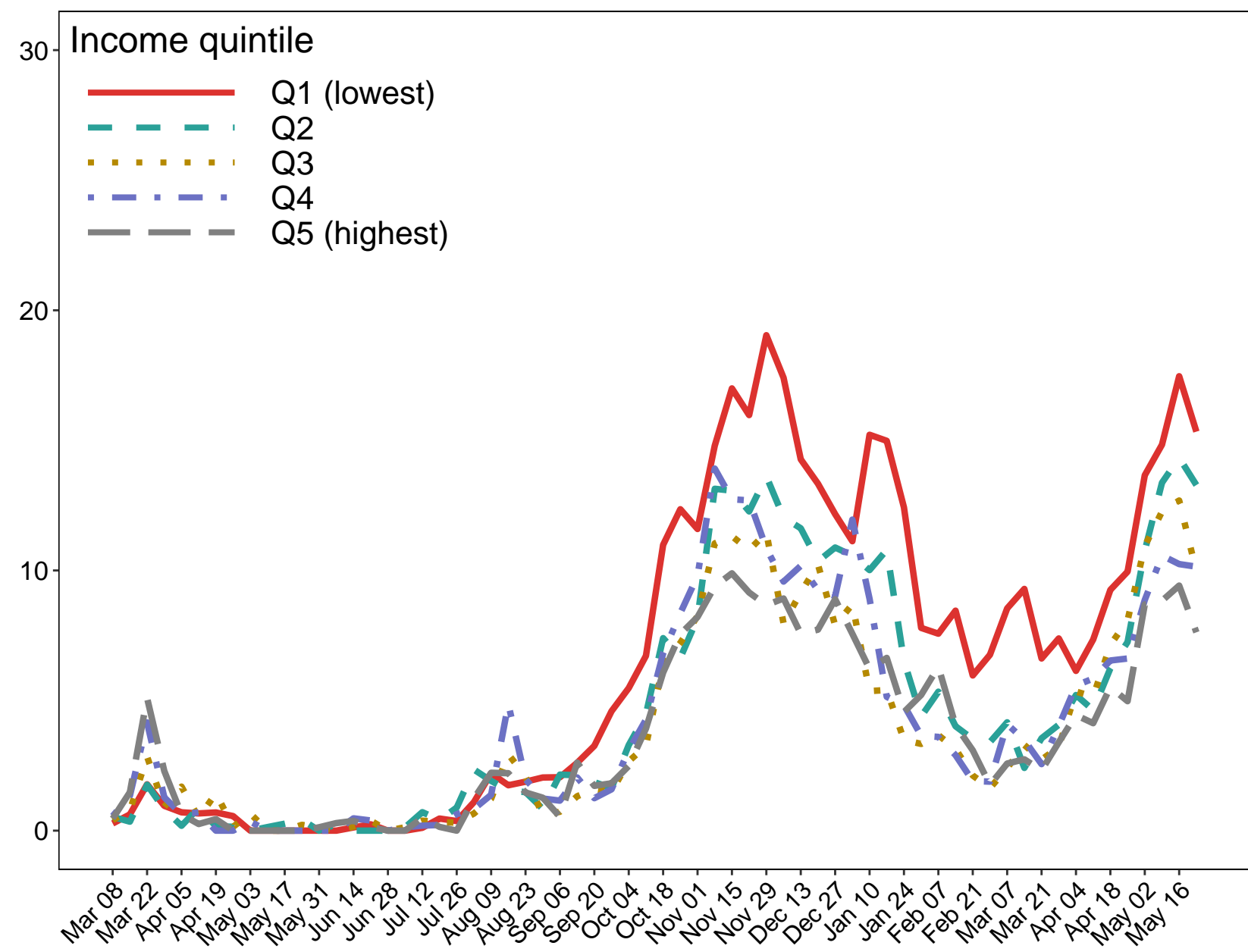
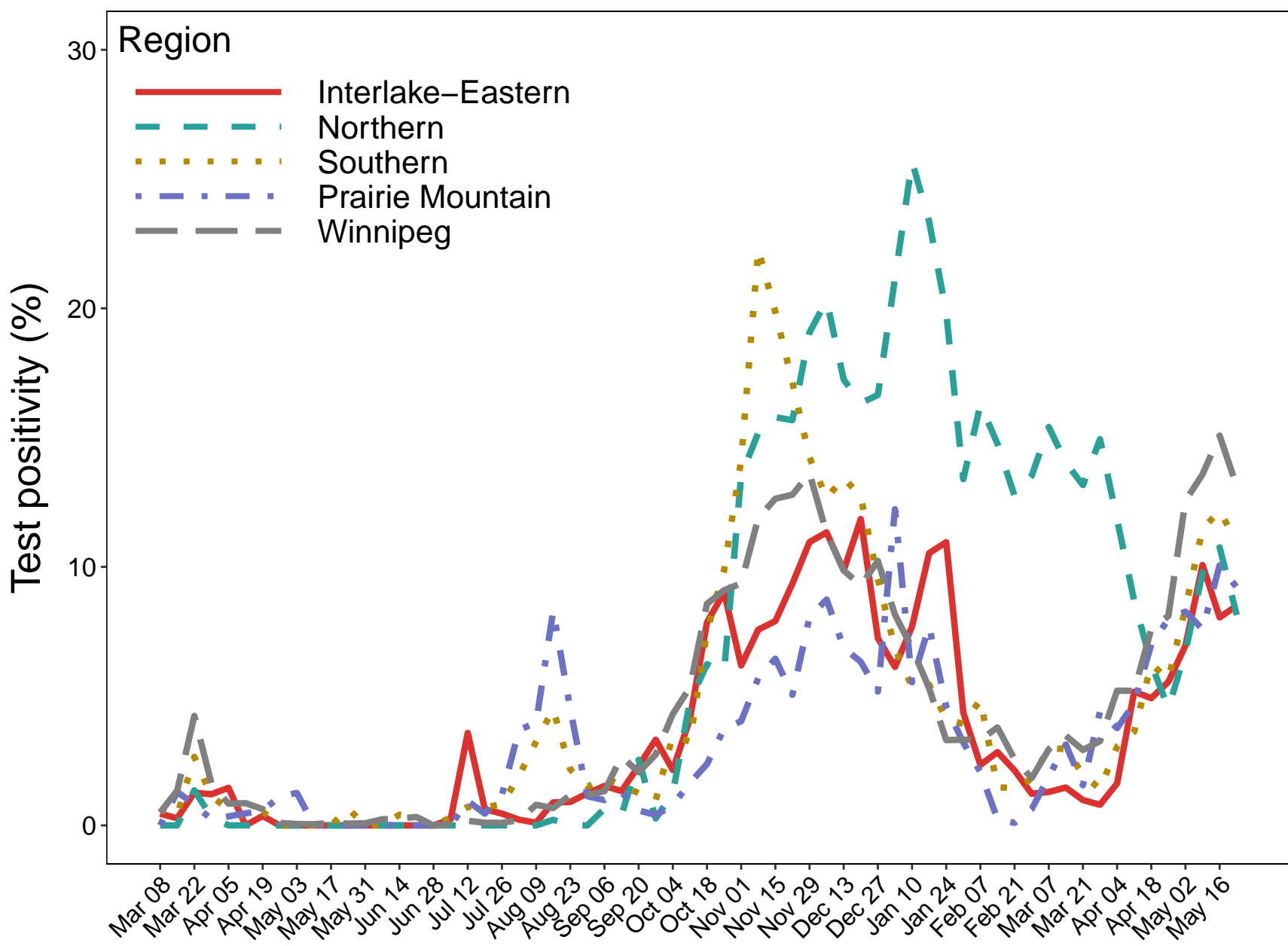
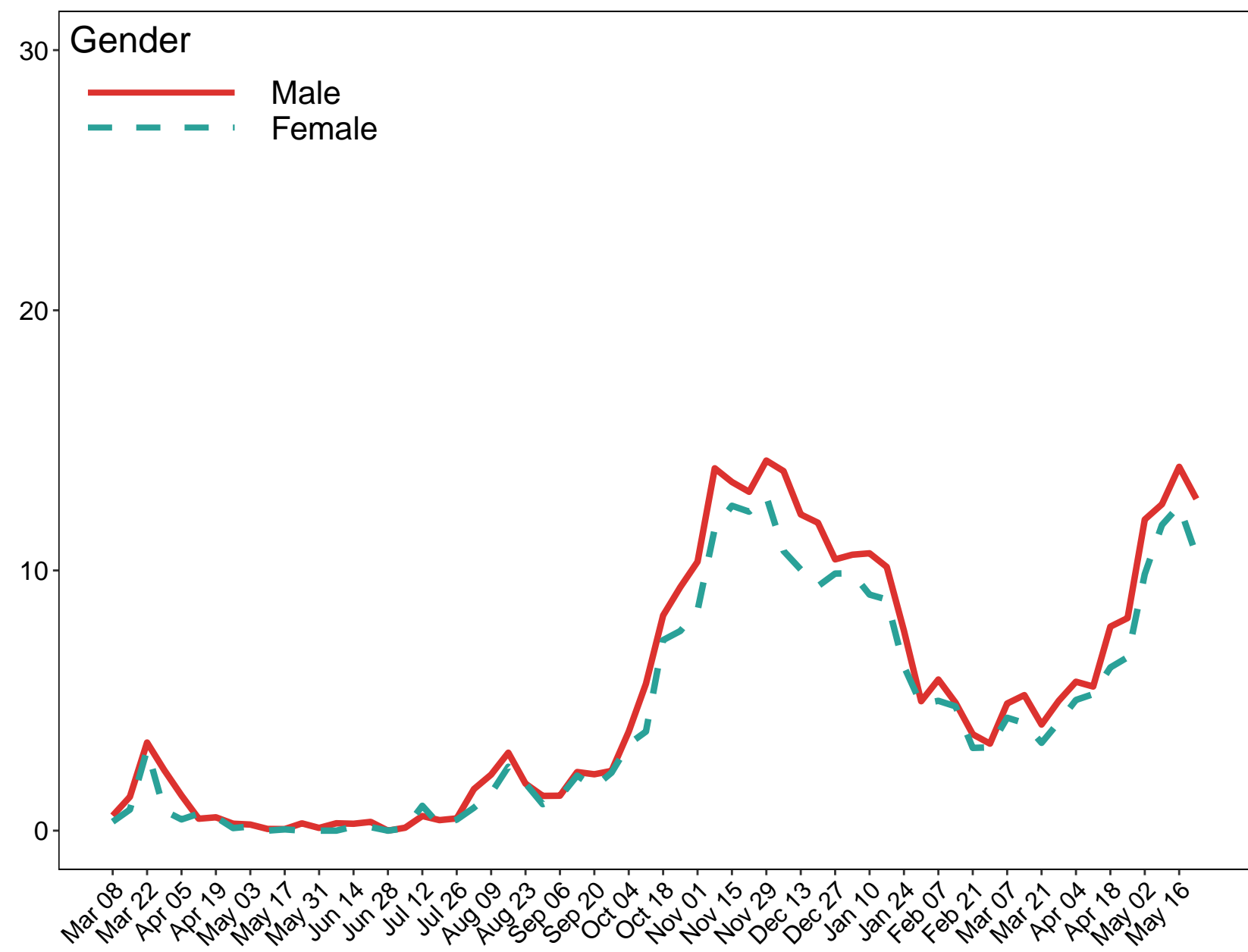
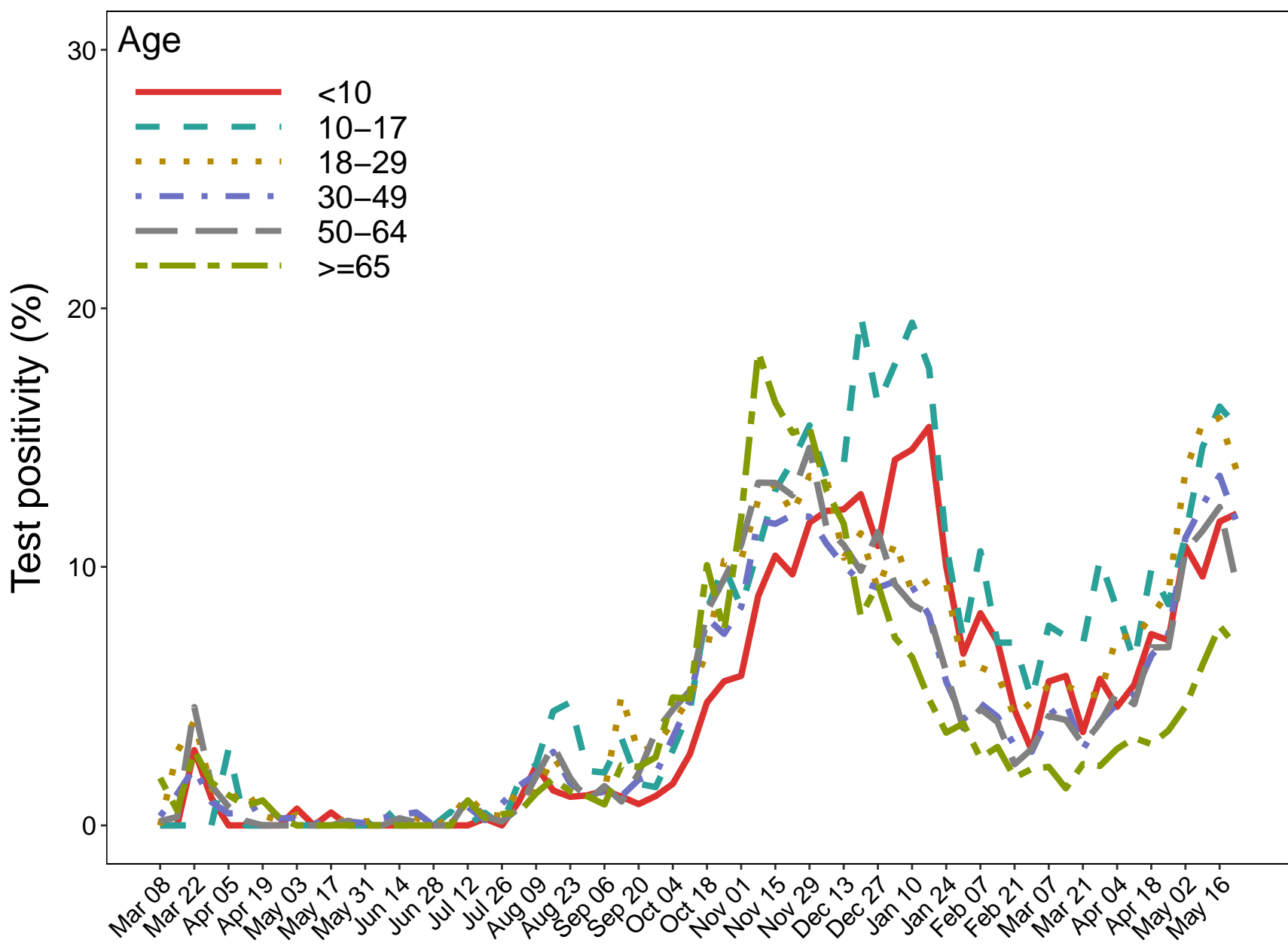
**Supplementary figure 2: Weekly COVID-19 laboratory testing rate according to age, gender, region of residence, and neighborhood income quintile**



**Supplementary figure 3: Weekly laboratory-confirmed COVID-19 incidence rate according to age, gender, region of residence, and neighborhood income quintile**



**Supplementary figure 4: Weekly COVID-19 laboratory test positivity rate according to age, gender, region of residence, and neighborhood income quintile**





**Supplementary tables**

**Supplementary Table 1 Testing and incidence rates (per 1,000 person-years) and test positivity (95% confidence interval) according to certain socio-economic and clinical characteristics and pandemic stage**

	First wave <sup>a</sup>			Summer wave <sup>b</sup>		
	Testing rate	Incidence rate	Test positivity (%)	Testing rate	Incidence rate	Test positivity (%)
Total	128 (126-129)	1.7 (1.5-2.0)	1.4 (1.2-1.5)	248 (247-249)	2.7 (2.6-2.9)	1.1 (1.1-1.2)
<b>Age</b>						
<10	49 (46-52)	0.2 (0.1-0.6)	0.5 (0.2-1.3)	174 (171-177)	1.3 (1.1-1.6)	0.7 (0.6-0.9)
10-17	25 (22-27)	0.1 (0.0-0.5)	0.3 (0.0-2.2)	151 (148-154)	2.8 (2.4-3.2)	1.8 (1.6-2.1)
18-29	124 (119-129)	2.6 (2.0-3.4)	2.1 (1.6-2.8)	298 (295-301)	4.4 (4.1-4.9)	1.5 (1.4-1.6)
30-49	179 (174-183)	1.8 (1.4-2.3)	1.0 (0.8-1.3)	297 (294-299)	3.3 (3.1-3.6)	1.1 (1.0-1.2)
50-64	172 (167-177)	2.5 (1.9-3.2)	1.4 (1.1-1.9)	238 (235-241)	2.2 (2.0-2.5)	0.9 (0.8-1.1)
≥65	120 (116-125)	2.0 (1.4-2.6)	1.6 (1.2-2.2)	251 (248-254)	1.8 (1.6-2.1)	0.7 (0.6-0.8)
<b>Female</b>						
Male	96 (93-98)	1.7 (1.4-2.1)	1.8 (1.5-2.1)	220 (218-221)	2.7 (2.5-2.9)	1.2 (1.2-1.3)
Female	159 (156-162)	1.7 (1.5-2.1)	1.1 (0.9-1.3)	276 (274-278)	2.8 (2.6-3.0)	1.0 (0.9-1.1)
<b>Income quintile</b>						
Q1 (lowest)	109 (105-113)	1.0 (0.7-1.4)	0.9 (0.6-1.3)	241 (239-244)	3.2 (2.9-3.5)	1.3 (1.2-1.4)
Q2	117 (113-121)	0.8 (0.6-1.3)	0.7 (0.5-1.1)	246 (243-248)	2.7 (2.5-3.0)	1.1 (1.0-1.2)
Q3	125 (121-130)	1.6 (1.2-2.2)	1.3 (0.9-1.7)	247 (244-250)	2.3 (2.0-2.5)	0.9 (0.8-1.0)
Q4	131 (127-136)	2.3 (1.8-2.9)	1.7 (1.3-2.2)	249 (247-252)	2.8 (2.5-3.1)	1.1 (1.0-1.2)
Q5 (highest)	147 (143-152)	3.1 (2.5-3.8)	2.1 (1.7-2.6)	251 (248-253)	2.6 (2.3-2.9)	1.0 (0.9-1.1)
Unknown	174 (161-187)	1.0 (0.4-2.6)	0.6 (0.2-1.5)	282 (275-289)	3.9 (3.2-4.8)	1.4 (1.1-1.7)
<b>Regional health authority of residence</b>						
Interlake-Eastern	143 (136-150)	1.4 (0.9-2.2)	1.0 (0.6-1.6)	241 (237-245)	2.1 (1.8-2.5)	0.9 (0.7-1.0)
Northern	144 (135-153)	0.4 (0.1-1.2)	0.3 (0.1-0.9)	264 (259-270)	0.5 (0.3-0.8)	0.2 (0.1-0.3)
Southern	107 (102-111)	1.1 (0.7-1.7)	1.0 (0.7-1.5)	228 (225-231)	3.1 (2.8-3.5)	1.4 (1.2-1.5)
Prairie Mountain	105 (101-110)	0.5 (0.3-1.0)	0.5 (0.3-1.0)	275 (271-278)	5.9 (5.3-6.4)	2.1 (1.9-2.3)
Winnipeg	133 (131-136)	2.4 (2.0-2.7)	1.8 (1.5-2.0)	246 (245-248)	2.3 (2.1-2.4)	0.9 (0.9-1.0)
Public Trustee / In CFS care	204 (170-244)	0.0 (0.0-3.0)	0.0 (0.0-3.0)	339 (319-362)	4.9 (2.9-8.3)	1.4 (0.9-2.4)
In long-term care	592 (541-648)	1.3 (0.2-8.9)	0.2 (0.0-1.5)	649 (623-675)	7.6 (5.2-11.0)	1.2 (0.8-1.7)
Any chronic disease	180 (175-185)	2.2 (1.7-2.9)	1.2 (0.9-1.6)	329 (326-332)	2.6 (2.3-2.9)	0.8 (0.7-0.9)
Immunosuppressed	212 (202-224)	2.8 (1.8-4.3)	1.3 (0.8-2.0)	392 (385-398)	2.6 (2.1-3.2)	0.7 (0.5-0.8)
Use of ARBs/ACEIs <sup>c</sup>	145 (140-151)	2.0 (1.4-2.8)	1.4 (1.0-1.9)	271 (268-275)	2.5 (2.2-2.9)	0.9 (0.8-1.1)
Use of proton-pump inhibitors	215 (207-223)	2.1 (1.5-3.1)	1.0 (0.7-1.5)	398 (393-404)	3.1 (2.7-3.6)	0.8 (0.7-0.9)
<b>COVID-19 vaccination status</b>						
Unvaccinated	128 (126-129)	1.7 (1.5-2.0)	1.4 (1.2-1.5)	248 (247-249)	2.7 (2.6-2.9)	1.1 (1.1-1.2)
≥14 days after first dose	N/A	N/A	N/A	N/A	N/A	N/A
≥7 days after second dose	N/A	N/A	N/A	N/A	N/A	N/A
<b>No. of physician visits in 2019</b>						
0	52 (49-55)	0.8 (0.5-1.3)	1.6 (1.0-2.6)	120 (118-122)	2.3 (2.0-2.6)	1.9 (1.7-2.1)
1-3	92 (89-95)	1.6 (1.3-2.1)	1.8 (1.4-2.3)	201 (199-203)	2.8 (2.5-3.0)	1.4 (1.3-1.5)
4-8	134 (130-138)	1.9 (1.5-2.4)	1.4 (1.1-1.8)	256 (254-259)	2.8 (2.6-3.1)	1.1 (1.0-1.2)
≥9	200 (196-205)	2.2 (1.8-2.7)	1.1 (0.9-1.4)	363 (361-366)	2.9 (2.7-3.2)	0.8 (0.7-0.9)
<b>No. of hospitalizations in 2019</b>						
0	123 (121-125)	1.7 (1.5-2.0)	1.4 (1.2-1.6)	238 (237-239)	2.8 (2.6-2.9)	1.2 (1.1-1.2)
1	160 (151-169)	1.2 (0.6-2.3)	0.7 (0.4-1.5)	354 (348-361)	2.6 (2.1-3.2)	0.7 (0.6-0.9)
≥2	323 (296-352)	3.2 (1.3-7.6)	1.0 (0.4-2.3)	607 (590-625)	2.9 (1.9-4.4)	0.5 (0.3-0.7)

<sup>a</sup> The first wave is from March 8 to April 11, 2020. <sup>b</sup> The summer wave is from April 12 to September 30, 2020. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 2 Testing and incidence rates (per 1,000 person-years) and test positivity (95% confidence interval) according to certain socio-economic and clinical characteristics and pandemic stage**

	Second wave <sup>a</sup>			Third wave <sup>b</sup>		
	Testing rate	Incidence rate	Test positivity (%)	Testing rate	Incidence rate	Test positivity (%)
Total	530 (528-532)	48.6 (48.0-49.2)	9.2 (9.1-9.3)	614 (612-617)	49.8 (49.1-50.5)	8.1 (8.0-8.2)
Age						
<10	418 (413-423)	34.7 (33.3-36.1)	8.3 (8.0-8.6)	719 (711-727)	57.3 (55.1-59.5)	8.0 (7.7-8.3)
10-17	428 (423-434)	47.9 (46.2-49.8)	11.2 (10.8-11.6)	600 (592-608)	64.1 (61.5-66.9)	10.7 (10.3-11.1)
18-29	632 (627-637)	61.2 (59.6-62.8)	9.7 (9.4-9.9)	698 (691-705)	71.9 (69.7-74.1)	10.3 (10.0-10.6)
30-49	615 (611-619)	51.6 (50.5-52.8)	8.4 (8.2-8.6)	689 (684-694)	55.2 (53.7-56.8)	8.0 (7.8-8.2)
50-64	487 (483-491)	45.5 (44.3-46.8)	9.4 (9.1-9.6)	497 (492-503)	36.6 (35.2-38.1)	7.4 (7.1-7.7)
≥65	505 (500-510)	47.1 (45.7-48.5)	9.3 (9.0-9.6)	477 (472-483)	18.7 (17.6-19.9)	3.9 (3.7-4.2)
Female						
Male	484 (481-486)	47.8 (47.0-48.6)	9.9 (9.7-10.1)	568 (564-572)	50.1 (49.1-51.2)	8.8 (8.6-9.0)
Female	576 (573-579)	49.3 (48.5-50.2)	8.6 (8.4-8.7)	661 (657-664)	49.5 (48.5-50.5)	7.5 (7.3-7.7)
Income quintile						
Q1 (lowest)	624 (619-629)	79.1 (77.4-80.8)	12.7 (12.4-12.9)	725 (718-732)	80.6 (78.5-82.9)	11.1 (10.8-11.4)
Q2	528 (524-532)	47.9 (46.7-49.2)	9.1 (8.8-9.3)	639 (633-645)	53.7 (52.0-55.4)	8.4 (8.1-8.7)
Q3	491 (487-495)	36.3 (35.2-37.4)	7.4 (7.2-7.6)	572 (567-578)	43.5 (41.9-45.1)	7.6 (7.3-7.9)
Q4	495 (491-499)	41.7 (40.6-43.0)	8.4 (8.2-8.7)	566 (560-571)	40.0 (38.6-41.6)	7.1 (6.8-7.3)
Q5 (highest)	489 (485-493)	33.6 (32.5-34.7)	6.9 (6.6-7.1)	566 (560-571)	32.3 (31.0-33.7)	5.7 (5.5-6.0)
Unknown	664 (654-675)	74.1 (70.6-77.8)	11.2 (10.6-11.7)	654 (640-667)	49.0 (45.4-52.8)	7.5 (7.0-8.1)
Regional health authority of residence						
Interlake-Eastern	529 (523-535)	38.9 (37.3-40.6)	7.4 (7.1-7.7)	560 (552-568)	30.1 (28.3-32.0)	5.4 (5.1-5.7)
Northern	956 (946-967)	153.5 (149.2-157.9)	16.0 (15.6-16.5)	1,084 (1,069-1,099)	117.0 (112.2-122.0)	10.8 (10.4-11.3)
Southern	429 (425-433)	46.7 (45.3-48.2)	10.9 (10.6-11.2)	459 (453-465)	31.7 (30.2-33.2)	6.9 (6.6-7.2)
Prairie Mountain	410 (406-415)	20.2 (19.1-21.2)	4.9 (4.7-5.2)	511 (504-518)	31.1 (29.5-32.8)	6.1 (5.8-6.4)
Winnipeg	539 (537-542)	46.1 (45.3-46.8)	8.5 (8.4-8.7)	643 (639-646)	55.7 (54.7-56.8)	8.7 (8.5-8.8)
Public Trustee / In CFS care	1,021 (981-1,062)	144.4 (129.9-160.4)	14.1 (12.7-15.7)	885 (838-936)	72.7 (59.9-88.1)	8.2 (6.8-10.0)
In long-term care	2,384 (2,327-2,442)	394.9 (372.1-419.0)	16.6 (15.6-17.6)	975 (926-1,027)	11.6 (7.2-18.7)	1.2 (0.7-1.9)
Any chronic disease	711 (706-716)	68.4 (66.8-69.9)	9.6 (9.4-9.8)	717 (711-724)	44.4 (42.8-46.0)	6.2 (6.0-6.4)
Immunosuppressed	729 (719-739)	49.2 (46.7-51.8)	6.7 (6.4-7.1)	769 (756-782)	40.5 (37.6-43.6)	5.3 (4.9-5.7)
Use of ARBs/ACEIs <sup>c</sup>	579 (573-584)	57.8 (56.1-59.6)	10.0 (9.7-10.3)	579 (572-586)	35.2 (33.5-37.0)	6.1 (5.8-6.4)
Use of proton-pump inhibitors	809 (802-817)	68.2 (66.0-70.5)	8.4 (8.1-8.7)	820 (811-830)	47.0 (44.7-49.4)	5.7 (5.5-6.0)
COVID-19 vaccination status						
Unvaccinated	529 (527-531)	48.7 (48.2-49.3)	9.2 (9.1-9.3)	608 (605-611)	54.5 (53.7-55.4)	9.0 (8.8-9.1)
≥14 days after first dose	1,212 (1,159-1,267)	32.3 (24.6-42.4)	2.7 (2.0-3.5)	624 (616-632)	28.7 (27.1-30.4)	4.6 (4.3-4.9)
≥7 days after second dose	371 (339-406)	1.6 (0.4-6.2)	0.4 (0.1-1.7)	722 (708-736)	10.7 (9.2-12.5)	1.5 (1.3-1.7)
No. of physician visits in 2019						
0	330 (326-333)	41.1 (39.9-42.4)	12.5 (12.1-12.9)	423 (418-428)	51.6 (49.9-53.3)	12.2 (11.8-12.6)
1-3	468 (465-472)	47.2 (46.1-48.3)	10.1 (9.9-10.3)	582 (577-587)	53.9 (52.5-55.5)	9.3 (9.0-9.5)
4-8	534 (531-538)	45.5 (44.5-46.6)	8.5 (8.3-8.7)	630 (625-636)	49.0 (47.6-50.5)	7.8 (7.6-8.0)
≥9	719 (715-723)	57.8 (56.6-59.0)	8.0 (7.9-8.2)	763 (758-769)	45.3 (44.0-46.7)	5.9 (5.8-6.1)
No. of hospitalizations in 2019						
0	508 (506-510)	46.7 (46.1-47.3)	9.2 (9.1-9.3)	593 (590-595)	49.3 (48.5-50.0)	8.3 (8.2-8.4)
1	781 (770-791)	68.6 (65.6-71.7)	8.8 (8.4-9.2)	892 (878-907)	58.8 (55.3-62.6)	6.6 (6.2-7.0)
≥2	1,320 (1,292-1,349)	122.7 (114.3-131.7)	9.3 (8.7-10.0)	1,255 (1,220-1,292)	54.2 (47.2-62.2)	4.3 (3.8-5.0)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>b</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 3 Number (percentage) of COVID-19 outcomes by age and pandemic stage**

	<b>First wave<sup>a</sup></b>	<b>Second wave<sup>b</sup></b>	<b>Third wave<sup>c</sup></b>
	<b>(N=230)</b>	<b>(N=27,885)</b>	<b>(N=17,520)</b>
<b>Hospitalized</b>			
Overall	21 (9.1%)	2,093 (7.5%)	1,073 (6.1%)
<10	S <sup>d</sup>	9 (0.4%)	11 (0.4%)
10-17	S <sup>d</sup>	24 (0.9%)	18 (0.8%)
18-29	S <sup>d</sup>	164 (2.9%)	147 (3.6%)
30-49	S <sup>d</sup>	335 (4.3%)	291 (5.7%)
50-64	9 (14.5%)	433 (8.9%)	293 (12.3%)
≥65	10 (23.8%)	1,122 (26.6%)	311 (30.3%)
<b>ICU admission</b>			
Overall	11 (4.8%)	393 (1.4%)	294 (1.7%)
<10	S <sup>d</sup>	S <sup>d</sup>	S <sup>d</sup>
10-17	S <sup>d</sup>	S <sup>d</sup>	S <sup>d</sup>
18-29	S <sup>d</sup>	15 (0.3%)	24 (0.6%)
30-49	S <sup>d</sup>	69 (0.9%)	101 (2.0%)
50-64	S <sup>d</sup>	138 (2.9%)	105 (4.4%)
≥65	7 (16.7%)	170 (4.0%)	61 (5.9%)
<b>Death</b>			
Overall	6 (2.6%)	865 (3.1%)	122 (0.7%)
<10	S <sup>d</sup>	S <sup>d</sup>	S <sup>d</sup>
10-17	S <sup>d</sup>	S <sup>d</sup>	S <sup>d</sup>
18-29	S <sup>d</sup>	S <sup>d</sup>	6 (0.1%)
30-49	S <sup>d</sup>	39 (0.5%)	14 (0.3%)
50-64	S <sup>d</sup>	85 (1.8%)	35 (1.5%)
≥65	S <sup>d</sup>	738 (17.5%)	67 (6.5%)

<sup>a</sup> The first wave is from March 8 to April 11, 2020. <sup>b</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>c</sup> The third wave is from March 1, 2021 to June 1, 2021.

<sup>d</sup> Suppressed because of small cell number as per provincial privacy guidelines.

**Supplementary Table 4 Weekly testing rates for SARS-CoV-2 per 1,000 person-years (95% confidence interval) according to age**

Week	Overall	<10	10-17	18-29	30-49	50-64	≥65
March 8-14, 2020	111 (107-115)	80 (71-90)	42 (35-51)	99 (90-109)	142 (134-151)	144 (133-154)	102 (93-112)
March 15-21, 2020	143 (138-147)	77 (68-86)	35 (29-43)	138 (127-150)	177 (168-188)	204 (191-217)	138 (128-150)
March 22-28, 2020	119 (115-124)	33 (27-39)	14 (11-20)	121 (111-132)	167 (157-176)	160 (150-172)	125 (115-136)
March 29-April 4, 2020	161 (156-166)	29 (24-36)	18 (13-24)	163 (151-176)	255 (243-267)	212 (200-226)	137 (126-148)
April 5-11, 2020	111 (107-115)	29 (24-35)	15 (11-21)	105 (96-115)	164 (155-174)	146 (136-157)	110 (101-121)
April 12-18, 2020	93 (90-97)	28 (22-34)	18 (13-23)	94 (85-103)	126 (118-135)	125 (115-135)	100 (91-109)
April 19-25, 2020	111 (107-115)	37 (31-44)	36 (30-44)	133 (123-145)	142 (134-152)	140 (130-151)	107 (98-117)
April 26-May 2, 2020	145 (140-149)	50 (43-58)	47 (39-56)	145 (134-157)	173 (163-183)	187 (175-199)	184 (172-198)
May 3-9, 2020	129 (124-133)	49 (42-57)	41 (34-50)	126 (115-137)	161 (152-171)	158 (147-169)	161 (150-174)
May 10-16, 2020	149 (144-154)	62 (54-71)	49 (41-58)	132 (122-144)	168 (159-178)	190 (178-203)	217 (204-232)
May 17-23, 2020	155 (150-160)	65 (57-74)	55 (47-65)	150 (139-162)	161 (152-170)	184 (172-196)	250 (235-265)
May 24-30, 2020	198 (193-203)	77 (68-87)	59 (50-69)	177 (165-190)	202 (191-212)	244 (231-258)	342 (325-360)
May 31-June 6, 2020	174 (169-179)	74 (66-84)	63 (54-73)	168 (156-181)	179 (170-189)	210 (197-223)	275 (260-291)
June 7-13, 2020	158 (153-163)	63 (55-72)	55 (47-65)	174 (162-187)	160 (151-170)	188 (176-200)	241 (227-257)
June 14-20, 2020	142 (138-147)	58 (50-66)	51 (43-60)	151 (140-163)	154 (145-163)	162 (151-174)	216 (203-230)
June 21-27, 2020	160 (156-165)	73 (64-83)	65 (56-75)	173 (161-186)	181 (171-191)	177 (166-190)	224 (210-238)
June 28-July 4, 2020	133 (129-138)	68 (60-78)	52 (44-62)	159 (148-172)	142 (134-151)	144 (134-155)	182 (170-195)
July 5-11, 2020	162 (157-167)	111 (100-123)	79 (69-90)	185 (172-198)	182 (173-193)	165 (154-177)	193 (180-207)
July 12-18, 2020	214 (209-220)	178 (164-193)	109 (98-123)	265 (250-281)	259 (247-271)	190 (179-203)	210 (197-224)
July 19-25, 2020	293 (286-299)	243 (227-260)	168 (153-185)	356 (339-375)	369 (355-383)	251 (237-265)	272 (256-288)
July 26-August 1, 2020	326 (320-333)	238 (222-255)	214 (197-232)	407 (388-426)	413 (398-428)	287 (273-302)	295 (279-311)
August 2-8, 2020	366 (359-374)	274 (257-293)	236 (218-255)	511 (490-533)	465 (449-481)	291 (277-307)	304 (288-321)
August 9-15, 2020	407 (400-415)	254 (237-271)	273 (254-294)	576 (554-600)	518 (501-535)	354 (338-371)	328 (311-346)
August 16-22, 2020	387 (379-394)	218 (203-235)	240 (222-260)	564 (542-587)	485 (469-502)	348 (332-365)	326 (309-344)
August 23-29, 2020	357 (350-364)	202 (188-218)	253 (235-273)	485 (465-506)	436 (421-452)	336 (320-352)	319 (303-337)
August 30-September 5, 2020	354 (346-361)	196 (181-211)	198 (182-216)	467 (447-488)	425 (410-441)	344 (328-360)	360 (343-379)
September 6-12, 2020	313 (306-320)	225 (209-241)	201 (185-219)	377 (359-396)	384 (370-399)	305 (290-320)	287 (271-303)
September 13-19, 2020	416 (408-424)	418 (397-440)	401 (378-426)	497 (476-518)	503 (487-520)	333 (317-349)	304 (288-321)
September 20-26, 2020	476 (468-485)	606 (580-633)	455 (430-481)	561 (539-584)	564 (547-582)	349 (333-366)	315 (298-332)
September 27-October 3, 2020	550 (541-559)	735 (707-765)	561 (533-591)	579 (556-602)	676 (657-696)	396 (379-414)	351 (334-370)
October 4-10, 2020	536 (527-545)	597 (571-623)	512 (485-540)	591 (568-614)	655 (636-674)	432 (414-451)	386 (368-405)
October 11-17, 2020	546 (537-555)	526 (502-551)	527 (500-556)	637 (613-661)	684 (665-703)	449 (431-468)	379 (361-399)
October 18-24, 2020	643 (634-653)	490 (467-514)	609 (580-640)	788 (762-815)	782 (762-803)	589 (568-611)	492 (471-513)
October 25-31, 2020	799 (789-810)	548 (524-574)	731 (699-764)	991 (961-1,021)	977 (954-1,000)	790 (765-815)	588 (566-612)
November 1-7, 2020	887 (876-899)	716 (688-745)	885 (850-922)	1,072 (1,041-1,103)	1,072 (1,048-1,096)	808 (783-833)	652 (628-677)
November 8-14, 2020	727 (717-737)	544 (520-570)	662 (632-694)	909 (881-938)	854 (832-876)	668 (646-691)	610 (587-634)
November 15-21, 2020	760 (749-770)	539 (515-565)	625 (596-657)	922 (894-952)	891 (870-914)	710 (687-734)	719 (694-745)
November 22-28, 2020	672 (663-682)	471 (449-495)	542 (515-571)	802 (775-829)	796 (775-817)	618 (597-640)	663 (639-688)
November 29-December 5, 2020	596 (587-606)	446 (424-470)	474 (448-501)	696 (672-722)	707 (688-727)	546 (526-567)	581 (558-605)
December 6-12, 2020	561 (552-570)	396 (375-418)	447 (422-473)	647 (624-672)	641 (623-660)	537 (517-558)	589 (566-613)
December 13-19, 2020	520 (511-529)	322 (303-342)	355 (333-379)	676 (652-702)	584 (566-602)	494 (475-514)	560 (538-583)
December 20-26, 2020	357 (350-364)	193 (179-209)	222 (205-241)	460 (440-480)	405 (390-420)	334 (318-350)	427 (408-448)
December 27, 2020-January 2, 2021	352 (345-359)	173 (159-188)	209 (192-227)	448 (428-468)	377 (363-392)	356 (339-373)	452 (432-473)
January 3-9, 2021	438 (431-446)	273 (256-292)	270 (251-291)	560 (538-583)	485 (469-502)	421 (403-440)	504 (483-526)
January 10-16, 2021	435 (427-443)	325 (307-345)	293 (272-314)	519 (498-541)	477 (461-494)	415 (397-434)	491 (470-513)
January 17-23, 2021	423 (416-431)	351 (332-372)	323 (302-346)	512 (491-534)	463 (447-479)	405 (388-423)	414 (395-434)
January 24-30, 2021	411 (404-419)	341 (322-362)	297 (277-319)	469 (449-490)	461 (445-477)	378 (361-395)	448 (428-469)
January 31-February 6, 2021	390 (383-398)	351 (332-372)	249 (231-269)	451 (431-471)	420 (406-436)	348 (331-365)	457 (437-478)
February 7-13, 2021	378 (371-386)	345 (325-365)	252 (233-272)	422 (403-442)	424 (409-439)	338 (323-355)	421 (401-441)
February 14-20, 2021	403 (395-411)	404 (383-426)	286 (266-307)	432 (413-453)	428 (413-444)	349 (332-366)	478 (457-499)
February 21-27, 2021	395 (387-402)	425 (403-447)	263 (244-284)	413 (394-432)	432 (417-448)	354 (337-371)	429 (409-449)
February 28-March 6, 2021	403 (396-411)	491 (468-515)	280 (260-301)	409 (390-429)	428 (413-444)	351 (335-368)	433 (413-454)
March 7-13, 2021	422 (414-430)	526 (502-551)	300 (280-322)	405 (386-424)	455 (439-471)	359 (342-376)	460 (440-481)
March 14-20, 2021	454 (446-462)	551 (526-577)	371 (348-395)	457 (437-477)	503 (486-520)	374 (358-392)	443 (423-464)
March 21-27, 2021	481 (473-490)	529 (505-554)	425 (400-450)	499 (478-521)	549 (532-567)	391 (374-409)	464 (444-485)
March 28-April 3, 2021	396 (388-404)	352 (333-373)	280 (261-301)	467 (447-488)	446 (431-462)	355 (339-372)	401 (382-421)

<b>Week</b>	<b>Overall</b>	<b>&lt;10</b>	<b>10-17</b>	<b>18-29</b>	<b>30-49</b>	<b>50-64</b>	<b>≥65</b>
April 4-10, 2021	526 (517-535)	526 (502-551)	497 (470-524)	624 (601-648)	562 (545-580)	461 (442-480)	470 (450-492)
April 11-17, 2021	643 (634-653)	707 (679-736)	679 (648-711)	726 (701-752)	725 (705-745)	543 (522-564)	480 (459-501)
April 18-24, 2021	769 (759-780)	939 (907-973)	826 (792-862)	837 (810-865)	885 (864-908)	628 (606-651)	514 (493-537)
April 25-May 1, 2021	875 (864-887)	1,197 (1,160-1,234)	1,039 (1,000-1,079)	920 (891-949)	1,003 (980-1,027)	637 (615-660)	560 (537-583)
May 2-8, 2021	888 (876-899)	1,223 (1,186-1,262)	998 (960-1,037)	987 (958-1,018)	1,026 (1,002-1,050)	627 (605-649)	544 (521-567)
May 9-15, 2021	889 (878-901)	1,079 (1,044-1,115)	968 (930-1,006)	1,085 (1,054-1,117)	1,003 (980-1,027)	676 (653-699)	565 (542-588)
May 16-22, 2021	799 (788-809)	875 (844-908)	754 (722-789)	1,047 (1,016-1,078)	882 (860-904)	666 (643-689)	537 (515-560)
May 23-29, 2021	655 (645-665)	641 (615-669)	602 (572-632)	846 (818-874)	723 (703-744)	562 (541-584)	511 (490-534)

**Supplementary Table 5 Weekly testing rates for SARS-CoV-2 per 1,000 person-years (95% confidence interval) according to region**

<b>Week</b>	<b>Overall</b>	<b>Interlake-Eastern</b>	<b>Northern</b>	<b>Southern</b>	<b>Prairie Mountain</b>	<b>Winnipeg</b>
March 8-14, 2020	111 (107-115)	98 (87-111)	94 (80-111)	91 (82-101)	88 (79-99)	126 (121-132)
March 15-21, 2020	143 (138-147)	155 (141-171)	117 (101-136)	138 (127-150)	127 (116-140)	148 (142-154)
March 22-28, 2020	119 (115-124)	142 (128-158)	106 (91-124)	103 (93-113)	84 (75-95)	129 (123-135)
March 29-April 4, 2020	161 (156-166)	210 (193-228)	221 (199-247)	122 (112-133)	141 (129-154)	161 (154-167)
April 5-11, 2020	111 (107-115)	112 (100-126)	194 (173-218)	88 (80-98)	93 (83-104)	110 (105-115)
April 12-18, 2020	93 (90-97)	90 (79-102)	166 (146-188)	84 (76-94)	75 (66-84)	93 (88-98)
April 19-25, 2020	111 (107-115)	114 (102-128)	181 (161-204)	103 (93-113)	114 (103-126)	104 (99-109)
April 26-May 2, 2020	145 (140-149)	146 (132-162)	200 (179-224)	114 (104-125)	125 (113-137)	152 (146-158)
May 3-9, 2020	129 (124-133)	121 (108-135)	191 (170-214)	101 (92-112)	136 (124-149)	129 (123-135)
May 10-16, 2020	149 (144-154)	147 (133-163)	190 (169-214)	116 (106-127)	157 (144-171)	152 (146-158)
May 17-23, 2020	155 (150-160)	151 (136-166)	207 (185-231)	118 (108-129)	133 (121-146)	164 (157-170)
May 24-30, 2020	198 (193-203)	165 (150-182)	298 (271-327)	164 (152-177)	182 (168-197)	206 (199-213)
May 31-June 6, 2020	174 (169-179)	174 (159-191)	263 (239-291)	152 (140-164)	156 (144-171)	173 (167-180)
June 7-13, 2020	158 (153-163)	169 (154-186)	282 (256-310)	128 (118-140)	147 (134-160)	153 (147-160)
June 14-20, 2020	142 (138-147)	144 (130-160)	227 (204-253)	129 (119-141)	122 (111-135)	141 (135-147)
June 21-27, 2020	160 (156-165)	161 (146-177)	221 (198-246)	165 (153-178)	147 (135-161)	156 (149-162)
June 28-July 4, 2020	133 (129-138)	131 (117-145)	187 (166-210)	138 (127-150)	121 (110-134)	129 (123-135)
July 5-11, 2020	162 (157-167)	172 (157-189)	196 (175-220)	173 (161-186)	150 (138-164)	155 (149-161)
July 12-18, 2020	214 (209-220)	269 (250-290)	218 (196-243)	225 (211-240)	199 (184-215)	205 (198-212)
July 19-25, 2020	293 (286-299)	323 (302-346)	248 (224-275)	294 (278-311)	339 (320-360)	281 (273-290)
July 26-August 1, 2020	326 (320-333)	358 (336-382)	258 (233-285)	360 (342-379)	445 (423-469)	293 (285-302)
August 2-8, 2020	366 (359-374)	366 (343-390)	277 (251-305)	429 (410-450)	547 (523-573)	319 (310-328)
August 9-15, 2020	407 (400-415)	389 (366-414)	352 (323-383)	409 (390-429)	681 (654-710)	355 (346-365)
August 16-22, 2020	387 (379-394)	324 (302-346)	339 (311-370)	441 (421-462)	538 (513-563)	355 (345-364)
August 23-29, 2020	357 (350-364)	269 (250-290)	392 (362-425)	335 (318-353)	512 (488-536)	341 (332-350)
August 30-September 5, 2020	354 (346-361)	302 (282-324)	293 (267-322)	295 (279-313)	526 (502-551)	343 (334-353)
September 6-12, 2020	313 (306-320)	287 (267-308)	332 (304-363)	239 (224-254)	296 (278-315)	339 (330-348)
September 13-19, 2020	416 (408-424)	433 (408-459)	340 (312-371)	321 (304-339)	329 (310-349)	463 (452-474)
September 20-26, 2020	476 (468-485)	419 (394-444)	339 (311-370)	359 (341-378)	337 (318-357)	558 (547-570)
September 27-October 3, 2020	550 (541-559)	584 (555-614)	515 (480-553)	416 (397-437)	403 (382-425)	613 (600-625)
October 4-10, 2020	536 (527-545)	677 (646-710)	533 (497-571)	402 (383-422)	416 (395-439)	569 (557-581)
October 11-17, 2020	546 (537-555)	499 (472-527)	603 (565-644)	477 (457-499)	393 (372-415)	598 (586-610)
October 18-24, 2020	643 (634-653)	621 (591-653)	928 (880-978)	526 (504-548)	397 (376-419)	702 (689-716)
October 25-31, 2020	799 (789-810)	778 (745-813)	1,278 (1,222-1,336)	637 (613-662)	529 (505-555)	857 (842-872)
November 1-7, 2020	887 (876-899)	940 (903-978)	866 (820-914)	773 (746-800)	715 (687-744)	947 (931-962)
November 8-14, 2020	727 (717-737)	661 (631-694)	864 (818-912)	689 (664-715)	537 (512-562)	771 (757-785)
November 15-21, 2020	760 (749-770)	707 (675-741)	920 (873-970)	788 (762-816)	626 (600-654)	768 (754-782)
November 22-28, 2020	672 (663-682)	610 (581-642)	951 (902-1,002)	618 (594-642)	533 (509-558)	696 (683-709)
November 29-December 5, 2020	596 (587-606)	583 (554-613)	995 (945-1,047)	450 (429-471)	462 (439-486)	624 (611-637)
December 6-12, 2020	561 (552-570)	616 (586-647)	917 (870-968)	420 (401-440)	448 (425-471)	575 (563-588)
December 13-19, 2020	520 (511-529)	496 (469-524)	1,130 (1,077-1,186)	430 (411-451)	397 (376-419)	512 (500-523)
December 20-26, 2020	357 (350-364)	313 (292-336)	711 (669-756)	300 (284-317)	258 (242-276)	364 (354-374)
December 27, 2020-January 2, 2021	352 (345-359)	351 (329-375)	646 (606-688)	285 (269-302)	280 (262-298)	354 (344-363)
January 3-9, 2021	438 (431-446)	428 (403-454)	1,151 (1,097-1,207)	321 (304-338)	370 (350-391)	412 (402-423)
January 10-16, 2021	435 (427-443)	380 (357-405)	1,379 (1,320-1,440)	299 (282-316)	375 (354-396)	400 (390-410)
January 17-23, 2021	423 (416-431)	454 (429-481)	1,385 (1,325-1,447)	262 (247-279)	353 (333-374)	382 (373-392)
January 24-30, 2021	411 (404-419)	485 (458-512)	1,105 (1,052-1,161)	285 (269-302)	391 (370-413)	369 (359-378)
January 31-February 6, 2021	390 (383-398)	409 (384-434)	959 (909-1,011)	298 (282-315)	363 (343-384)	361 (352-371)
February 7-13, 2021	378 (371-386)	372 (349-396)	1,154 (1,100-1,211)	275 (260-292)	279 (262-298)	352 (343-362)
February 14-20, 2021	403 (395-411)	421 (397-447)	1,139 (1,085-1,196)	282 (266-298)	284 (266-303)	387 (377-397)
February 21-27, 2021	395 (387-402)	413 (389-439)	924 (875-975)	291 (275-309)	329 (310-349)	383 (373-393)
February 28-March 6, 2021	403 (396-411)	390 (367-416)	1,044 (992-1,099)	296 (279-313)	324 (305-344)	389 (379-399)
March 7-13, 2021	422 (414-430)	397 (373-422)	1,230 (1,173-1,289)	298 (282-315)	354 (335-375)	396 (386-406)
March 14-20, 2021	454 (446-462)	356 (334-380)	1,112 (1,058-1,168)	347 (330-366)	404 (383-427)	448 (437-459)
March 21-27, 2021	481 (473-490)	404 (380-429)	1,033 (981-1,087)	333 (315-351)	398 (377-420)	500 (489-511)
March 28-April 3, 2021	396 (388-404)	325 (304-348)	1,026 (974-1,081)	277 (261-293)	325 (306-345)	395 (385-406)

<b>Week</b>	<b>Overall</b>	<b>Interlake-Eastern</b>	<b>Northern</b>	<b>Southern</b>	<b>Prairie Mountain</b>	<b>Winnipeg</b>
April 4-10, 2021	526 (517-535)	435 (410-461)	1,301 (1,242-1,362)	379 (360-398)	450 (428-474)	525 (514-537)
April 11-17, 2021	643 (634-653)	539 (512-569)	1,414 (1,353-1,478)	410 (391-430)	567 (542-594)	669 (656-682)
April 18-24, 2021	769 (759-780)	726 (694-760)	1,339 (1,280-1,401)	501 (480-523)	636 (609-664)	823 (809-838)
April 25-May 1, 2021	875 (864-887)	722 (690-756)	1,190 (1,134-1,248)	582 (559-606)	768 (739-799)	973 (958-989)
May 2-8, 2021	888 (876-899)	755 (722-790)	1,031 (979-1,086)	659 (634-684)	735 (707-765)	990 (974-1,006)
May 9-15, 2021	889 (878-901)	970 (933-1,009)	910 (861-961)	748 (722-775)	722 (694-752)	945 (929-960)
May 16-22, 2021	799 (788-809)	837 (802-874)	1,016 (964-1,070)	719 (693-745)	598 (573-625)	835 (821-850)
May 23-29, 2021	655 (645-665)	641 (610-673)	883 (835-934)	578 (555-602)	542 (518-568)	678 (665-691)

**Supplementary Table 6 Testing and incidence rates (per 1,000 person-years) and test positivity rate (95% confidence interval) according to certain socio-economic and clinical characteristics during the second<sup>a</sup> and third<sup>b</sup> waves by region and reason for testing**

	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
<b>Testing rates</b>						
Total	348 (343-353)	95 (93-98)	28 (27-29)	77 (76-79)	49 (48-50)	117 (117-118)
<b>Age</b>						
<10	362 (351-374)	72 (67-78)	24 (22-26)	46 (43-48)	57 (56-59)	64 (62-66)
10-17	379 (365-394)	53 (47-58)	31 (28-33)	35 (32-38)	66 (64-68)	60 (58-62)
18-29	394 (382-407)	103 (96-109)	31 (29-34)	81 (77-85)	58 (56-59)	116 (114-118)
30-49	354 (344-365)	106 (101-112)	30 (28-32)	90 (87-94)	50 (49-51)	117 (116-119)
50-64	293 (281-306)	114 (107-122)	19 (18-21)	90 (87-94)	36 (35-37)	119 (117-120)
≥65	223 (208-238)	152 (140-165)	33 (31-36)	109 (104-114)	40 (39-41)	189 (187-192)
<b>Income quintile</b>						
Q1 (lowest)	676 (663-691)	122 (117-129)	32 (30-35)	68 (64-71)	79 (78-80)	145 (143-147)
Q2	281 (273-290)	102 (97-107)	27 (25-30)	73 (70-77)	45 (44-46)	116 (114-118)
Q3	246 (229-264)	79 (70-90)	26 (24-28)	76 (72-79)	38 (37-39)	112 (110-114)
Q4	217 (207-227)	88 (82-95)	24 (23-26)	70 (67-72)	37 (36-38)	110 (108-112)
Q5 (highest)	157 (150-165)	62 (57-67)	25 (23-27)	95 (92-99)	36 (35-37)	103 (101-105)
Unknown	483 (362-645)	157 (95-261)	43 (39-48)	85 (79-91)	105 (101-109)	127 (123-132)
In long-term care - second wave	2,005 (1,631-2,465)	446 (287-691)	815 (726-916)	28 (15-53)	776 (741-812)	227 (209-247)
In long-term care - third wave	41 (6-291)	82 (20-327)	227 (169-306)	74 (44-125)	193 (170-218)	225 (200-253)
<b>COVID-19 vaccination status</b>						
Unvaccinated	349 (344-355)	91 (88-94)	27 (26-28)	72 (70-73)	48 (48-49)	112 (111-113)
≥14 days after first dose	353 (331-377)	146 (132-162)	29 (25-34)	182 (171-195)	57 (54-59)	196 (191-201)
≥7 days after second dose	298 (271-328)	149 (130-170)	70 (58-84)	225 (203-249)	62 (58-67)	215 (207-223)
<b>Incidence rates</b>						
Total	77.0 (74.6-79.5)	6.0 (5.3-6.7)	3.8 (3.5-4.2)	3.5 (3.2-3.8)	6.8 (6.6-7.0)	5.1 (5.0-5.3)
<b>Age</b>						
<10	96.4 (90.5-102.6)	3.8 (2.8-5.2)	2.7 (2.1-3.5)	0.6 (0.4-1.1)	9.7 (9.1-10.4)	3.1 (2.7-3.5)
10-17	92.3 (85.4-99.6)	3.0 (2.0-4.6)	3.9 (3.1-5.0)	2.3 (1.7-3.1)	10.0 (9.3-10.8)	5.1 (4.6-5.7)
18-29	91.8 (85.8-98.2)	8.0 (6.3-10.0)	4.9 (4.0-5.9)	4.7 (3.9-5.7)	7.7 (7.2-8.2)	7.5 (7.0-8.0)
30-49	66.0 (61.5-70.8)	8.1 (6.6-9.9)	4.0 (3.4-4.7)	4.6 (3.9-5.3)	5.8 (5.5-6.1)	6.5 (6.2-6.9)
50-64	56.6 (51.4-62.3)	7.2 (5.5-9.4)	2.7 (2.1-3.4)	4.7 (3.9-5.7)	4.8 (4.5-5.2)	4.7 (4.4-5.1)
≥65	36.7 (31.0-43.3)	3.4 (2.0-5.9)	5.2 (4.3-6.4)	3.3 (2.5-4.2)	6.3 (5.8-6.7)	2.6 (2.3-2.9)
<b>Income quintile</b>						
Q1 (lowest)	167.8 (161.0-174.9)	6.6 (5.4-8.1)	5.2 (4.3-6.2)	3.9 (3.2-4.9)	14.3 (13.7-14.9)	7.8 (7.3-8.2)
Q2	55.8 (52.2-59.8)	4.8 (3.8-6.0)	2.8 (2.1-3.6)	2.4 (1.8-3.2)	5.9 (5.5-6.3)	5.7 (5.3-6.1)
Q3	46.7 (39.7-54.9)	4.5 (2.7-7.6)	5.1 (4.3-6.1)	3.5 (2.8-4.4)	4.5 (4.2-4.9)	4.0 (3.7-4.4)
Q4	46.5 (42.1-51.4)	7.8 (6.2-10.0)	3.5 (3.0-4.2)	3.7 (3.2-4.4)	4.4 (4.0-4.7)	4.1 (3.8-4.5)
Q5 (highest)	25.0 (22.1-28.3)	5.8 (4.5-7.5)	2.6 (2.1-3.2)	3.6 (3.0-4.4)	3.4 (3.1-3.7)	4.2 (3.8-4.5)
Unknown	10.5 (1.5-74.5)	0.0 (0.0-40.0)	4.8 (3.6-6.5)	3.9 (2.8-5.4)	16.7 (15.2-18.3)	4.9 (4.1-5.8)
In long-term care - second wave	22.3 (3.1-158.2)	22.3 (3.1-158.2)	102.3 (73.8-141.8)	0.0 (0.0-11.0)	148.9 (134.1-165.2)	19.4 (14.5-25.9)
In long-term care - third wave	0.0 (0.0-151.7)	0.0 (0.0-151.7)	5.3 (0.7-37.5)	0.0 (0.0-19.8)	3.2 (1.2-8.5)	0.8 (0.1-5.7)
<b>COVID-19 vaccination status</b>						
Unvaccinated	81.9 (79.4-84.6)	6.4 (5.7-7.1)	3.9 (3.6-4.3)	3.6 (3.3-4.0)	7.1 (6.9-7.3)	5.3 (5.1-5.4)
≥14 days after first dose	27.3 (21.6-34.5)	1.2 (0.4-3.6)	2.5 (1.4-4.4)	1.7 (0.8-3.3)	3.9 (3.2-4.6)	4.1 (3.4-4.8)
≥7 days after second dose	7.0 (3.8-13.1)	1.4 (0.4-5.6)	1.2 (0.3-4.9)	0.6 (0.1-4.4)	1.2 (0.8-2.0)	0.9 (0.5-1.6)
<b>Test positivity</b>						
Total	22.1 (21.4-22.8)	6.2 (5.6-7.0)	13.8 (12.7-15.1)	4.6 (4.2-5.0)	13.9 (13.6-14.3)	4.4 (4.2-4.5)
<b>Age</b>						
<10	26.6 (25.0-28.3)	5.2 (3.8-7.2)	11.3 (8.8-14.6)	1.4 (0.8-2.3)	16.9 (15.8-18.1)	4.9 (4.3-5.5)
10-17	24.3 (22.5-26.3)	5.7 (3.7-8.8)	12.8 (10.0-16.3)	6.6 (4.8-9.1)	15.1 (14.0-16.3)	8.5 (7.7-9.5)
18-29	23.3 (21.8-24.9)	7.8 (6.2-9.8)	15.4 (12.8-18.6)	5.8 (4.8-7.1)	13.3 (12.5-14.2)	6.5 (6.1-6.9)
30-49	18.6 (17.4-20.0)	7.6 (6.2-9.3)	13.5 (11.4-15.9)	5.0 (4.3-5.9)	11.6 (11.0-12.3)	5.6 (5.3-5.9)
50-64	19.3 (17.5-21.2)	6.3 (4.8-8.2)	13.8 (10.8-17.6)	5.2 (4.3-6.3)	13.2 (12.3-14.3)	4.0 (3.7-4.3)
≥65	16.4 (13.9-19.4)	2.3 (1.3-3.9)	15.7 (12.9-19.2)	3.0 (2.3-3.8)	15.6 (14.6-16.8)	1.4 (1.2-1.5)



	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
Income quintile						
Q1 (lowest)	24.8 (23.8-25.9)	5.4 (4.4-6.6)	16.1 (13.4-19.4)	5.8 (4.7-7.2)	18.1 (17.3-18.9)	5.4 (5.1-5.7)
Q2	19.9 (18.6-21.3)	4.7 (3.7-5.9)	10.1 (7.8-13.0)	3.3 (2.5-4.3)	13.2 (12.4-14.2)	4.9 (4.6-5.2)
Q3	19.0 (16.1-22.3)	5.7 (3.4-9.6)	19.5 (16.3-23.3)	4.6 (3.8-5.8)	11.9 (11.1-12.9)	3.6 (3.3-3.9)
Q4	21.5 (19.4-23.7)	8.9 (7.0-11.3)	14.6 (12.3-17.4)	5.4 (4.5-6.4)	11.7 (10.8-12.7)	3.8 (3.5-4.1)
Q5 (highest)	15.9 (14.1-18.0)	9.4 (7.3-12.1)	10.3 (8.2-12.9)	3.8 (3.1-4.6)	9.2 (8.4-10.1)	4.0 (3.7-4.4)
Unknown	2.2 (0.3-15.4)	0.0 (0.0-26.3)	11.1 (8.2-14.9)	4.6 (3.3-6.4)	15.9 (14.5-17.5)	3.8 (3.2-4.5)
In long-term care - second wave	1.1 (0.2-7.9)	5.0 (0.7-35.5)	12.5 (9.0-17.4)	0.0 (0.0-41.0)	19.2 (17.3-21.3)	8.5 (6.4-11.4)
In long-term care - third wave	0.0 (0.0-368.9)	0.0 (0.0-184.4)	2.3 (0.3-16.5)	0.0 (0.0-30.7)	1.7 (0.6-4.4)	0.4 (0.0-2.5)
COVID-19 vaccination status						
Unvaccinated	23.5 (22.7-24.2)	7.0 (6.2-7.8)	14.4 (13.2-15.7)	5.1 (4.6-5.5)	14.6 (14.2-15.1)	4.7 (4.6-4.9)
≥14 days after first dose	7.7 (6.1-9.8)	0.8 (0.3-2.5)	8.6 (4.9-15.1)	0.9 (0.5-1.8)	6.8 (5.7-8.1)	2.1 (1.8-2.5)
≥7 days after second dose	2.4 (1.3-4.4)	0.9 (0.2-3.8)	1.8 (0.4-7.1)	0.3 (0.0-2.0)	2.0 (1.2-3.2)	0.4 (0.2-0.8)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>b</sup> The third wave is from March 1, 2021 to June 1, 2021.

**Supplementary Table 7 Testing and incidence rates (per 1,000 person-years) and test positivity rate (95% confidence interval) according to certain socio-economic and clinical characteristics during the second wave<sup>a</sup> by region and reason for testing**

	Northern		Southern		Rest of Manitoba	
	Screening	Symptomatic	Screening	Symptomatic	Screening	Symptomatic
<b>Testing rates</b>						
Total	248 (242-253)	306 (300-312)	95 (93-97)	241 (238-244)	133 (132-134)	238 (237-240)
<b>Age</b>						
<10	115 (107-124)	178 (168-188)	42 (39-46)	183 (176-190)	86 (83-88)	252 (248-256)
10-17	157 (145-169)	222 (209-237)	61 (56-66)	195 (186-203)	106 (103-109)	220 (216-225)
18-29	315 (301-330)	377 (362-393)	109 (104-115)	291 (282-300)	165 (162-168)	289 (285-293)
30-49	330 (318-344)	377 (363-391)	115 (110-119)	286 (279-293)	162 (159-164)	287 (284-290)
50-64	309 (293-325)	338 (322-355)	97 (93-103)	222 (215-230)	123 (120-125)	205 (202-208)
≥65	255 (236-276)	354 (331-378)	137 (131-144)	245 (236-254)	120 (118-123)	156 (154-159)
<b>Income quintile</b>						
Q1 (lowest)	326 (314-338)	302 (290-313)	97 (92-102)	222 (214-230)	156 (153-159)	236 (233-240)
Q2	237 (227-247)	262 (252-272)	107 (102-113)	235 (227-244)	131 (129-133)	237 (234-241)
Q3	307 (283-332)	360 (334-388)	97 (93-103)	249 (242-258)	127 (125-130)	232 (229-235)
Q4	213 (201-226)	313 (298-328)	89 (85-93)	223 (217-230)	123 (120-125)	245 (241-248)
Q5 (highest)	169 (159-179)	351 (337-366)	91 (87-96)	269 (261-276)	111 (109-113)	239 (235-242)
Unknown	304 (191-482)	455 (312-664)	90 (83-98)	259 (246-273)	223 (216-231)	260 (252-268)
In long-term care	802 (579-1,112)	423 (270-664)	608 (532-695)	446 (382-522)	994 (955-1,035)	434 (409-462)
<b>COVID-19 vaccination status</b>						
Unvaccinated	242 (237-248)	306 (300-312)	95 (93-97)	241 (238-244)	132 (131-133)	239 (238-240)
≥14 days after first dose	946 (829-1,079)	315 (251-396)	182 (127-262)	245 (179-336)	383 (350-420)	188 (166-214)
≥7 days after second dose	231 (87-615)	115 (29-461)	31 (12-84)	110 (65-185)	94 (78-114)	83 (68-101)
<b>Incidence rates</b>						
Total	19.7 (18.2-21.3)	44.8 (42.6-47.2)	6.9 (6.3-7.4)	31.1 (29.9-32.3)	8.7 (8.5-9.0)	21.3 (20.9-21.7)
<b>Age</b>						
<10	14.0 (11.4-17.3)	26.9 (23.2-31.3)	4.6 (3.6-5.8)	7.1 (5.8-8.7)	8.4 (7.7-9.2)	8.9 (8.1-9.7)
10-17	16.9 (13.5-21.2)	33.8 (28.8-39.7)	6.3 (4.9-8.0)	19.6 (17.1-22.5)	9.4 (8.5-10.4)	18.8 (17.6-20.2)
18-29	25.7 (21.9-30.2)	60.5 (54.5-67.2)	8.2 (6.8-9.8)	38.9 (35.8-42.3)	9.8 (9.1-10.6)	27.2 (26.0-28.5)
30-49	23.5 (20.2-27.2)	48.8 (44.0-54.0)	7.3 (6.2-8.5)	35.1 (32.7-37.7)	8.6 (8.1-9.2)	24.7 (23.8-25.6)
50-64	19.6 (15.9-24.0)	49.6 (43.6-56.5)	7.0 (5.8-8.5)	36.9 (34.0-40.1)	7.2 (6.7-7.8)	21.8 (20.8-22.8)
≥65	16.4 (12.0-22.4)	52.5 (44.0-62.5)	7.9 (6.4-9.7)	47.8 (44.0-51.9)	9.8 (9.1-10.5)	20.1 (19.1-21.1)
<b>Income quintile</b>						
Q1 (lowest)	28.6 (25.2-32.4)	57.2 (52.3-62.5)	6.8 (5.5-8.3)	33.5 (30.5-36.6)	12.4 (11.7-13.2)	31.7 (30.6-32.9)
Q2	21.1 (18.4-24.3)	33.3 (29.8-37.2)	5.9 (4.7-7.4)	29.1 (26.4-32.2)	8.8 (8.2-9.4)	21.8 (20.8-22.8)
Q3	25.2 (19.1-33.4)	52.0 (42.8-63.2)	8.1 (6.7-9.7)	36.1 (33.1-39.3)	6.7 (6.2-7.2)	17.0 (16.2-17.8)
Q4	13.5 (10.7-17.1)	46.1 (40.6-52.4)	7.6 (6.6-8.9)	34.0 (31.6-36.5)	7.4 (6.8-8.0)	18.3 (17.5-19.3)
Q5 (highest)	9.0 (7.0-11.7)	41.9 (37.2-47.2)	5.5 (4.6-6.7)	25.1 (22.9-27.5)	5.3 (4.8-5.8)	16.0 (15.1-16.8)
Unknown	16.9 (2.4-119.7)	67.5 (25.3-179.8)	7.3 (5.3-9.9)	24.8 (20.9-29.3)	26.0 (23.6-28.6)	31.8 (29.1-34.7)
In long-term care	0.0 (0.0-84.6)	22.3 (3.1-158.2)	96.6 (69.0-135.2)	42.6 (25.7-70.7)	151.8 (136.9-168.3)	103.7 (91.6-117.5)
<b>COVID-19 vaccination status</b>						
Unvaccinated	19.8 (18.3-21.4)	45.1 (42.8-47.5)	6.9 (6.4-7.5)	31.2 (30.0-32.4)	8.8 (8.5-9.0)	21.4 (21.0-21.8)
≥14 days after first dose	0.0 (0.0-17.1)	12.8 (4.1-39.6)	0.0 (0.0-26.9)	0.0 (0.0-26.9)	5.8 (2.7-12.1)	1.6 (0.4-6.6)
≥7 days after second dose	0.0 (0.0-354.3)	0.0 (0.0-354.3)	0.0 (0.0-32.0)	0.0 (0.0-32.0)	0.0 (0.0-3.6)	0.9 (0.1-6.2)
<b>Test positivity</b>						
Total	7.9 (7.3-8.6)	14.7 (13.9-15.5)	7.2 (6.7-7.8)	12.9 (12.4-13.4)	6.6 (6.4-6.8)	8.9 (8.8-9.1)
<b>Age</b>						
<10	12.2 (9.9-15.0)	15.2 (13.0-17.6)	10.9 (8.5-13.9)	3.9 (3.2-4.7)	9.8 (8.9-10.7)	3.5 (3.2-3.9)
10-17	10.8 (8.6-13.6)	15.2 (13.0-17.9)	10.4 (8.1-13.2)	10.1 (8.8-11.6)	8.8 (8.0-9.8)	8.5 (8.0-9.2)
18-29	8.2 (6.9-9.6)	16.0 (14.5-17.8)	7.5 (6.2-9.0)	13.4 (12.3-14.5)	5.9 (5.5-6.4)	9.4 (9.0-9.9)
30-49	7.1 (6.1-8.2)	13.0 (11.7-14.3)	6.4 (5.4-7.4)	12.3 (11.5-13.2)	5.3 (5.0-5.7)	8.6 (8.3-8.9)
50-64	6.3 (5.2-7.8)	14.7 (12.9-16.7)	7.2 (5.9-8.7)	16.6 (15.3-18.1)	5.9 (5.5-6.4)	10.6 (10.2-11.1)
≥65	6.4 (4.7-8.8)	14.8 (12.4-17.7)	5.8 (4.7-7.1)	19.5 (17.9-21.2)	8.1 (7.6-8.7)	12.9 (12.2-13.5)
<b>Income quintile</b>						
Q1 (lowest)	8.8 (7.7-9.9)	19.0 (17.3-20.7)	7.0 (5.7-8.6)	15.1 (13.7-16.5)	8.0 (7.5-8.5)	13.4 (12.9-13.9)
Q2	8.9 (7.8-10.3)	12.7 (11.4-14.2)	5.5 (4.4-6.9)	12.4 (11.2-13.7)	6.7 (6.3-7.2)	9.2 (8.8-9.6)

	Northern		Southern		Rest of Manitoba	
	Screening	Symptomatic	Screening	Symptomatic	Screening	Symptomatic
Q3	8.2 (6.2-10.9)	14.4 (11.9-17.6)	8.3 (6.9-9.9)	14.5 (13.3-15.7)	5.2 (4.8-5.7)	7.3 (7.0-7.7)
Q4	6.3 (5.0-8.0)	14.7 (13.0-16.7)	8.6 (7.4-10.0)	15.2 (14.2-16.3)	6.0 (5.6-6.5)	7.5 (7.1-7.9)
Q5 (highest)	5.3 (4.1-6.9)	11.9 (10.6-13.4)	6.1 (5.0-7.4)	9.4 (8.5-10.2)	4.8 (4.4-5.2)	6.7 (6.3-7.0)
Unknown	5.6 (0.8-39.4)	14.8 (5.6-39.5)	8.1 (5.9-11.0)	9.6 (8.1-11.3)	11.6 (10.6-12.8)	12.2 (11.2-13.3)
In long-term care	0.0 (0.0-10.5)	5.3 (0.7-37.4)	15.9 (11.4-22.2)	9.6 (5.8-15.8)	15.3 (13.8-16.9)	23.9 (21.1-27.1)
COVID-19 vaccination status						
Unvaccinated	8.2 (7.6-8.9)	14.8 (14.0-15.5)	7.3 (6.7-7.9)	12.9 (12.5-13.4)	6.6 (6.4-6.8)	9.0 (8.8-9.1)
≥14 days after first dose	0.0 (0.0-1.6)	4.1 (1.3-12.6)	0.0 (0.0-13.7)	0.0 (0.0-10.0)	1.5 (0.7-3.2)	0.9 (0.2-3.5)
≥7 days after second dose	0.0 (0.0-61.5)	0.0 (0.0-368.9)	0.0 (0.0-92.2)	0.0 (0.0-24.6)	0.0 (0.0-3.4)	1.1 (0.1-7.6)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021.

**Supplementary Table 8 Testing and incidence rates (per 1,000 person-years) and test positivity rate (95% confidence interval) according to certain socio-economic and clinical characteristics during the second wave<sup>a</sup> by region and reason for testing**

	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
<b>Testing rates</b>						
Total	323 (317-329)	80 (77-84)	30 (29-31)	63 (61-65)	46 (45-46)	103 (102-104)
<b>Age</b>						
<10	305 (292-319)	45 (40-51)	19 (17-22)	32 (29-35)	39 (37-41)	51 (49-53)
10-17	290 (275-306)	38 (33-44)	31 (28-34)	29 (26-33)	48 (46-50)	52 (50-54)
18-29	383 (368-400)	87 (80-95)	34 (31-37)	70 (65-74)	55 (53-57)	105 (103-108)
30-49	343 (330-356)	97 (91-105)	33 (30-35)	79 (75-83)	46 (45-48)	106 (104-108)
50-64	306 (290-322)	103 (94-113)	23 (20-25)	75 (71-79)	37 (36-38)	104 (102-106)
≥65	267 (247-288)	138 (124-154)	44 (40-48)	80 (75-85)	50 (48-51)	162 (159-165)
<b>Income quintile</b>						
Q1 (lowest)	563 (547-579)	103 (96-110)	34 (31-37)	53 (50-57)	73 (71-74)	127 (125-130)
Q2	254 (244-265)	83 (78-90)	26 (24-29)	56 (52-60)	40 (38-41)	103 (101-105)
Q3	268 (246-292)	69 (59-82)	32 (30-35)	61 (57-65)	33 (32-34)	96 (94-98)
Q4	256 (243-271)	71 (64-78)	27 (25-29)	58 (55-61)	34 (33-36)	96 (94-98)
Q5 (highest)	171 (161-181)	56 (50-62)	26 (23-28)	81 (77-86)	33 (32-35)	92 (90-94)
Unknown	725 (538-978)	186 (103-335)	48 (43-54)	69 (63-77)	129 (124-135)	115 (110-121)
In long-term care	2,005 (1,631-2,465)	446 (287-691)	815 (726-916)	28 (15-53)	776 (741-812)	227 (209-247)
<b>COVID-19 vaccination status</b>						
Unvaccinated	321 (315-327)	79 (76-83)	30 (29-31)	62 (61-64)	45 (44-46)	103 (102-104)
≥14 days after first dose	597 (506-704)	205 (154-271)	176 (122-255)	327 (249-429)	302 (273-334)	211 (186-238)
≥7 days after second dose	346 (156-771)	115 (29-461)	8 (1-56)	267 (191-373)	18 (12-28)	164 (142-190)
<b>Incidence rates</b>						
Total	81.7 (78.6-84.9)	7.2 (6.4-8.2)	4.7 (4.2-5.2)	4.1 (3.7-4.5)	7.2 (7.0-7.5)	4.4 (4.2-4.6)
<b>Age</b>						
<10	93.3 (86.1-101.1)	3.3 (2.2-5.1)	2.6 (1.9-3.6)	0.7 (0.4-1.3)	8.1 (7.4-8.9)	2.0 (1.6-2.4)
10-17	89.8 (81.4-99.1)	3.6 (2.2-5.9)	4.4 (3.3-5.8)	2.1 (1.4-3.2)	9.2 (8.3-10.1)	4.1 (3.6-4.8)
18-29	101.9 (94.0-110.5)	10.0 (7.7-12.9)	6.0 (4.8-7.4)	5.6 (4.5-6.9)	7.6 (7.0-8.3)	5.9 (5.4-6.5)
30-49	71.8 (66.0-78.2)	10.7 (8.6-13.3)	4.6 (3.8-5.6)	5.5 (4.6-6.6)	6.3 (5.8-6.7)	5.6 (5.2-6.0)
50-64	66.8 (59.8-74.7)	8.8 (6.5-12.0)	3.5 (2.7-4.6)	5.4 (4.3-6.7)	5.4 (4.9-5.9)	4.6 (4.1-5.0)
≥65	47.0 (39.1-56.6)	4.2 (2.3-7.8)	7.7 (6.3-9.5)	3.8 (2.8-5.1)	8.9 (8.3-9.6)	2.9 (2.5-3.3)
<b>Income quintile</b>						
Q1 (lowest)	158.8 (150.6-167.5)	7.7 (6.1-9.8)	6.4 (5.2-7.8)	4.6 (3.6-5.8)	15.5 (14.6-16.3)	6.7 (6.2-7.3)
Q2	60.4 (55.6-65.5)	6.0 (4.7-7.8)	2.7 (1.9-3.7)	2.5 (1.8-3.5)	5.9 (5.4-6.4)	4.8 (4.4-5.3)
Q3	58.7 (48.8-70.5)	5.7 (3.1-10.2)	7.2 (5.9-8.7)	4.3 (3.4-5.5)	4.1 (3.7-4.5)	3.3 (2.9-3.7)
Q4	64.5 (57.9-71.7)	9.1 (6.8-12.1)	4.4 (3.6-5.4)	4.3 (3.5-5.3)	4.4 (4.0-4.9)	3.7 (3.3-4.2)
Q5 (highest)	32.0 (27.9-36.7)	7.5 (5.6-9.9)	2.9 (2.2-3.8)	4.2 (3.4-5.3)	3.5 (3.1-3.9)	3.7 (3.3-4.1)
Unknown	0.0 (0.0-64.0)	0.0 (0.0-64.0)	5.5 (3.8-7.8)	4.6 (3.1-6.7)	23.3 (21.1-25.8)	3.9 (3.1-5.0)
In long-term care	22.3 (3.1-158.2)	22.3 (3.1-158.2)	102.3 (73.8-141.8)	0.0 (0.0-11.0)	148.9 (134.1-165.2)	19.4 (14.5-25.9)
<b>COVID-19 vaccination status</b>						
Unvaccinated	82.1 (78.9-85.3)	7.3 (6.4-8.3)	4.6 (4.2-5.1)	4.1 (3.7-4.5)	7.2 (7.0-7.5)	4.4 (4.2-4.6)
≥14 days after first dose	42.6 (22.9-79.2)	0.0 (0.0-17.1)	25.2 (9.4-67.0)	0.0 (0.0-26.9)	20.6 (13.9-30.4)	0.8 (0.1-5.8)
≥7 days after second dose	0.0 (0.0-354.3)	0.0 (0.0-354.3)	0.0 (0.0-32.0)	0.0 (0.0-32.0)	0.0 (0.0-3.6)	0.9 (0.1-6.2)
<b>Test positivity</b>						
Total	25.3 (24.3-26.3)	9.0 (7.9-10.3)	15.6 (14.2-17.2)	6.5 (5.8-7.2)	15.9 (15.3-16.4)	4.3 (4.1-4.5)
<b>Age</b>						
<10	30.6 (28.2-33.2)	7.3 (4.8-11.2)	13.7 (9.9-19.0)	2.3 (1.2-4.2)	20.8 (18.9-22.9)	3.9 (3.2-4.7)
10-17	30.9 (28.1-34.1)	9.5 (5.8-15.5)	14.2 (10.6-19.0)	7.3 (4.8-11.1)	19.1 (17.3-21.2)	8.0 (6.9-9.3)
18-29	26.6 (24.5-28.8)	11.5 (8.9-14.9)	17.6 (14.2-21.7)	8.0 (6.4-10.0)	13.9 (12.8-15.1)	5.6 (5.1-6.2)
30-49	21.0 (19.3-22.8)	10.9 (8.8-13.6)	14.2 (11.7-17.3)	7.0 (5.9-8.4)	13.5 (12.6-14.5)	5.3 (4.9-5.7)
50-64	21.9 (19.6-24.4)	8.5 (6.3-11.6)	15.4 (11.8-20.2)	7.2 (5.8-8.9)	14.6 (13.3-16.0)	4.4 (4.0-4.9)
≥65	17.6 (14.6-21.2)	3.0 (1.6-5.6)	17.7 (14.4-21.8)	4.7 (3.5-6.4)	17.9 (16.6-19.3)	1.8 (1.6-2.0)
<b>Income quintile</b>						
Q1 (lowest)	28.2 (26.8-29.8)	7.5 (5.9-9.5)	18.6 (15.1-22.9)	8.5 (6.7-10.9)	21.3 (20.2-22.5)	5.3 (4.8-5.7)
Q2	23.7 (21.9-25.8)	7.2 (5.6-9.4)	10.1 (7.3-14.1)	4.5 (3.2-6.3)	15.0 (13.7-16.3)	4.7 (4.3-5.2)

	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
Q3	21.9 (18.2-26.3)	8.1 (4.5-14.7)	22.2 (18.4-26.9)	7.1 (5.6-9.1)	12.4 (11.2-13.7)	3.4 (3.1-3.8)
Q4	25.1 (22.6-28.0)	12.8 (9.6-17.0)	16.3 (13.4-19.9)	7.4 (6.1-9.1)	12.8 (11.5-14.1)	3.9 (3.5-4.3)
Q5 (highest)	18.7 (16.3-21.5)	13.3 (10.0-17.7)	11.3 (8.7-14.8)	5.2 (4.2-6.5)	10.4 (9.3-11.7)	4.0 (3.6-4.5)
Unknown	0.0 (0.0-8.6)	0.0 (0.0-36.9)	11.4 (7.9-16.3)	6.6 (4.4-9.7)	18.0 (16.3-19.9)	3.4 (2.7-4.4)
In long-term care	1.1 (0.2-7.9)	5.0 (0.7-35.5)	12.5 (9.0-17.4)	0.0 (0.0-41.0)	19.2 (17.3-21.3)	8.5 (6.4-11.4)
COVID-19 vaccination status						
Unvaccinated	25.6 (24.6-26.6)	9.2 (8.1-10.5)	15.6 (14.2-17.2)	6.6 (5.9-7.3)	16.0 (15.5-16.6)	4.3 (4.1-4.5)
≥14 days after first dose	7.1 (3.8-13.3)	0.0 (0.0-8.8)	14.3 (5.4-38.1)	0.0 (0.0-7.8)	6.8 (4.6-10.1)	0.4 (0.1-2.8)
≥7 days after second dose	0.0 (0.0-61.5)	0.0 (0.0-184.4)	0.0 (0.0-368.9)	0.0 (0.0-10.5)	0.0 (0.0-9.0)	0.5 (0.1-3.8)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021.

**Supplementary Table 9 Testing and incidence rates (per 1,000 person-years) and test positivity rate (95% confidence interval) according to certain socio-economic and clinical characteristics during the third wave<sup>a</sup> by region and reason for testing**

	Northern		Southern		Rest of Manitoba	
	Screening	Symptomatic	Screening	Symptomatic	Screening	Symptomatic
<b>Testing rates</b>						
Total	243 (236-250)	332 (324-340)	97 (95-100)	239 (235-243)	171 (170-173)	249 (247-250)
<b>Age</b>						
<10	130 (119-142)	269 (253-286)	84 (78-90)	319 (308-332)	186 (181-190)	391 (384-398)
10-17	186 (170-204)	353 (331-377)	90 (83-98)	231 (219-243)	181 (175-186)	247 (240-253)
18-29	281 (264-300)	376 (356-398)	112 (105-119)	242 (232-253)	217 (212-221)	293 (288-298)
30-49	332 (315-349)	372 (354-390)	114 (109-120)	266 (258-275)	207 (204-210)	293 (290-297)
50-64	302 (282-323)	314 (294-336)	83 (77-89)	179 (170-187)	136 (132-139)	177 (174-181)
≥65	207 (185-232)	266 (241-294)	97 (90-105)	179 (170-189)	101 (98-104)	117 (114-120)
<b>Income quintile</b>						
Q1 (lowest)	408 (390-427)	388 (371-406)	80 (74-86)	198 (189-208)	178 (175-182)	239 (234-243)
Q2	290 (276-304)	326 (311-341)	109 (102-116)	252 (241-263)	177 (173-180)	251 (247-255)
Q3	111 (93-132)	279 (251-311)	81 (75-87)	223 (213-233)	167 (164-170)	245 (241-249)
Q4	123 (111-136)	267 (249-286)	92 (87-97)	230 (222-239)	172 (169-176)	251 (247-256)
Q5 (highest)	111 (101-123)	341 (323-360)	108 (102-115)	259 (250-269)	154 (151-158)	256 (251-260)
Unknown	83 (27-259)	278 (150-517)	140 (129-153)	315 (297-334)	205 (197-214)	258 (248-268)
In long-term care	328 (164-655)	246 (110-547)	317 (246-408)	153 (106-221)	419 (384-456)	175 (153-200)
<b>COVID-19 vaccination status</b>						
Unvaccinated	223 (216-231)	321 (312-330)	92 (90-95)	239 (235-244)	170 (169-172)	260 (258-262)
≥14 days after first dose	306 (285-330)	411 (386-438)	125 (115-136)	236 (222-250)	162 (158-166)	188 (184-193)
≥7 days after second dose	350 (320-382)	323 (295-354)	166 (146-188)	229 (206-254)	212 (204-221)	184 (177-192)
<b>Incidence rates</b>						
Total	11.4 (10.0-13.1)	33.4 (30.9-36.1)	5.0 (4.5-5.7)	21.6 (20.4-22.8)	9.6 (9.2-10.0)	26.8 (26.2-27.4)
<b>Age</b>						
<10	13.6 (10.3-17.9)	28.3 (23.3-34.3)	5.8 (4.4-7.6)	11.0 (9.0-13.5)	17.9 (16.5-19.4)	21.6 (20.0-23.3)
10-17	17.1 (12.7-23.0)	37.7 (30.9-46.1)	7.0 (5.2-9.3)	22.6 (19.2-26.6)	12.9 (11.6-14.4)	31.3 (29.2-33.6)
18-29	12.2 (9.0-16.6)	41.5 (35.1-49.0)	5.1 (3.8-6.8)	27.5 (24.3-31.3)	12.6 (11.6-13.7)	43.4 (41.5-45.3)
30-49	12.1 (9.2-15.8)	35.7 (30.6-41.8)	5.6 (4.5-7.1)	27.0 (24.4-30.0)	9.5 (8.8-10.2)	32.6 (31.3-33.9)
50-64	6.2 (3.9-10.0)	28.9 (23.2-36.0)	4.4 (3.2-6.0)	20.4 (17.7-23.6)	6.6 (6.0-7.4)	20.1 (18.9-21.4)
≥65	4.3 (1.9-9.5)	22.7 (16.1-32.1)	2.4 (1.5-3.9)	19.0 (16.1-22.5)	2.7 (2.3-3.2)	10.3 (9.4-11.2)
<b>Income quintile</b>						
Q1 (lowest)	23.4 (19.4-28.1)	51.8 (45.7-58.7)	5.1 (3.8-6.9)	23.1 (20.0-26.5)	12.4 (11.5-13.4)	37.4 (35.7-39.1)
Q2	11.6 (9.1-14.8)	30.8 (26.6-35.8)	7.3 (5.6-9.4)	26.7 (23.3-30.5)	10.4 (9.5-11.3)	28.5 (27.1-30.0)
Q3	7.7 (4.0-14.9)	28.4 (20.2-39.9)	3.1 (2.1-4.5)	17.9 (15.3-20.8)	9.8 (9.0-10.6)	25.7 (24.4-27.1)
Q4	4.2 (2.4-7.2)	24.8 (19.9-31.0)	5.9 (4.7-7.3)	24.4 (21.9-27.2)	8.5 (7.7-9.3)	23.1 (21.8-24.4)
Q5 (highest)	3.6 (2.1-6.1)	23.2 (18.9-28.6)	3.6 (2.6-4.9)	17.1 (14.9-19.7)	5.9 (5.3-6.6)	19.0 (17.8-20.2)
Unknown	0.0 (0.0-105.5)	0.0 (0.0-105.5)	6.3 (4.2-9.6)	19.0 (14.9-24.2)	14.5 (12.3-17.0)	27.6 (24.6-31.0)
In long-term care	0.0 (0.0-151.7)	0.0 (0.0-151.7)	5.3 (0.7-37.5)	21.1 (7.9-56.3)	2.4 (0.8-7.4)	2.4 (0.8-7.4)
<b>COVID-19 vaccination status</b>						
Unvaccinated	13.4 (11.6-15.4)	38.0 (35.0-41.3)	5.3 (4.7-6.0)	22.8 (21.5-24.2)	10.4 (10.0-10.8)	29.5 (28.8-30.2)
≥14 days after first dose	4.7 (2.6-8.5)	18.0 (13.3-24.4)	3.7 (2.3-5.9)	14.2 (11.1-18.0)	6.5 (5.7-7.5)	14.4 (13.2-15.8)
≥7 days after second dose	2.1 (0.7-6.6)	10.0 (5.9-16.9)	0.0 (0.0-2.5)	4.0 (1.8-9.0)	2.2 (1.5-3.2)	5.6 (4.4-7.2)
<b>Test positivity</b>						
Total	4.7 (4.1-5.4)	10.1 (9.3-10.9)	5.2 (4.6-5.8)	9.0 (8.5-9.6)	5.6 (5.4-5.8)	10.8 (10.5-11.0)
<b>Age</b>						
<10	10.5 (7.9-13.8)	10.5 (8.7-12.7)	6.9 (5.2-9.1)	3.5 (2.8-4.2)	9.6 (8.9-10.5)	5.5 (5.1-6.0)
10-17	9.2 (6.8-12.3)	10.7 (8.8-13.0)	7.7 (5.7-10.4)	9.8 (8.3-11.5)	7.1 (6.4-8.0)	12.7 (11.9-13.6)
18-29	4.4 (3.2-5.9)	11.0 (9.3-13.0)	4.5 (3.4-6.1)	11.4 (10.0-12.9)	5.8 (5.3-6.3)	14.8 (14.2-15.5)
30-49	3.6 (2.8-4.8)	9.6 (8.2-11.2)	4.9 (3.9-6.2)	10.2 (9.2-11.3)	4.6 (4.3-4.9)	11.1 (10.7-11.5)
50-64	2.1 (1.3-3.3)	9.2 (7.4-11.5)	5.3 (3.9-7.3)	11.4 (9.9-13.2)	4.9 (4.4-5.4)	11.3 (10.7-12.0)
≥65	2.1 (0.9-4.6)	8.5 (6.0-12.1)	2.5 (1.5-4.0)	10.6 (9.0-12.6)	2.7 (2.3-3.2)	8.8 (8.0-9.6)
<b>Income quintile</b>						
Q1 (lowest)	5.7 (4.8-6.9)	13.3 (11.8-15.1)	6.4 (4.7-8.6)	11.6 (10.1-13.4)	6.9 (6.4-7.5)	15.7 (15.0-16.4)
Q2	4.0 (3.1-5.1)	9.5 (8.1-11.0)	6.7 (5.2-8.6)	10.6 (9.3-12.1)	5.9 (5.4-6.4)	11.4 (10.8-11.9)

	Northern		Southern		Rest of Manitoba	
	Screening	Symptomatic	Screening	Symptomatic	Screening	Symptomatic
Q3	7.0 (3.6-13.4)	10.2 (7.2-14.3)	3.8 (2.6-5.5)	8.0 (6.9-9.3)	5.8 (5.4-6.4)	10.5 (10.0-11.0)
Q4	3.4 (2.0-5.9)	9.3 (7.4-11.6)	6.4 (5.1-7.9)	10.6 (9.5-11.8)	4.9 (4.5-5.4)	9.2 (8.7-9.7)
Q5 (highest)	3.2 (1.9-5.5)	6.8 (5.5-8.4)	3.3 (2.4-4.5)	6.6 (5.7-7.6)	3.8 (3.4-4.3)	7.4 (7.0-7.9)
Unknown	0.0 (0.0-123.0)	0.0 (0.0-36.9)	4.5 (3.0-6.8)	6.0 (4.7-7.7)	7.0 (6.0-8.3)	10.7 (9.5-12.0)
In long-term care	0.0 (0.0-46.1)	0.0 (0.0-61.5)	1.7 (0.2-11.8)	13.8 (5.2-36.8)	0.6 (0.2-1.8)	1.4 (0.4-4.2)
COVID-19 vaccination status						
Unvaccinated	6.0 (5.2-6.9)	11.9 (10.9-12.9)	5.8 (5.1-6.5)	9.5 (9.0-10.1)	6.1 (5.9-6.3)	11.3 (11.1-11.6)
≥14 days after first dose	1.5 (0.9-2.8)	4.4 (3.2-5.9)	2.9 (1.8-4.7)	6.0 (4.7-7.7)	4.0 (3.5-4.6)	7.7 (7.0-8.4)
≥7 days after second dose	0.6 (0.2-1.9)	3.1 (1.8-5.2)	0.0 (0.0-1.5)	1.8 (0.8-3.9)	1.0 (0.7-1.5)	3.1 (2.4-3.9)

<sup>a</sup> The third wave is from March 1, 2021 to June 1, 2021.

**Supplementary Table 10 Adjusted<sup>a</sup> associations between certain socio-economic and clinical characteristics and COVID-19 testing and incidence during the second<sup>b</sup> and third<sup>c</sup> waves by region and reason for testing**

	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
<b>Testing (rate ratio)</b>						
Age						
<10	0.97 (0.93-1.02)	0.96 (0.87-1.06)	0.85 (0.76-0.94)	0.65 (0.61-0.70)	1.19 (1.15-1.23)	0.65 (0.63-0.67)
10-17	1.04 (0.99-1.09)	0.72 (0.64-0.82)	1.06 (0.95-1.18)	0.51 (0.47-0.56)	1.43 (1.38-1.49)	0.68 (0.65-0.70)
18-29	1.11 (1.06-1.16)	1.18 (1.08-1.30)	1.10 (1.00-1.22)	1.07 (1.00-1.13)	1.22 (1.19-1.26)	1.18 (1.15-1.20)
30-49	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
50-64	0.80 (0.76-0.84)	0.77 (0.70-0.85)	0.59 (0.53-0.66)	0.76 (0.71-0.80)	0.65 (0.63-0.68)	0.79 (0.77-0.80)
≥65	0.55 (0.51-0.60)	0.79 (0.70-0.88)	0.50 (0.43-0.57)	0.69 (0.64-0.73)	0.41 (0.39-0.43)	0.93 (0.91-0.95)
Female	1.11 (1.08-1.15)	1.06 (1.00-1.13)	1.05 (0.99-1.12)	1.29 (1.24-1.35)	1.01 (0.99-1.03)	1.16 (1.15-1.18)
Income quintile						
Q1 (lowest)	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Q2	0.42 (0.40-0.43)	0.83 (0.77-0.89)	0.81 (0.72-0.90)	1.07 (0.99-1.15)	0.58 (0.56-0.60)	0.83 (0.81-0.84)
Q3	0.38 (0.35-0.41)	0.67 (0.58-0.77)	0.80 (0.72-0.89)	1.14 (1.06-1.22)	0.50 (0.48-0.52)	0.79 (0.78-0.81)
Q4	0.34 (0.32-0.35)	0.75 (0.68-0.82)	0.76 (0.69-0.84)	1.07 (1.00-1.14)	0.49 (0.48-0.51)	0.80 (0.78-0.81)
Q5 (highest)	0.24 (0.23-0.26)	0.54 (0.49-0.59)	0.81 (0.73-0.90)	1.40 (1.32-1.50)	0.49 (0.47-0.50)	0.79 (0.77-0.80)
Unknown	0.34 (0.24-0.46)	0.77 (0.43-1.39)	1.11 (0.98-1.26)	1.33 (1.22-1.46)	0.83 (0.79-0.87)	0.88 (0.84-0.91)
In long-term care-second wave	9.24 (7.18-11.91)	2.59 (1.50-4.48)	39.65 (32.77-47.99)	0.28 (0.14-0.54)	18.68 (17.33-20.14)	0.92 (0.84-1.01)
In long-term care-third wave	0.40 (0.05-2.95)	0.32 (0.09-1.12)	18.96 (12.77-28.15)	0.37 (0.21-0.66)	8.94 (7.70-10.38)	0.64 (0.56-0.73)
Any chronic disease	1.16 (1.10-1.21)	1.54 (1.42-1.68)	1.08 (0.97-1.19)	1.32 (1.25-1.39)	1.22 (1.18-1.25)	1.40 (1.38-1.43)
Immunosuppressed	0.94 (0.86-1.02)	1.06 (0.93-1.20)	0.97 (0.82-1.15)	1.30 (1.21-1.40)	1.03 (0.98-1.08)	1.33 (1.30-1.36)
Use of ARBs/ACEIs <sup>d</sup>	1.16 (1.10-1.23)	1.03 (0.94-1.13)	1.05 (0.92-1.19)	1.10 (1.04-1.17)	1.07 (1.03-1.11)	0.99 (0.97-1.01)
Use of proton-pump inhibitors	1.16 (1.10-1.22)	2.02 (1.86-2.19)	1.28 (1.15-1.44)	1.79 (1.70-1.89)	1.29 (1.24-1.33)	1.70 (1.67-1.73)
No. of physician visits in 2019						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-3	1.03 (1.00-1.07)	1.14 (1.05-1.25)	1.35 (1.22-1.49)	1.51 (1.39-1.63)	1.31 (1.26-1.35)	1.48 (1.43-1.52)
4-8	1.02 (0.97-1.07)	1.43 (1.29-1.58)	1.37 (1.23-1.52)	2.00 (1.85-2.17)	1.34 (1.30-1.39)	1.81 (1.76-1.86)
≥9	1.05 (0.99-1.12)	1.88 (1.68-2.12)	1.40 (1.24-1.57)	2.79 (2.57-3.02)	1.40 (1.35-1.45)	2.46 (2.39-2.53)
No. of hospitalizations in 2019						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1	1.05 (0.98-1.11)	1.47 (1.33-1.62)	0.83 (0.72-0.97)	1.15 (1.06-1.23)	1.05 (1.01-1.10)	1.55 (1.51-1.59)
≥2	0.99 (0.88-1.10)	2.38 (2.09-2.70)	0.93 (0.74-1.18)	1.76 (1.57-1.97)	1.13 (1.04-1.22)	2.59 (2.51-2.68)
<b>Incidence (hazard ratio)</b>						
Age						
<10	1.80 (1.59-2.03)	0.65 (0.42-1.01)	0.73 (0.52-1.01)	0.16 (0.09-0.28)	1.89 (1.72-2.08)	0.49 (0.43-0.57)
10-17	1.67 (1.45-1.92)	0.59 (0.34-1.04)	1.13 (0.81-1.58)	0.66 (0.45-0.97)	2.20 (1.98-2.44)	0.91 (0.80-1.03)
18-29	1.49 (1.32-1.68)	1.13 (0.80-1.60)	1.27 (0.96-1.66)	1.13 (0.87-1.48)	1.38 (1.25-1.51)	1.24 (1.13-1.35)
30-49	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
50-64	0.79 (0.69-0.91)	0.69 (0.48-1.00)	0.62 (0.45-0.85)	1.02 (0.79-1.33)	0.71 (0.64-0.79)	0.71 (0.64-0.79)
≥65	0.50 (0.41-0.61)	0.27 (0.14-0.50)	0.69 (0.49-0.99)	0.66 (0.47-0.93)	0.48 (0.42-0.54)	0.31 (0.27-0.36)
Female	1.01 (0.95-1.08)	1.02 (0.80-1.29)	0.94 (0.79-1.12)	1.23 (1.03-1.48)	0.92 (0.87-0.98)	0.97 (0.90-1.03)
Income quintile						
Q1 (lowest)	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Q2	0.35 (0.32-0.38)	0.77 (0.56-1.06)	0.51 (0.37-0.70)	0.58 (0.41-0.82)	0.44 (0.40-0.47)	0.76 (0.70-0.84)
Q3	0.31 (0.27-0.37)	0.73 (0.41-1.28)	0.98 (0.76-1.26)	0.86 (0.64-1.16)	0.34 (0.31-0.37)	0.56 (0.50-0.62)
Q4	0.33 (0.29-0.37)	1.26 (0.90-1.75)	0.70 (0.54-0.90)	0.92 (0.70-1.21)	0.33 (0.30-0.37)	0.59 (0.53-0.65)
Q5 (highest)	0.18 (0.16-0.20)	0.93 (0.66-1.30)	0.52 (0.39-0.70)	0.85 (0.64-1.13)	0.26 (0.23-0.29)	0.59 (0.53-0.65)
Unknown	0.10 (0.01-0.71)	No cases	0.81 (0.56-1.17)	0.91 (0.60-1.38)	0.66 (0.58-0.74)	0.50 (0.42-0.61)
In long-term care-second wave	0.63 (0.09-4.51)	3.88 (0.50-29.77)	18.72 (11.63-30.14)	No cases	12.39 (10.44-14.69)	4.45 (3.14-6.29)
In long-term care-third wave	No cases	No cases	3.49 (0.41-29.50)	No cases	1.38 (0.50-3.79)	0.28 (0.04-2.04)
Any chronic disease	1.25 (1.13-1.40)	1.03 (0.74-1.44)	0.98 (0.74-1.29)	1.16 (0.90-1.50)	1.34 (1.23-1.46)	1.27 (1.16-1.39)
Immunosuppressed	0.90 (0.73-1.12)	0.76 (0.42-1.38)	0.82 (0.51-1.32)	0.81 (0.52-1.27)	0.88 (0.77-1.01)	1.01 (0.87-1.17)
Use of ARBs/ACEIs <sup>d</sup>	1.21 (1.07-1.38)	1.23 (0.85-1.79)	1.36 (1.00-1.86)	1.08 (0.81-1.45)	1.25 (1.13-1.38)	0.98 (0.87-1.10)
Use of proton-pump inhibitors	1.14 (1.01-1.28)	1.42 (1.02-1.97)	1.38 (1.04-1.84)	1.18 (0.90-1.56)	1.33 (1.21-1.45)	1.14 (1.03-1.26)
No. of physician visits in 2019						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.



	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
1-3	0.95 (0.88-1.03)	0.93 (0.66-1.29)	0.96 (0.75-1.23)	1.18 (0.86-1.60)	1.00 (0.91-1.09)	1.24 (1.11-1.39)
4-8	0.81 (0.73-0.91)	1.79 (1.27-2.53)	0.84 (0.64-1.10)	1.63 (1.21-2.21)	0.97 (0.88-1.06)	1.39 (1.25-1.55)
≥9	0.78 (0.68-0.91)	1.70 (1.09-2.64)	0.83 (0.61-1.12)	1.70 (1.23-2.36)	0.96 (0.86-1.06)	1.58 (1.41-1.78)
No. of hospitalizations in 2019						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1	1.02 (0.89-1.17)	1.01 (0.66-1.55)	0.84 (0.55-1.28)	0.69 (0.44-1.10)	1.20 (1.07-1.34)	1.06 (0.92-1.22)
≥2	1.25 (0.99-1.58)	1.68 (0.93-3.05)	0.73 (0.35-1.51)	0.43 (0.14-1.34)	1.35 (1.13-1.62)	1.35 (1.05-1.73)

<sup>a</sup> Adjusted for age, gender, income quintile, long-term care status, chronic disease, ARB/ACEI use, proton-pump inhibitor use, immunosuppression, and number of physician visits and hospitalizations in 2019. <sup>b</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>c</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>d</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 11 Testing and incidence rates (per 1,000 person-years) and test positivity rate (95% confidence interval) according to certain socio-economic and clinical characteristics during the third wave<sup>a</sup> by region and reason for testing**

	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
<b>Testing rates</b>						
Total	388 (379-397)	120 (115-125)	24 (23-25)	99 (96-102)	54 (53-55)	139 (138-141)
<b>Age</b>						
<10	458 (436-480)	117 (106-128)	32 (29-36)	67 (62-73)	88 (84-91)	84 (81-87)
10-17	531 (503-560)	78 (68-89)	30 (26-35)	43 (38-48)	96 (92-100)	73 (70-76)
18-29	409 (388-432)	128 (117-141)	27 (24-31)	98 (91-105)	62 (60-65)	132 (129-136)
30-49	371 (354-390)	121 (111-131)	25 (23-28)	108 (103-114)	55 (54-57)	134 (132-137)
50-64	269 (250-289)	132 (119-146)	14 (12-16)	114 (108-121)	35 (34-37)	141 (138-144)
≥65	148 (129-169)	175 (154-198)	16 (14-20)	156 (147-165)	23 (22-24)	232 (227-236)
<b>Income quintile</b>						
Q1 (lowest)	875 (849-902)	156 (145-168)	29 (26-33)	90 (84-97)	89 (87-92)	172 (168-175)
Q2	323 (309-338)	131 (122-141)	29 (26-33)	100 (93-107)	53 (51-55)	136 (133-140)
Q3	210 (185-238)	95 (79-115)	16 (14-19)	99 (93-106)	45 (44-47)	136 (133-139)
Q4	149 (136-164)	117 (105-129)	19 (17-22)	87 (82-92)	42 (40-43)	131 (128-134)
Q5 (highest)	133 (122-145)	71 (63-80)	24 (21-27)	116 (110-123)	41 (40-43)	120 (117-123)
Unknown	83 (27-259)	111 (42-296)	36 (30-43)	110 (99-121)	63 (59-68)	145 (138-153)
In long-term care	41 (6-291)	82 (20-327)	227 (169-306)	74 (44-125)	193 (170-218)	225 (200-253)
<b>COVID-19 vaccination status</b>						
Unvaccinated	406 (396-417)	115 (109-120)	22 (21-24)	88 (85-90)	55 (54-56)	128 (126-129)
≥14 days after first dose	327 (305-352)	140 (126-156)	24 (20-29)	177 (166-190)	47 (44-49)	195 (191-200)
≥7 days after second dose	297 (270-327)	148 (129-170)	75 (62-90)	220 (198-245)	65 (60-69)	218 (210-227)
<b>Incidence rates</b>						
Total	68.4 (64.7-72.3)	3.8 (3.0-4.8)	2.5 (2.1-2.9)	2.6 (2.2-3.1)	6.2 (5.9-6.5)	6.3 (6.0-6.6)
<b>Age</b>						
<10	100.6 (90.8-111.4)	4.6 (2.9-7.4)	2.9 (2.0-4.3)	0.5 (0.2-1.3)	12.4 (11.2-13.6)	4.9 (4.2-5.8)
10-17	95.7 (84.5-108.5)	1.9 (0.8-4.7)	3.2 (2.0-4.9)	2.5 (1.5-4.1)	11.4 (10.2-12.8)	6.8 (5.8-7.8)
18-29	73.7 (65.1-83.5)	4.5 (2.7-7.4)	3.0 (2.0-4.4)	3.3 (2.3-4.8)	7.8 (7.0-8.6)	10.1 (9.2-11.0)
30-49	55.5 (49.0-63.0)	3.6 (2.2-5.9)	3.0 (2.2-4.1)	2.9 (2.1-4.0)	5.0 (4.5-5.6)	8.1 (7.4-8.7)
50-64	38.8 (32.0-46.9)	4.4 (2.5-7.7)	1.3 (0.7-2.3)	3.6 (2.6-5.1)	3.9 (3.4-4.4)	5.0 (4.5-5.7)
≥65	18.5 (12.6-27.1)	2.1 (0.7-6.6)	1.1 (0.6-2.3)	2.4 (1.5-3.9)	1.9 (1.5-2.3)	2.0 (1.7-2.5)
<b>Income quintile</b>						
Q1 (lowest)	182.5 (170.8-195.1)	4.6 (3.0-7.0)	3.3 (2.3-4.8)	3.0 (2.0-4.4)	12.4 (11.4-13.4)	9.5 (8.7-10.4)
Q2	47.6 (42.2-53.6)	2.7 (1.6-4.4)	3.0 (2.0-4.4)	2.2 (1.4-3.5)	6.0 (5.3-6.6)	7.0 (6.3-7.7)
Q3	26.6 (18.7-37.9)	2.6 (0.8-8.0)	1.8 (1.1-2.9)	2.2 (1.4-3.4)	5.2 (4.7-5.8)	5.3 (4.7-5.9)
Q4	16.1 (12.2-21.3)	5.8 (3.7-9.2)	2.1 (1.4-3.0)	2.8 (2.0-3.9)	4.3 (3.8-4.9)	4.8 (4.3-5.5)
Q5 (highest)	13.4 (10.2-17.6)	3.1 (1.8-5.5)	2.1 (1.4-3.1)	2.6 (1.8-3.7)	3.2 (2.7-3.7)	4.9 (4.4-5.6)
Unknown	27.8 (3.9-197.3)	0.0 (0.0-105.5)	3.7 (2.2-6.4)	2.9 (1.5-5.3)	6.4 (5.0-8.1)	6.4 (5.0-8.1)
In long-term care	0.0 (0.0-151.7)	0.0 (0.0-151.7)	5.3 (0.7-37.5)	0.0 (0.0-19.8)	3.2 (1.2-8.5)	0.8 (0.1-5.7)
<b>COVID-19 vaccination status</b>						
Unvaccinated	81.0 (76.6-85.8)	4.4 (3.4-5.6)	2.6 (2.1-3.1)	2.8 (2.3-3.3)	6.8 (6.5-7.2)	6.9 (6.5-7.2)
≥14 days after first dose	24.9 (19.3-32.2)	1.3 (0.4-4.0)	1.7 (0.9-3.4)	1.7 (0.9-3.4)	3.2 (2.6-3.8)	4.2 (3.5-5.0)
≥7 days after second dose	7.1 (3.8-13.3)	1.4 (0.4-5.7)	1.3 (0.3-5.4)	0.7 (0.1-4.8)	1.3 (0.8-2.2)	0.9 (0.5-1.7)
<b>Test positivity</b>						
Total	17.6 (16.7-18.6)	3.1 (2.5-4.0)	10.3 (8.7-12.2)	2.6 (2.2-3.1)	11.4 (10.9-11.9)	4.5 (4.3-4.7)
<b>Age</b>						
<10	22.0 (19.8-24.3)	4.0 (2.5-6.4)	9.1 (6.1-13.5)	0.7 (0.3-1.9)	14.1 (12.8-15.6)	5.9 (5.0-6.9)
10-17	18.0 (15.9-20.4)	2.5 (1.0-6.0)	10.5 (6.8-16.3)	5.9 (3.6-9.6)	11.9 (10.6-13.3)	9.3 (8.0-10.8)
18-29	18.0 (15.9-20.4)	3.5 (2.1-5.8)	11.1 (7.5-16.2)	3.4 (2.4-4.9)	12.5 (11.2-13.9)	7.6 (6.9-8.4)
30-49	15.0 (13.2-17.0)	3.0 (1.8-4.9)	11.9 (8.8-16.3)	2.7 (2.0-3.7)	9.1 (8.2-10.0)	6.0 (5.5-6.5)
50-64	14.4 (11.9-17.4)	3.3 (1.9-5.9)	9.5 (5.4-16.8)	3.2 (2.3-4.5)	11.0 (9.6-12.6)	3.6 (3.2-4.0)
≥65	12.5 (8.5-18.4)	1.2 (0.4-3.8)	7.0 (3.5-13.9)	1.5 (1.0-2.5)	8.2 (6.6-10.1)	0.9 (0.7-1.1)
<b>Income quintile</b>						
Q1 (lowest)	20.9 (19.5-22.3)	3.0 (2.0-4.5)	11.4 (7.9-16.6)	3.3 (2.2-4.9)	13.9 (12.8-15.0)	5.5 (5.1-6.0)
Q2	14.7 (13.1-16.6)	2.0 (1.2-3.4)	10.1 (6.8-15.0)	2.2 (1.4-3.5)	11.2 (10.1-12.5)	5.1 (4.6-5.7)

	Northern		Southern		Rest of Manitoba	
	Contact/outbreak	Unknown	Contact/outbreak	Unknown	Contact/outbreak	Unknown
Q3	12.7 (8.9-18.1)	2.7 (0.9-8.4)	10.7 (6.6-17.5)	2.2 (1.4-3.5)	11.5 (10.3-12.9)	3.9 (3.4-4.3)
Q4	10.8 (8.2-14.2)	5.0 (3.1-7.9)	10.7 (7.4-15.5)	3.2 (2.3-4.4)	10.3 (9.0-11.8)	3.7 (3.3-4.2)
Q5 (highest)	10.1 (7.7-13.3)	4.4 (2.5-7.7)	8.6 (5.7-12.9)	2.2 (1.6-3.2)	7.6 (6.6-8.9)	4.1 (3.6-4.6)
Unknown	33.3 (4.7-236.6)	0.0 (0.0-92.2)	10.5 (6.1-18.1)	2.6 (1.4-4.9)	10.1 (7.9-12.8)	4.4 (3.4-5.6)
In long-term care	0.0 (0.0-368.9)	0.0 (0.0-184.4)	2.3 (0.3-16.5)	0.0 (0.0-30.7)	1.7 (0.6-4.4)	0.4 (0.0-2.5)
COVID-19 vaccination status						
Unvaccinated	19.9 (18.8-21.1)	3.8 (3.0-4.9)	11.5 (9.6-13.7)	3.1 (2.6-3.7)	12.5 (11.9-13.1)	5.4 (5.1-5.6)
≥14 days after first dose	7.6 (5.9-9.8)	0.9 (0.3-2.9)	7.1 (3.6-14.3)	1.0 (0.5-1.9)	6.8 (5.6-8.2)	2.1 (1.8-2.5)
≥7 days after second dose	2.4 (1.3-4.5)	1.0 (0.2-3.8)	1.8 (0.4-7.1)	0.3 (0.0-2.2)	2.1 (1.3-3.4)	0.4 (0.2-0.8)

<sup>a</sup> The third wave is from March 1, 2021 to June 1, 2021.

**Supplementary Table 12 Secondary attack rates (%) of COVID-19 according to certain socio-economic characteristics of cases and contacts by pandemic stage**

	Case characteristics				Contact characteristics			
	First wave <sup>a</sup>	Second wave <sup>b</sup>	Third wave <sup>c</sup>	Overall	First wave <sup>a</sup>	Second wave <sup>b</sup>	Third wave <sup>c</sup>	Overall
Overall	9.7 (8.0-11.6)	15.9 (15.6-16.1)	15.8 (15.6-15.9)	15.8 (15.6-15.9)	9.7 (8.0-11.6)	15.9 (15.6-16.1)	15.8 (15.6-15.9)	15.8 (15.6-15.9)
<b>Age</b>								
<10	0.0 (0.0-13.7)	8.4 (7.9-8.9)	8.5 (8.1-9.0)	8.5 (8.1-8.8)	4.3 (1.2-11.0)	11.8 (11.3-12.2)	11.9 (11.4-12.3)	11.8 (11.5-12.1)
10-17	0.0 (0.0-92.2)	10.1 (9.6-10.6)	10.1 (9.6-10.6)	10.1 (9.7-10.5)	6.0 (1.6-15.3)	13.3 (12.8-13.9)	13.4 (12.8-14.0)	13.3 (13.0-13.7)
18-29	4.4 (2.7-6.8)	15.9 (15.4-16.4)	17.5 (16.8-18.1)	16.4 (16.1-16.8)	10.6 (6.9-15.6)	17.5 (16.9-18.0)	18.2 (17.6-19.0)	17.7 (17.3-18.2)
30-49	11.2 (8.0-15.3)	18.1 (17.6-18.6)	20.8 (20.2-21.4)	19.1 (18.7-19.5)	9.3 (6.5-12.9)	16.7 (16.3-17.2)	18.7 (18.1-19.4)	17.5 (17.1-17.9)
50-64	19.0 (13.7-25.7)	19.6 (18.9-20.3)	20.3 (19.4-21.2)	19.8 (19.3-20.4)	12.8 (8.9-17.9)	18.1 (17.5-18.8)	17.6 (16.8-18.5)	17.9 (17.4-18.4)
≥65	10.1 (5.5-16.9)	21.4 (20.3-22.6)	22.6 (20.9-24.4)	21.6 (20.7-22.5)	8.5 (4.7-14.3)	22.0 (20.8-23.2)	19.7 (18.2-21.2)	21.0 (20.0-21.9)
<b>Gender</b>								
Male	8.4 (6.3-11.0)	16.5 (16.1-16.8)	16.1 (15.7-16.5)	16.3 (16.0-16.5)	11.1 (8.5-14.3)	15.7 (15.4-16.0)	15.8 (15.4-16.2)	15.7 (15.5-16.0)
Female	11.1 (8.5-14.2)	15.1 (14.8-15.4)	15.7 (15.3-16.0)	15.3 (15.1-15.6)	8.5 (6.4-11.0)	15.8 (15.5-16.2)	15.9 (15.5-16.3)	15.8 (15.6-16.1)
<b>Regional health authority of residence</b>								
Interlake-Eastern	3.6 (1.6-7.2)	14.9 (14.1-15.8)	12.8 (11.8-13.8)	14.0 (13.3-14.6)	11.7 (4.7-24.0)	14.4 (13.6-15.3)	12.3 (11.3-13.3)	13.6 (12.9-14.2)
Northern	0.0 (0.0-92.2)	19.4 (18.7-20.1)	16.4 (15.5-17.3)	18.5 (17.9-19.0)	40.0 (4.8-144.5)	19.7 (19.1-20.4)	17.0 (16.1-18.0)	18.9 (18.4-19.5)
Southern	15.2 (7.8-26.5)	14.4 (13.8-15.0)	13.6 (12.8-14.5)	14.2 (13.7-14.6)	13.4 (6.7-24.0)	13.9 (13.3-14.5)	13.8 (13.0-14.7)	13.9 (13.4-14.4)
Prairie Mountain	9.5 (1.2-34.4)	13.4 (12.5-14.3)	15.7 (14.7-16.7)	14.5 (13.8-15.2)	14.3 (1.7-51.6)	13.8 (12.9-14.8)	15.6 (14.6-16.6)	14.7 (14.0-15.4)
Winnipeg	10.8 (8.7-13.2)	15.5 (15.2-15.8)	16.4 (16.1-16.7)	15.9 (15.6-16.1)	9.0 (7.3-11.1)	15.5 (15.2-15.8)	16.4 (16.1-16.7)	15.9 (15.7-16.1)
Public Trustee / In CFS care	0.0 (0.0-46.1)	16.1 (13.3-19.3)	15.9 (12.7-19.6)	15.9 (13.8-18.3)	No cases	12.3 (9.5-15.6)	8.1 (5.7-11.1)	10.3 (8.5-12.5)
<b>Income quintile</b>								
Q1 (lowest)	16.7 (9.1-28.0)	17.9 (17.4-18.3)	16.6 (16.0-17.1)	17.3 (17.0-17.7)	16.7 (9.1-28.0)	17.9 (17.4-18.3)	16.6 (16.0-17.1)	17.3 (17.0-17.7)
Q2	2.8 (1.4-5.0)	15.3 (14.8-15.8)	16.2 (15.6-16.8)	15.6 (15.2-16.0)	2.8 (1.4-5.0)	15.3 (14.8-15.8)	16.2 (15.6-16.8)	15.6 (15.2-16.0)
Q3	24.1 (15.9-35.1)	15.1 (14.5-15.7)	15.7 (15.0-16.4)	15.4 (15.0-15.8)	24.1 (15.9-35.1)	15.1 (14.5-15.7)	15.7 (15.0-16.4)	15.4 (15.0-15.8)
Q4	11.5 (7.6-16.6)	15.5 (14.9-16.0)	15.6 (15.0-16.3)	15.5 (15.1-15.9)	11.5 (7.6-16.6)	15.5 (14.9-16.0)	15.6 (15.0-16.3)	15.5 (15.1-15.9)
Q5 (highest)	11.2 (7.9-15.5)	14.2 (13.6-14.7)	14.3 (13.6-15.0)	14.2 (13.8-14.6)	11.2 (7.9-15.5)	14.2 (13.6-14.7)	14.3 (13.6-15.0)	14.2 (13.8-14.6)
Unknown	0.0 (0.0-7.8)	12.9 (11.8-14.1)	14.9 (13.6-16.3)	13.7 (12.8-14.6)	0.0 (0.0-7.8)	12.9 (11.8-14.1)	14.9 (13.6-16.3)	13.7 (12.8-14.6)

<sup>a</sup> The first wave is from March 8 to April 11, 2020. <sup>b</sup> The second period is from October 1, 2020 to Feb 28, 2021. <sup>c</sup> The third wave is from March 1, 2021 to June 1, 2021.

**Supplementary Table 13 Adjusted<sup>a</sup> odds ratios (95% confidence interval) of the association between being linked to a super-spreading event and certain socio-economic and clinical characteristics by definition used for R<sub>t</sub>**

	<b>≥ 4 secondary cases ≥ 6 secondary cases</b>	
<b>Age</b>		
<10	1.44 (1.25-1.66)	1.53 (1.20-1.95)
10-17	1.60 (1.39-1.85)	1.69 (1.32-2.15)
18-29	1.01 (0.89-1.15)	1.19 (0.96-1.47)
30-49	Ref.	Ref.
50-64	0.77 (0.66-0.90)	0.84 (0.64-1.09)
≥65	0.38 (0.29-0.49)	0.29 (0.17-0.49)
Female	1.01 (0.92-1.10)	1.02 (0.88-1.19)
<b>Income quintile</b>		
Q1 (lowest)	Ref.	Ref.
Q2	0.75 (0.67-0.85)	0.78 (0.64-0.95)
Q3	0.62 (0.54-0.72)	0.52 (0.40-0.68)
Q4	0.71 (0.62-0.81)	0.60 (0.48-0.76)
Q5 (highest)	0.64 (0.55-0.74)	0.64 (0.50-0.81)
Unknown	0.63 (0.46-0.88)	0.37 (0.18-0.75)
<b>Regional health authority of residence</b>		
Interlake-Eastern	0.89 (0.73-1.10)	1.17 (0.84-1.63)
Northern	2.48 (2.21-2.78)	3.17 (2.63-3.81)
Southern	0.49 (0.40-0.60)	0.61 (0.43-0.86)
Prairie Mountain	1.04 (0.87-1.24)	1.41 (1.06-1.87)
Winnipeg	Ref.	Ref.
Public Trustee / In CFS care	0.91 (0.43-1.91)	1.71 (0.45-6.53)
In long-term care	1.45 (0.57-3.68)	2.62 (0.59-11.58)
Any chronic disease	1.27 (1.09-1.48)	1.37 (1.07-1.76)
Immunosuppressed	0.79 (0.38-1.62)	No cases
Use of ARCs/ACEIs <sup>b</sup>	1.43 (1.21-1.69)	1.66 (1.26-2.18)
Use of proton-pump inhibitor	0.94 (0.79-1.11)	0.88 (0.66-1.17)
<b>No. of physician visits in 2019</b>		
0	Ref.	Ref.
1-3	0.89 (0.78-1.02)	1.03 (0.83-1.29)
4-8	0.87 (0.75-1.00)	0.84 (0.66-1.08)
≥9	1.00 (0.85-1.17)	1.10 (0.84-1.45)
<b>No. of hospitalizations in 2019</b>		
0	Ref.	Ref.
1	1.22 (1.02-1.46)	1.28 (0.97-1.71)
≥2	0.89 (0.62-1.29)	0.56 (0.27-1.15)

<sup>a</sup> Adjusted for age, gender, regional health authority of residence, long-term care status, chronic disease, immunosuppression, ARB/ACEI use, proton-pump inhibitor use, and number of physician visits and hospitalizations in 2019. <sup>b</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 14 Weekly testing rates for SARS-CoV-2 per 1,000 person-years (95% confidence interval) according to gender**

<b>Week</b>	<b>Overall</b>	<b>Male</b>	<b>Female</b>
March 8-14, 2020	111 (107-115)	93 (88-99)	129 (123-135)
March 15-21, 2020	143 (138-147)	123 (117-129)	163 (156-170)
March 22-28, 2020	119 (115-124)	95 (90-101)	143 (137-150)
March 29-April 4, 2020	161 (156-166)	100 (95-106)	221 (213-229)
April 5-11, 2020	111 (107-115)	73 (68-77)	148 (142-155)
April 12-18, 2020	93 (90-97)	74 (69-79)	112 (107-118)
April 19-25, 2020	111 (107-115)	97 (92-102)	125 (119-131)
April 26-May 2, 2020	145 (140-149)	123 (117-129)	166 (159-173)
May 3-9, 2020	129 (124-133)	107 (101-112)	151 (144-157)
May 10-16, 2020	149 (144-154)	126 (120-132)	171 (165-179)
May 17-23, 2020	155 (150-160)	142 (136-149)	168 (161-175)
May 24-30, 2020	198 (193-203)	176 (169-184)	219 (211-227)
May 31-June 6, 2020	174 (169-179)	157 (150-163)	190 (183-198)
June 7-13, 2020	158 (153-163)	144 (137-150)	172 (165-179)
June 14-20, 2020	142 (138-147)	127 (121-133)	157 (151-164)
June 21-27, 2020	160 (156-165)	145 (138-151)	176 (169-184)
June 28-July 4, 2020	133 (129-138)	118 (113-124)	148 (142-155)
July 5-11, 2020	162 (157-167)	146 (140-153)	177 (170-184)
July 12-18, 2020	214 (209-220)	193 (185-200)	235 (227-244)
July 19-25, 2020	293 (286-299)	259 (250-268)	326 (317-336)
July 26-August 1, 2020	326 (320-333)	290 (281-300)	362 (352-372)
August 2-8, 2020	366 (359-374)	323 (313-332)	409 (399-420)
August 9-15, 2020	407 (400-415)	361 (351-371)	453 (442-464)
August 16-22, 2020	387 (379-394)	346 (336-356)	427 (417-439)
August 23-29, 2020	357 (350-364)	327 (317-337)	387 (377-398)
August 30-September 5, 2020	354 (346-361)	312 (302-321)	395 (385-406)
September 6-12, 2020	313 (306-320)	276 (267-285)	349 (339-359)
September 13-19, 2020	416 (408-424)	361 (351-372)	470 (459-482)
September 20-26, 2020	476 (468-485)	422 (411-433)	530 (518-543)
September 27-October 3, 2020	550 (541-559)	489 (478-501)	610 (597-623)
October 4-10, 2020	536 (527-545)	490 (478-502)	581 (569-594)
October 11-17, 2020	546 (537-555)	488 (476-500)	603 (590-616)
October 18-24, 2020	643 (634-653)	588 (575-602)	698 (684-712)
October 25-31, 2020	799 (789-810)	733 (719-748)	865 (850-881)
November 1-7, 2020	887 (876-899)	829 (813-844)	945 (929-962)
November 8-14, 2020	727 (717-737)	668 (655-682)	785 (770-800)
November 15-21, 2020	760 (749-770)	685 (671-699)	834 (819-850)
November 22-28, 2020	672 (663-682)	617 (604-630)	727 (713-742)
November 29-December 5, 2020	596 (587-606)	546 (534-559)	646 (632-660)
December 6-12, 2020	561 (552-570)	508 (496-520)	614 (601-628)
December 13-19, 2020	520 (511-529)	462 (450-474)	577 (565-591)
December 20-26, 2020	357 (350-364)	332 (322-342)	382 (371-392)
December 27, 2020-January 2, 2021	352 (345-359)	317 (307-327)	387 (377-398)
January 3-9, 2021	438 (431-446)	398 (387-409)	479 (467-491)
January 10-16, 2021	435 (427-443)	391 (381-402)	479 (467-491)
January 17-23, 2021	423 (416-431)	391 (381-402)	455 (444-467)
January 24-30, 2021	411 (404-419)	371 (361-382)	451 (440-463)
January 31-February 6, 2021	390 (383-398)	360 (350-371)	420 (409-431)
February 7-13, 2021	378 (371-386)	343 (333-353)	413 (403-425)
February 14-20, 2021	403 (395-411)	366 (356-377)	440 (429-451)
February 21-27, 2021	395 (387-402)	369 (359-380)	420 (409-431)
February 28-March 6, 2021	403 (396-411)	371 (361-382)	435 (424-446)
March 7-13, 2021	422 (414-430)	385 (374-396)	459 (447-470)
March 14-20, 2021	454 (446-462)	417 (406-428)	491 (479-503)
March 21-27, 2021	481 (473-490)	439 (428-450)	524 (512-536)
March 28-April 3, 2021	396 (388-404)	364 (354-374)	428 (417-439)

<b>Week</b>	<b>Overall</b>	<b>Male</b>	<b>Female</b>
April 4-10, 2021	526 (517-535)	484 (473-496)	568 (555-580)
April 11-17, 2021	643 (634-653)	593 (580-607)	693 (679-708)
April 18-24, 2021	769 (759-780)	701 (687-716)	836 (821-852)
April 25-May 1, 2021	875 (864-887)	808 (793-824)	942 (926-959)
May 2-8, 2021	888 (876-899)	830 (814-845)	945 (929-962)
May 9-15, 2021	889 (878-901)	835 (819-850)	943 (927-960)
May 16-22, 2021	799 (788-809)	758 (743-773)	839 (823-855)
May 23-29, 2021	655 (645-665)	593 (580-606)	716 (701-730)

**Supplementary Table 15 Weekly testing rates for SARS-CoV-2 per 1,000 person-years (95% confidence interval) according to income quintile**

Week	Overall	Q1 (lowest)	Q2	Q3	Q4	Q5 (highest)
March 8-14, 2020	111 (107-115)	84 (76-92)	88 (80-96)	113 (104-122)	121 (112-131)	148 (138-159)
March 15-21, 2020	143 (138-147)	107 (98-116)	124 (115-134)	133 (124-143)	160 (150-171)	190 (178-202)
March 22-28, 2020	119 (115-124)	88 (81-97)	113 (104-122)	115 (107-125)	124 (115-134)	151 (140-162)
March 29-April 4, 2020	161 (156-166)	156 (146-168)	157 (147-168)	162 (151-173)	160 (150-171)	154 (144-166)
April 5-11, 2020	111 (107-115)	119 (110-129)	112 (104-122)	109 (101-119)	99 (91-108)	100 (91-109)
April 12-18, 2020	93 (90-97)	97 (89-106)	97 (89-106)	85 (78-94)	91 (83-100)	84 (76-92)
April 19-25, 2020	111 (107-115)	123 (113-133)	124 (115-134)	103 (95-112)	101 (93-110)	98 (90-107)
April 26-May 2, 2020	145 (140-149)	153 (143-165)	140 (130-150)	140 (130-151)	142 (132-152)	152 (142-163)
May 3-9, 2020	129 (124-133)	147 (137-158)	131 (121-141)	127 (117-137)	120 (111-130)	116 (107-126)
May 10-16, 2020	149 (144-154)	163 (153-175)	152 (142-163)	151 (141-162)	146 (136-157)	133 (124-144)
May 17-23, 2020	155 (150-160)	169 (158-181)	158 (148-169)	148 (138-159)	153 (143-164)	141 (131-152)
May 24-30, 2020	198 (193-203)	219 (206-232)	199 (187-212)	188 (177-200)	200 (189-213)	184 (173-196)
May 31-June 6, 2020	174 (169-179)	193 (181-206)	175 (164-187)	172 (161-184)	161 (150-172)	164 (153-175)
June 7-13, 2020	158 (153-163)	174 (163-186)	167 (156-178)	155 (145-167)	144 (134-155)	146 (136-157)
June 14-20, 2020	142 (138-147)	173 (162-185)	140 (130-151)	138 (128-148)	137 (127-147)	118 (109-128)
June 21-27, 2020	160 (156-165)	173 (162-185)	154 (143-165)	161 (150-172)	163 (152-174)	148 (138-159)
June 28-July 4, 2020	133 (129-138)	148 (138-159)	127 (118-137)	126 (116-136)	139 (129-149)	122 (113-132)
July 5-11, 2020	162 (157-167)	165 (154-176)	161 (150-172)	161 (151-172)	166 (156-178)	145 (135-156)
July 12-18, 2020	214 (209-220)	196 (184-208)	206 (194-219)	219 (207-233)	219 (207-233)	216 (204-229)
July 19-25, 2020	293 (286-299)	271 (257-286)	297 (282-312)	317 (302-332)	285 (271-300)	290 (276-305)
July 26-August 1, 2020	326 (320-333)	285 (271-300)	344 (328-360)	335 (320-351)	333 (318-349)	326 (311-342)
August 2-8, 2020	366 (359-374)	306 (291-321)	377 (360-394)	373 (357-390)	399 (382-416)	382 (366-400)
August 9-15, 2020	407 (400-415)	373 (356-390)	414 (397-432)	417 (400-435)	421 (404-439)	412 (395-430)
August 16-22, 2020	387 (379-394)	341 (325-357)	348 (332-364)	409 (392-427)	418 (400-436)	419 (401-437)
August 23-29, 2020	357 (350-364)	339 (323-355)	353 (338-370)	369 (352-385)	378 (361-395)	348 (333-365)
August 30-September 5, 2020	354 (346-361)	339 (324-356)	349 (333-365)	342 (327-359)	354 (338-370)	353 (337-370)
September 6-12, 2020	313 (306-320)	312 (297-327)	321 (306-337)	291 (277-306)	313 (298-329)	322 (307-338)
September 13-19, 2020	416 (408-424)	410 (393-428)	403 (386-421)	389 (372-406)	399 (382-416)	475 (457-495)
September 20-26, 2020	476 (468-485)	408 (391-426)	444 (427-463)	486 (467-505)	462 (444-481)	563 (543-584)
September 27-October 3, 2020	550 (541-559)	501 (482-521)	524 (505-544)	546 (526-566)	553 (533-573)	603 (582-624)
October 4-10, 2020	536 (527-545)	561 (541-582)	489 (471-509)	530 (510-550)	531 (511-551)	551 (531-571)
October 11-17, 2020	546 (537-555)	553 (533-574)	531 (512-552)	528 (508-548)	537 (517-557)	573 (552-594)
October 18-24, 2020	643 (634-653)	647 (626-670)	607 (587-629)	676 (654-699)	635 (614-657)	627 (606-649)
October 25-31, 2020	799 (789-810)	821 (796-846)	771 (747-795)	815 (790-840)	761 (737-785)	812 (788-837)
November 1-7, 2020	887 (876-899)	900 (875-927)	834 (809-859)	889 (864-915)	909 (883-935)	886 (861-912)
November 8-14, 2020	727 (717-737)	711 (688-734)	736 (713-759)	715 (692-738)	741 (718-765)	675 (653-698)
November 15-21, 2020	760 (749-770)	768 (744-793)	777 (753-801)	746 (723-770)	753 (729-777)	674 (652-697)
November 22-28, 2020	672 (663-682)	781 (757-805)	690 (667-713)	630 (608-652)	647 (625-669)	576 (555-597)
November 29-December 5, 2020	596 (587-606)	734 (711-758)	624 (602-645)	550 (530-571)	542 (522-563)	486 (467-505)
December 6-12, 2020	561 (552-570)	752 (728-776)	576 (556-597)	496 (477-515)	484 (465-503)	466 (448-486)
December 13-19, 2020	520 (511-529)	680 (658-704)	540 (520-560)	425 (407-443)	459 (441-478)	467 (449-487)
December 20-26, 2020	357 (350-364)	475 (456-495)	364 (348-381)	293 (279-309)	313 (298-329)	319 (304-335)
December 27, 2020-January 2, 2021	352 (345-359)	446 (428-465)	355 (339-371)	334 (319-350)	313 (298-329)	285 (270-300)
January 3-9, 2021	438 (431-446)	610 (589-632)	419 (402-437)	362 (346-379)	412 (395-430)	360 (343-376)
January 10-16, 2021	435 (427-443)	602 (581-624)	480 (461-499)	342 (327-359)	367 (350-384)	370 (354-388)
January 17-23, 2021	423 (416-431)	630 (608-652)	434 (417-453)	338 (322-354)	337 (322-353)	382 (365-399)
January 24-30, 2021	411 (404-419)	570 (549-591)	429 (412-447)	352 (337-369)	351 (335-367)	355 (339-372)
January 31-February 6, 2021	390 (383-398)	476 (457-495)	414 (397-432)	351 (335-368)	341 (325-357)	358 (342-375)
February 7-13, 2021	378 (371-386)	527 (507-548)	354 (338-370)	318 (303-334)	318 (303-334)	357 (341-374)
February 14-20, 2021	403 (395-411)	538 (518-559)	373 (357-390)	356 (340-373)	356 (340-373)	366 (350-383)
February 21-27, 2021	395 (387-402)	489 (470-509)	397 (380-414)	340 (324-356)	355 (339-372)	383 (366-400)
February 28-March 6, 2021	403 (396-411)	516 (497-537)	403 (386-421)	363 (346-379)	343 (327-359)	389 (372-406)
March 7-13, 2021	422 (414-430)	580 (559-602)	419 (401-437)	375 (358-392)	371 (355-388)	364 (348-381)
March 14-20, 2021	454 (446-462)	623 (602-646)	438 (420-457)	406 (389-424)	424 (406-442)	384 (368-402)
March 21-27, 2021	481 (473-490)	592 (571-614)	477 (458-496)	412 (395-430)	445 (427-464)	459 (441-478)
March 28-April 3, 2021	396 (388-404)	525 (505-546)	389 (372-406)	356 (340-373)	367 (351-384)	341 (325-357)



<b>Week</b>	<b>Overall</b>	<b>Q1 (lowest)</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5 (highest)</b>
April 4-10, 2021	526 (517-535)	593 (572-615)	559 (539-580)	464 (446-483)	518 (498-538)	497 (478-516)
April 11-17, 2021	643 (634-653)	725 (701-749)	658 (636-681)	631 (610-653)	577 (557-599)	635 (614-658)
April 18-24, 2021	769 (759-780)	816 (791-842)	786 (763-811)	746 (723-770)	722 (699-745)	781 (757-806)
April 25-May 1, 2021	875 (864-887)	919 (893-947)	902 (876-928)	811 (787-837)	829 (804-854)	915 (889-942)
May 2-8, 2021	888 (876-899)	1,024 (996-1,053)	976 (950-1,004)	853 (828-879)	789 (765-814)	786 (762-811)
May 9-15, 2021	889 (878-901)	994 (966-1,022)	969 (942-996)	851 (826-877)	816 (792-842)	782 (758-806)
May 16-22, 2021	799 (788-809)	973 (946-1,001)	867 (842-893)	743 (719-767)	732 (709-756)	675 (652-698)
May 23-29, 2021	655 (645-665)	800 (775-825)	678 (656-701)	622 (600-644)	610 (589-632)	552 (532-572)

**Supplementary Table 16 Weekly incidence rates of COVID-19 per 1,000 person-years (95% confidence interval) according to gender**

<b>Week</b>	<b>Overall</b>	<b>Male</b>	<b>Female</b>
March 8-14, 2020	0.6 (0.3-0.9)	0.5 (0.3-1.1)	0.6 (0.3-1.2)
March 15-21, 2020	1.5 (1.1-2.1)	1.5 (1.0-2.3)	1.6 (1.0-2.4)
March 22-28, 2020	3.9 (3.2-4.7)	3.4 (2.5-4.6)	4.3 (3.3-5.6)
March 29-April 4, 2020	1.9 (1.5-2.5)	2.2 (1.5-3.2)	1.6 (1.1-2.5)
April 5-11, 2020	0.8 (0.5-1.2)	0.9 (0.5-1.6)	0.7 (0.3-1.3)
April 12-18, 2020	0.5 (0.3-0.8)	0.3 (0.1-0.8)	0.7 (0.3-1.3)
April 19-25, 2020	0.6 (0.3-0.9)	0.5 (0.3-1.1)	0.6 (0.3-1.2)
April 26-May 2, 2020	0.3 (0.2-0.6)	0.4 (0.2-0.9)	0.2 (0.1-0.7)
May 3-9, 2020	0.2 (0.1-0.5)	0.2 (0.1-0.7)	0.2 (0.1-0.7)
May 10-16, 2020	0.0 (0.0-0.3)	0.1 (0.0-0.5)	0.0 (0.0-0.3)
May 17-23, 2020	0.1 (0.0-0.3)	0.1 (0.0-0.5)	0.1 (0.0-0.5)
May 24-30, 2020	0.2 (0.1-0.5)	0.5 (0.2-1.0)	0.0 (0.0-0.3)
May 31-June 6, 2020	0.1 (0.0-0.3)	0.2 (0.0-0.6)	0.0 (0.0-0.3)
June 7-13, 2020	0.2 (0.1-0.5)	0.5 (0.2-1.0)	0.0 (0.0-0.3)
June 14-20, 2020	0.3 (0.1-0.6)	0.3 (0.1-0.8)	0.2 (0.1-0.7)
June 21-27, 2020	0.3 (0.2-0.6)	0.5 (0.2-1.0)	0.2 (0.1-0.7)
June 28-July 4, 2020	0.0 (0.0-0.2)	0.0 (0.0-0.3)	0.0 (0.0-0.3)
July 5-11, 2020	0.1 (0.1-0.4)	0.2 (0.0-0.6)	0.1 (0.0-0.6)
July 12-18, 2020	1.6 (1.2-2.2)	1.1 (0.7-1.9)	2.2 (1.5-3.1)
July 19-25, 2020	0.9 (0.6-1.3)	1.1 (0.6-1.8)	0.7 (0.4-1.4)
July 26-August 1, 2020	1.4 (1.0-1.9)	1.3 (0.8-2.1)	1.5 (1.0-2.3)
August 2-8, 2020	4.5 (3.7-5.3)	5.1 (4.0-6.5)	3.8 (2.9-5.0)
August 9-15, 2020	7.0 (6.0-8.0)	7.4 (6.0-9.0)	6.5 (5.3-8.1)
August 16-22, 2020	10.2 (9.0-11.5)	10.2 (8.6-12.0)	10.2 (8.6-12.0)
August 23-29, 2020	6.2 (5.4-7.3)	5.8 (4.6-7.2)	6.7 (5.4-8.2)
August 30-September 5, 2020	4.2 (3.5-5.0)	4.2 (3.2-5.5)	4.2 (3.2-5.4)
September 6-12, 2020	4.1 (3.4-5.0)	3.7 (2.8-4.9)	4.6 (3.6-5.9)
September 13-19, 2020	9.3 (8.2-10.5)	8.3 (6.9-10.0)	10.2 (8.6-12.0)
September 20-26, 2020	9.3 (8.2-10.5)	9.8 (8.2-11.6)	8.8 (7.4-10.6)
September 27-October 3, 2020	12.7 (11.5-14.2)	11.3 (9.7-13.3)	14.1 (12.3-16.3)
October 4-10, 2020	20.3 (18.7-22.1)	19.5 (17.3-22.1)	21.0 (18.7-23.6)
October 11-17, 2020	25.9 (24.1-27.9)	28.3 (25.5-31.3)	23.6 (21.2-26.4)
October 18-24, 2020	51.1 (48.5-53.9)	49.2 (45.6-53.2)	53.0 (49.2-57.0)
October 25-31, 2020	69.9 (66.8-73.1)	71.6 (67.2-76.3)	68.1 (63.8-72.7)
November 1-7, 2020	86.9 (83.4-90.5)	88.8 (83.9-94.0)	85.0 (80.2-90.0)
November 8-14, 2020	93.6 (90.0-97.4)	93.8 (88.7-99.2)	93.4 (88.4-98.7)
November 15-21, 2020	99.1 (95.4-102.9)	92.6 (87.5-97.9)	105.5 (100.2-111.2)
November 22-28, 2020	85.8 (82.4-89.4)	80.9 (76.2-85.9)	90.7 (85.7-95.9)
November 29-December 5, 2020	81.1 (77.7-84.6)	78.4 (73.8-83.3)	83.7 (78.9-88.8)
December 6-12, 2020	68.6 (65.5-71.9)	70.0 (65.6-74.6)	67.3 (63.0-71.8)
December 13-19, 2020	56.2 (53.4-59.1)	55.8 (51.9-60.0)	56.6 (52.7-60.8)
December 20-26, 2020	38.2 (35.9-40.6)	40.1 (36.8-43.7)	36.3 (33.2-39.7)
December 27, 2020-January 2, 2021	35.7 (33.5-38.0)	33.1 (30.1-36.3)	38.3 (35.1-41.7)
January 3-9, 2021	45.7 (43.2-48.4)	43.5 (40.1-47.2)	48.0 (44.4-51.8)
January 10-16, 2021	43.3 (40.9-45.9)	42.8 (39.4-46.5)	43.8 (40.4-47.5)
January 17-23, 2021	39.6 (37.3-42.1)	40.0 (36.8-43.6)	39.2 (36.0-42.7)
January 24-30, 2021	27.8 (25.9-29.9)	27.6 (24.9-30.6)	28.0 (25.3-31.0)
January 31-February 6, 2021	18.8 (17.2-20.5)	17.5 (15.4-20.0)	19.9 (17.7-22.5)
February 7-13, 2021	21.6 (19.9-23.5)	21.3 (19.0-24.0)	21.9 (19.5-24.6)
February 14-20, 2021	19.0 (17.4-20.8)	17.8 (15.6-20.2)	20.3 (18.0-22.8)
February 21-27, 2021	13.5 (12.2-15.0)	13.3 (11.5-15.4)	13.8 (11.9-15.9)
February 28-March 6, 2021	13.9 (12.6-15.4)	13.4 (11.5-15.5)	14.5 (12.5-16.6)
March 7-13, 2021	19.5 (17.9-21.3)	19.0 (16.8-21.5)	20.1 (17.8-22.7)
March 14-20, 2021	21.1 (19.4-23.0)	22.1 (19.7-24.8)	20.2 (17.9-22.7)
March 21-27, 2021	18.1 (16.6-19.8)	18.4 (16.2-20.8)	17.9 (15.8-20.3)
March 28-April 3, 2021	19.0 (17.4-20.7)	20.0 (17.7-22.5)	18.0 (15.8-20.4)

<b>Week</b>	<b>Overall</b>	<b>Male</b>	<b>Female</b>
April 4-10, 2021	28.7 (26.7-30.8)	28.3 (25.6-31.3)	29.0 (26.3-32.1)
April 11-17, 2021	35.2 (33.0-37.5)	33.5 (30.6-36.8)	36.9 (33.8-40.3)
April 18-24, 2021	54.3 (51.6-57.2)	55.0 (51.1-59.1)	53.7 (49.9-57.8)
April 25-May 1, 2021	65.0 (62.0-68.1)	66.0 (61.8-70.6)	64.0 (59.8-68.4)
May 2-8, 2021	96.9 (93.2-100.7)	100.6 (95.3-106.2)	93.3 (88.2-98.6)
May 9-15, 2021	109.1 (105.2-113.2)	106.6 (101.2-112.4)	111.5 (106.0-117.3)
May 16-22, 2021	105.1 (101.3-109.1)	107.0 (101.6-112.8)	103.2 (97.9-108.9)
May 23-29, 2021	75.3 (72.0-78.7)	74.8 (70.2-79.6)	75.8 (71.2-80.6)

**Supplementary Table 17 Weekly incidence rates of COVID-19 per 1,000 person-years (95% confidence interval) according to age**

Week	Overall	<10	10-17	18-29	30-49	50-64	≥65
March 8-14, 2020	0.6 (0.3-0.9)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.0 (0.0-1.0)	0.6 (0.2-1.5)	0.8 (0.3-2.1)	1.6 (0.8-3.4)
March 15-21, 2020	1.5 (1.1-2.1)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	3.8 (2.3-6.1)	2.3 (1.4-3.7)	0.8 (0.3-2.1)	1.2 (0.5-2.8)
March 22-28, 2020	3.9 (3.2-4.7)	0.9 (0.3-2.8)	0.0 (0.0-1.6)	6.1 (4.2-9.0)	3.5 (2.4-5.2)	6.6 (4.7-9.3)	3.7 (2.3-6.1)
March 29-April 4, 2020	1.9 (1.5-2.5)	0.3 (0.0-2.1)	0.0 (0.0-1.6)	2.4 (1.3-4.4)	2.1 (1.3-3.5)	3.2 (2.0-5.2)	2.1 (1.1-4.0)
April 5-11, 2020	0.8 (0.5-1.2)	0.0 (0.0-1.3)	0.4 (0.1-2.7)	0.9 (0.4-2.5)	0.8 (0.4-1.9)	1.0 (0.4-2.4)	1.2 (0.5-2.8)
April 12-18, 2020	0.5 (0.3-0.8)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	1.2 (0.5-2.8)	0.6 (0.2-1.5)	0.2 (0.0-1.4)	0.7 (0.2-2.2)
April 19-25, 2020	0.6 (0.3-0.9)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.5 (0.1-1.9)	1.3 (0.7-2.4)	0.0 (0.0-0.9)	0.9 (0.4-2.5)
April 26-May 2, 2020	0.3 (0.2-0.6)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.2 (0.0-1.7)	0.6 (0.2-1.5)	0.0 (0.0-0.9)	0.7 (0.2-2.2)
May 3-9, 2020	0.2 (0.1-0.5)	0.3 (0.0-2.1)	0.0 (0.0-1.6)	0.5 (0.1-1.9)	0.4 (0.1-1.3)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
May 10-16, 2020	0.0 (0.0-0.3)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.0 (0.0-1.0)	0.1 (0.0-1.0)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
May 17-23, 2020	0.1 (0.0-0.3)	0.3 (0.0-2.1)	0.0 (0.0-1.6)	0.0 (0.0-1.0)	0.1 (0.0-1.0)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
May 24-30, 2020	0.2 (0.1-0.5)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.5 (0.1-1.9)	0.3 (0.1-1.1)	0.4 (0.1-1.6)	0.0 (0.0-1.0)
May 31-June 6, 2020	0.1 (0.0-0.3)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.2 (0.0-1.7)	0.1 (0.0-1.0)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
June 7-13, 2020	0.2 (0.1-0.5)	0.0 (0.0-1.3)	0.4 (0.1-2.7)	0.2 (0.0-1.7)	0.6 (0.2-1.5)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
June 14-20, 2020	0.3 (0.1-0.6)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.2 (0.0-1.7)	0.6 (0.2-1.5)	0.4 (0.1-1.6)	0.0 (0.0-1.0)
June 21-27, 2020	0.3 (0.2-0.6)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.5 (0.1-1.9)	0.8 (0.4-1.9)	0.2 (0.0-1.4)	0.0 (0.0-1.0)
June 28-July 4, 2020	0.0 (0.0-0.2)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	0.0 (0.0-1.0)	0.0 (0.0-0.6)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
July 5-11, 2020	0.1 (0.1-0.4)	0.0 (0.0-1.3)	0.4 (0.1-2.7)	0.5 (0.1-1.9)	0.1 (0.0-1.0)	0.0 (0.0-0.9)	0.0 (0.0-1.0)
July 12-18, 2020	1.6 (1.2-2.2)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	2.8 (1.6-4.9)	2.0 (1.2-3.3)	2.0 (1.1-3.7)	1.9 (0.9-3.8)
July 19-25, 2020	0.9 (0.6-1.3)	0.6 (0.1-2.4)	0.8 (0.2-3.0)	1.4 (0.6-3.1)	0.8 (0.4-1.9)	1.0 (0.4-2.4)	0.7 (0.2-2.2)
July 26-August 1, 2020	1.4 (1.0-1.9)	0.0 (0.0-1.3)	0.0 (0.0-1.6)	1.6 (0.8-3.4)	3.2 (2.2-4.9)	0.4 (0.1-1.6)	1.2 (0.5-2.8)
August 2-8, 2020	4.5 (3.7-5.3)	2.4 (1.2-4.7)	3.8 (2.0-7.1)	7.7 (5.5-10.9)	7.0 (5.3-9.3)	2.2 (1.2-4.0)	1.6 (0.8-3.5)
August 9-15, 2020	7.0 (6.0-8.0)	5.6 (3.6-8.8)	6.5 (4.0-10.4)	6.8 (4.7-9.8)	10.1 (8.1-12.8)	6.6 (4.7-9.3)	3.8 (2.3-6.2)
August 16-22, 2020	10.2 (9.0-11.5)	2.7 (1.4-5.1)	11.0 (7.7-15.9)	15.4 (12.1-19.6)	13.4 (11.0-16.4)	10.1 (7.6-13.3)	5.4 (3.6-8.2)
August 23-29, 2020	6.2 (5.4-7.3)	2.1 (1.0-4.3)	11.4 (8.0-16.3)	8.4 (6.1-11.7)	6.8 (5.1-9.0)	5.8 (4.1-8.4)	4.0 (2.5-6.5)
August 30-September 5, 2020	4.2 (3.5-5.0)	2.4 (1.2-4.7)	4.2 (2.3-7.6)	5.4 (3.6-8.1)	5.1 (3.7-7.0)	3.6 (2.3-5.7)	3.8 (2.3-6.2)
September 6-12, 2020	4.1 (3.4-5.0)	2.7 (1.4-5.1)	3.8 (2.0-7.1)	5.1 (3.4-7.8)	4.7 (3.3-6.5)	5.4 (3.7-7.9)	2.4 (1.3-4.4)
September 13-19, 2020	9.3 (8.2-10.5)	4.1 (2.5-7.0)	13.3 (9.6-18.5)	25.9 (21.5-31.2)	5.6 (4.1-7.7)	3.8 (2.4-6.0)	6.9 (4.8-9.9)
September 20-26, 2020	9.3 (8.2-10.5)	4.7 (2.9-7.7)	8.7 (5.8-13.2)	15.7 (12.3-19.9)	10.4 (8.3-13.1)	7.4 (5.4-10.3)	7.1 (5.0-10.2)
September 27-October 3, 2020	12.7 (11.5-14.2)	8.0 (5.5-11.6)	8.0 (5.2-12.2)	18.5 (14.8-23.0)	14.2 (11.7-17.3)	14.7 (11.7-18.5)	9.5 (7.0-12.9)
October 4-10, 2020	20.3 (18.7-22.1)	11.2 (8.2-15.4)	15.2 (11.2-20.7)	25.5 (21.1-30.7)	24.2 (20.9-28.1)	20.5 (16.9-24.9)	19.0 (15.2-23.6)
October 11-17, 2020	25.9 (24.1-27.9)	14.8 (11.2-19.5)	23.2 (18.1-29.8)	33.6 (28.6-39.6)	32.0 (28.1-36.4)	24.6 (20.6-29.3)	20.7 (16.7-25.5)
October 18-24, 2020	51.1 (48.5-53.9)	25.1 (20.3-31.1)	51.8 (43.8-61.2)	56.3 (49.6-63.9)	63.9 (58.3-70.1)	47.8 (42.1-54.3)	50.9 (44.5-58.2)
October 25-31, 2020	69.9 (66.8-73.1)	31.4 (25.9-37.9)	79.3 (69.2-90.8)	101.2 (92.1-111.2)	76.8 (70.6-83.5)	76.3 (69.0-84.4)	46.4 (40.4-53.4)
November 1-7, 2020	86.9 (83.4-90.5)	47.1 (40.3-55.0)	83.2 (72.8-95.0)	113.9 (104.2-124.5)	92.7 (85.9-100.1)	91.5 (83.5-100.4)	81.1 (72.9-90.2)
November 8-14, 2020	93.6 (90.0-97.4)	48.3 (41.4-56.3)	74.1 (64.4-85.3)	116.1 (106.3-126.8)	101.5 (94.3-109.2)	91.5 (83.4-100.3)	111.5 (101.8-122.0)
November 15-21, 2020	99.1 (95.4-102.9)	55.8 (48.3-64.3)	81.5 (71.2-93.2)	120.0 (110.0-130.8)	106.8 (99.4-114.7)	95.9 (87.7-105.0)	119.0 (108.9-129.9)
November 22-28, 2020	85.8 (82.4-89.4)	48.7 (41.8-56.7)	75.1 (65.3-86.3)	98.3 (89.3-108.1)	97.1 (90.1-104.7)	78.8 (71.3-87.1)	101.7 (92.5-111.9)
November 29-December 5, 2020	81.1 (77.7-84.6)	56.7 (49.2-65.4)	75.2 (65.3-86.5)	97.0 (88.1-106.8)	84.9 (78.4-92.0)	77.5 (70.1-85.7)	88.0 (79.4-97.5)
December 6-12, 2020	68.6 (65.5-71.9)	49.0 (42.1-57.1)	61.4 (52.6-71.7)	85.1 (76.8-94.3)	70.9 (64.9-77.4)	62.5 (55.9-69.9)	77.3 (69.3-86.2)
December 13-19, 2020	56.2 (53.4-59.1)	38.1 (32.0-45.3)	49.6 (41.7-58.9)	68.2 (60.8-76.5)	58.4 (53.0-64.4)	53.4 (47.3-60.3)	63.4 (56.2-71.5)
December 20-26, 2020	38.2 (35.9-40.6)	25.6 (20.7-31.6)	43.1 (35.8-51.8)	51.8 (45.4-59.1)	40.1 (35.7-45.1)	34.1 (29.3-39.7)	34.2 (29.0-40.3)
December 27, 2020-January 2, 2021	35.7 (33.5-38.0)	20.2 (16.0-25.7)	36.9 (30.2-45.1)	41.9 (36.2-48.5)	34.7 (30.6-39.3)	39.4 (34.2-45.4)	39.5 (33.9-46.1)
January 3-9, 2021	45.7 (43.2-48.4)	39.9 (33.7-47.3)	47.8 (40.1-56.9)	65.0 (57.8-73.1)	46.6 (41.8-51.9)	39.0 (33.9-45.0)	35.7 (30.4-41.9)
January 10-16, 2021	43.3 (40.9-45.9)	48.9 (41.9-57.0)	57.8 (49.3-67.9)	50.4 (44.1-57.6)	44.4 (39.8-49.7)	35.2 (30.3-40.8)	31.1 (26.2-37.0)
January 17-23, 2021	39.6 (37.3-42.1)	53.7 (46.4-62.1)	57.1 (48.6-67.1)	46.9 (40.8-53.9)	37.3 (33.1-42.1)	34.6 (29.7-40.2)	19.0 (15.2-23.7)
January 24-30, 2021	27.8 (25.9-29.9)	33.7 (28.0-40.5)	33.2 (26.9-41.0)	43.1 (37.3-49.8)	25.0 (21.6-29.0)	21.1 (17.4-25.6)	15.3 (12.0-19.6)
January 31-February 6, 2021	18.8 (17.2-20.5)	22.4 (17.9-28.1)	17.0 (12.6-22.8)	26.8 (22.3-32.2)	16.7 (14.0-20.1)	12.9 (10.1-16.5)	18.5 (14.8-23.2)
February 7-13, 2021	21.6 (19.9-23.5)	29.6 (24.3-36.0)	29.7 (23.8-37.2)	27.8 (23.2-33.3)	20.6 (17.5-24.3)	15.6 (12.4-19.5)	13.6 (10.5-17.7)
February 14-20, 2021	19.0 (17.4-20.8)	27.8 (22.7-34.0)	18.9 (14.3-25.1)	24.5 (20.2-29.7)	18.2 (15.3-21.6)	13.3 (10.4-17.0)	14.1 (10.9-18.3)
February 21-27, 2021	13.5 (12.2-15.0)	17.6 (13.7-22.8)	18.6 (14.0-24.6)	17.4 (13.9-21.9)	13.7 (11.2-16.8)	8.4 (6.2-11.4)	8.3 (5.9-11.6)
February 28-March 6, 2021	13.9 (12.6-15.4)	14.9 (11.3-19.7)	14.7 (10.7-20.2)	20.2 (16.4-25.0)	13.6 (11.1-16.6)	11.1 (8.5-14.4)	9.3 (6.7-12.7)
March 7-13, 2021	19.5 (17.9-21.3)	32.9 (27.3-39.6)	24.0 (18.7-30.8)	22.5 (18.5-27.5)	18.3 (15.4-21.8)	15.2 (12.1-19.0)	9.5 (7.0-13.0)

<b>Week</b>	<b>Overall</b>	<b>&lt;10</b>	<b>10-17</b>	<b>18-29</b>	<b>30-49</b>	<b>50-64</b>	<b>≥65</b>
March 14-20, 2021	21.1 (19.4-23.0)	33.2 (27.6-40.0)	26.7 (21.1-33.8)	25.8 (21.4-31.1)	23.6 (20.3-27.5)	14.3 (11.4-18.1)	6.6 (4.5-9.6)
March 21-27, 2021	18.1 (16.6-19.8)	20.6 (16.3-26.1)	31.7 (25.6-39.4)	26.5 (22.0-31.9)	16.0 (13.3-19.3)	12.1 (9.4-15.6)	10.0 (7.4-13.6)
March 28-April 3, 2021	19.0 (17.4-20.7)	20.3 (16.0-25.8)	31.0 (24.9-38.6)	24.6 (20.3-29.8)	18.5 (15.5-21.9)	14.6 (11.5-18.4)	10.5 (7.8-14.2)
April 4-10, 2021	28.7 (26.7-30.8)	27.2 (22.2-33.4)	44.2 (36.8-53.1)	44.8 (38.8-51.6)	27.2 (23.6-31.3)	23.6 (19.6-28.3)	13.0 (9.9-17.0)
April 11-17, 2021	35.2 (33.0-37.5)	39.5 (33.3-46.8)	40.3 (33.3-48.9)	53.4 (46.9-60.8)	36.9 (32.7-41.7)	28.3 (24.0-33.5)	15.2 (11.8-19.5)
April 18-24, 2021	54.3 (51.6-57.2)	72.2 (63.6-81.9)	83.4 (73.0-95.3)	68.0 (60.6-76.3)	59.0 (53.6-65.0)	43.5 (38.0-49.8)	14.7 (11.4-18.9)
April 25-May 1, 2021	65.0 (62.0-68.1)	84.6 (75.3-95.0)	86.6 (76.0-98.8)	84.2 (76.0-93.4)	77.7 (71.4-84.5)	43.6 (38.1-49.8)	20.1 (16.2-24.9)
May 2-8, 2021	96.9 (93.2-100.7)	129.5 (117.8-142.3)	112.9 (100.6-126.6)	137.0 (126.3-148.6)	116.0 (108.3-124.3)	66.4 (59.6-74.1)	24.7 (20.4-30.1)
May 9-15, 2021	109.1 (105.2-113.2)	104.8 (94.3-116.4)	140.4 (126.7-155.7)	169.7 (157.7-182.5)	126.4 (118.3-135.0)	77.4 (70.0-85.7)	38.7 (33.1-45.3)
May 16-22, 2021	105.1 (101.3-109.1)	105.9 (95.4-117.6)	122.4 (109.6-136.8)	162.9 (151.2-175.5)	117.4 (109.6-125.8)	81.9 (74.2-90.4)	41.2 (35.4-47.9)
May 23-29, 2021	75.3 (72.0-78.7)	78.3 (69.3-88.4)	94.8 (83.6-107.6)	115.4 (105.6-126.1)	83.0 (76.4-90.0)	52.0 (46.0-58.9)	34.9 (29.6-41.1)

**Supplementary Table 18 Weekly incidence rates of COVID-19 per 1,000 person-years (95% confidence interval) according to income quintile**

Week	Overall	Q1 (lowest)	Q2	Q3	Q4	Q5 (highest)
March 8-14, 2020	0.6 (0.3-0.9)	0.2 (0.0-1.4)	0.4 (0.1-1.5)	1.0 (0.4-2.3)	0.6 (0.2-1.8)	0.8 (0.3-2.1)
March 15-21, 2020	1.5 (1.1-2.1)	0.8 (0.3-2.1)	0.4 (0.1-1.5)	1.0 (0.4-2.3)	2.7 (1.6-4.6)	2.7 (1.6-4.6)
March 22-28, 2020	3.9 (3.2-4.7)	1.8 (0.9-3.4)	2.1 (1.2-3.8)	2.9 (1.8-4.8)	5.4 (3.7-7.8)	7.7 (5.7-10.5)
March 29-April 4, 2020	1.9 (1.5-2.5)	1.4 (0.7-2.9)	1.2 (0.5-2.6)	1.4 (0.6-2.8)	2.1 (1.2-3.8)	3.5 (2.2-5.5)
April 5-11, 2020	0.8 (0.5-1.2)	0.8 (0.3-2.1)	0.2 (0.0-1.4)	1.7 (0.9-3.4)	0.6 (0.2-1.8)	0.8 (0.3-2.1)
April 12-18, 2020	0.5 (0.3-0.8)	0.6 (0.2-1.8)	0.8 (0.3-2.1)	0.4 (0.1-1.6)	0.6 (0.2-1.8)	0.2 (0.0-1.4)
April 19-25, 2020	0.6 (0.3-0.9)	1.0 (0.4-2.4)	0.2 (0.0-1.4)	1.4 (0.6-2.8)	0.0 (0.0-0.8)	0.4 (0.1-1.5)
April 26-May 2, 2020	0.3 (0.2-0.6)	0.8 (0.3-2.1)	0.2 (0.0-1.4)	0.4 (0.1-1.5)	0.2 (0.0-1.4)	0.0 (0.0-0.8)
May 3-9, 2020	0.2 (0.1-0.5)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.8 (0.3-2.1)	0.4 (0.1-1.5)	0.0 (0.0-0.8)
May 10-16, 2020	0.0 (0.0-0.3)	0.0 (0.0-0.8)	0.2 (0.0-1.4)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.0 (0.0-0.8)
May 17-23, 2020	0.1 (0.0-0.3)	0.0 (0.0-0.8)	0.4 (0.1-1.5)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.0 (0.0-0.8)
May 24-30, 2020	0.2 (0.1-0.5)	0.0 (0.0-0.8)	0.8 (0.3-2.0)	0.4 (0.1-1.5)	0.0 (0.0-0.8)	0.0 (0.0-0.8)
May 31-June 6, 2020	0.1 (0.0-0.3)	0.0 (0.0-0.9)	0.0 (0.0-0.8)	0.2 (0.0-1.4)	0.0 (0.0-0.8)	0.2 (0.0-1.4)
June 7-13, 2020	0.2 (0.1-0.5)	0.0 (0.0-0.8)	0.4 (0.1-1.5)	0.0 (0.0-0.8)	0.2 (0.0-1.4)	0.4 (0.1-1.6)
June 14-20, 2020	0.3 (0.1-0.6)	0.2 (0.0-1.4)	0.0 (0.0-0.8)	0.2 (0.0-1.4)	0.6 (0.2-1.8)	0.4 (0.1-1.6)
June 21-27, 2020	0.3 (0.2-0.6)	0.4 (0.1-1.6)	0.0 (0.0-0.8)	0.6 (0.2-1.8)	0.6 (0.2-1.8)	0.2 (0.0-1.4)
June 28-July 4, 2020	0.0 (0.0-0.2)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.0 (0.0-0.8)
July 5-11, 2020	0.1 (0.1-0.4)	0.0 (0.0-0.8)	0.2 (0.0-1.4)	0.2 (0.0-1.4)	0.2 (0.0-1.4)	0.0 (0.0-0.8)
July 12-18, 2020	1.6 (1.2-2.2)	0.2 (0.0-1.4)	1.7 (0.9-3.3)	1.0 (0.4-2.3)	0.4 (0.1-1.5)	1.0 (0.4-2.3)
July 19-25, 2020	0.9 (0.6-1.3)	1.2 (0.5-2.6)	1.5 (0.8-3.1)	1.0 (0.4-2.3)	0.6 (0.2-1.8)	0.4 (0.1-1.6)
July 26-August 1, 2020	1.4 (1.0-1.9)	1.0 (0.4-2.4)	3.1 (1.9-5.0)	1.0 (0.4-2.3)	1.9 (1.0-3.6)	0.0 (0.0-0.8)
August 2-8, 2020	4.5 (3.7-5.3)	3.9 (2.5-6.1)	9.0 (6.8-12.0)	2.5 (1.5-4.3)	3.1 (1.9-5.0)	4.5 (3.0-6.7)
August 9-15, 2020	7.0 (6.0-8.0)	7.6 (5.6-10.5)	7.7 (5.6-10.5)	4.8 (3.3-7.2)	5.8 (4.0-8.3)	8.7 (6.5-11.7)
August 16-22, 2020	10.2 (9.0-11.5)	5.9 (4.1-8.4)	5.0 (3.4-7.3)	11.6 (9.0-15.0)	19.7 (16.2-23.9)	9.3 (7.0-12.4)
August 23-29, 2020	6.2 (5.4-7.3)	5.9 (4.1-8.4)	5.4 (3.7-7.8)	7.4 (5.4-10.1)	7.1 (5.2-9.9)	5.1 (3.4-7.4)
August 30-September 5, 2020	4.2 (3.5-5.0)	7.1 (5.1-9.8)	2.9 (1.7-4.8)	2.5 (1.5-4.3)	4.6 (3.1-6.9)	4.3 (2.8-6.5)
September 6-12, 2020	4.1 (3.4-5.0)	6.9 (4.9-9.6)	6.3 (4.5-8.9)	2.1 (1.2-3.8)	4.1 (2.6-6.2)	1.6 (0.8-3.1)
September 13-19, 2020	9.3 (8.2-10.5)	10.8 (8.3-14.0)	8.3 (6.1-11.1)	5.8 (4.1-8.3)	8.1 (6.0-11.0)	12.8 (10.1-16.3)
September 20-26, 2020	9.3 (8.2-10.5)	14.3 (11.4-18.0)	9.0 (6.8-12.0)	7.5 (5.5-10.3)	6.4 (4.5-9.0)	9.3 (7.0-12.4)
September 27-October 3, 2020	12.7 (11.5-14.2)	22.7 (18.9-27.3)	8.6 (6.5-11.6)	8.3 (6.2-11.2)	10.4 (8.0-13.6)	10.5 (8.0-13.7)
October 4-10, 2020	20.3 (18.7-22.1)	33.3 (28.7-38.7)	17.5 (14.2-21.5)	15.7 (12.6-19.5)	17.2 (13.9-21.1)	14.2 (11.3-17.8)
October 11-17, 2020	25.9 (24.1-27.9)	38.4 (33.4-44.2)	24.6 (20.7-29.2)	18.4 (15.0-22.5)	23.0 (19.2-27.5)	22.5 (18.8-27.0)
October 18-24, 2020	51.1 (48.5-53.9)	71.0 (64.0-78.7)	46.1 (40.6-52.3)	45.9 (40.4-52.1)	42.8 (37.6-48.9)	39.0 (34.0-44.8)
October 25-31, 2020	69.9 (66.8-73.1)	102.5 (94.1-111.7)	55.4 (49.3-62.2)	60.3 (53.9-67.3)	66.4 (59.8-73.8)	62.0 (55.6-69.2)
November 1-7, 2020	86.9 (83.4-90.5)	108.3 (99.7-117.8)	73.1 (66.1-80.9)	79.3 (72.0-87.4)	90.9 (83.0-99.5)	77.2 (70.0-85.2)
November 8-14, 2020	93.6 (90.0-97.4)	103.8 (95.3-113.0)	99.2 (91.0-108.2)	82.3 (74.8-90.5)	104.5 (96.1-113.7)	64.9 (58.3-72.2)
November 15-21, 2020	99.1 (95.4-102.9)	130.7 (121.1-141.1)	103.4 (95.0-112.6)	83.4 (75.9-91.7)	99.3 (91.0-108.3)	67.1 (60.3-74.5)
November 22-28, 2020	85.8 (82.4-89.4)	127.4 (117.9-137.6)	84.2 (76.7-92.5)	68.9 (62.1-76.4)	84.5 (76.9-92.8)	50.7 (44.9-57.3)
November 29-December 5, 2020	81.1 (77.7-84.6)	146.8 (136.6-157.8)	82.9 (75.4-91.1)	63.1 (56.5-70.3)	59.9 (53.6-67.0)	40.8 (35.6-46.7)
December 6-12, 2020	68.6 (65.5-71.9)	132.5 (122.8-143.0)	69.8 (62.9-77.4)	39.9 (34.8-45.7)	46.0 (40.5-52.2)	40.6 (35.4-46.5)
December 13-19, 2020	56.2 (53.4-59.1)	97.0 (88.7-106.1)	63.2 (56.7-70.5)	37.0 (32.0-42.6)	44.4 (39.0-50.6)	35.5 (30.7-41.1)
December 20-26, 2020	38.2 (35.9-40.6)	63.6 (57.0-71.0)	39.7 (34.6-45.6)	30.7 (26.3-35.9)	29.8 (25.5-34.9)	23.9 (20.1-28.6)
December 27, 2020-January 2, 2021	35.7 (33.5-38.0)	54.6 (48.5-61.5)	37.6 (32.7-43.3)	28.6 (24.3-33.6)	27.1 (23.0-32.0)	24.1 (20.2-28.8)
January 3-9, 2021	45.7 (43.2-48.4)	72.6 (65.4-80.4)	45.2 (39.8-51.4)	29.9 (25.6-35.1)	52.5 (46.6-59.1)	25.3 (21.3-30.1)
January 10-16, 2021	43.3 (40.9-45.9)	95.4 (87.2-104.3)	48.0 (42.3-54.4)	19.2 (15.7-23.4)	31.6 (27.1-36.9)	24.0 (20.1-28.6)
January 17-23, 2021	39.6 (37.3-42.1)	94.3 (86.1-103.2)	46.6 (41.1-52.9)	18.2 (14.9-22.3)	18.0 (14.6-22.0)	24.2 (20.2-28.8)
January 24-30, 2021	27.8 (25.9-29.9)	69.2 (62.2-76.9)	27.9 (23.7-32.9)	11.9 (9.3-15.3)	15.8 (12.7-19.7)	16.3 (13.1-20.2)
January 31-February 6, 2021	18.8 (17.2-20.5)	35.1 (30.3-40.7)	18.1 (14.8-22.2)	12.3 (9.6-15.8)	11.9 (9.3-15.3)	18.3 (14.9-22.4)
February 7-13, 2021	21.6 (19.9-23.5)	45.2 (39.6-51.5)	18.1 (14.8-22.2)	12.9 (10.1-16.4)	11.7 (9.1-15.1)	22.4 (18.6-26.9)
February 14-20, 2021	19.0 (17.4-20.8)	43.6 (38.1-49.8)	14.4 (11.5-18.1)	11.9 (9.3-15.3)	10.3 (7.9-13.5)	14.1 (11.2-17.8)
February 21-27, 2021	13.5 (12.2-15.0)	29.5 (25.1-34.7)	13.9 (11.0-17.5)	7.6 (5.6-10.4)	6.6 (4.7-9.3)	11.6 (9.0-15.0)
February 28-March 6, 2021	13.9 (12.6-15.4)	38.8 (33.6-44.6)	14.0 (11.1-17.7)	6.3 (4.4-8.8)	6.2 (4.4-8.8)	6.7 (4.8-9.3)
March 7-13, 2021	19.5 (17.9-21.3)	52.5 (46.5-59.3)	17.0 (13.8-20.9)	8.4 (6.2-11.3)	14.6 (11.7-18.3)	9.0 (6.8-12.1)
March 14-20, 2021	21.1 (19.4-23.0)	58.0 (51.6-65.1)	10.1 (7.7-13.3)	14.3 (11.3-17.9)	14.8 (11.8-18.5)	11.0 (8.5-14.3)
March 21-27, 2021	18.1 (16.6-19.8)	39.2 (34.1-45.1)	17.0 (13.8-20.9)	10.7 (8.3-14.0)	13.1 (10.3-16.6)	11.6 (9.0-15.0)
March 28-April 3, 2021	19.0 (17.4-20.7)	40.6 (35.4-46.6)	15.8 (12.7-19.6)	11.5 (8.9-14.9)	17.5 (14.3-21.6)	11.4 (8.8-14.7)

<b>Week</b>	<b>Overall</b>	<b>Q1 (lowest)</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5 (highest)</b>
April 4-10, 2021	28.7 (26.7-30.8)	39.0 (33.9-44.9)	31.0 (26.5-36.2)	25.2 (21.2-29.9)	28.6 (24.4-33.7)	19.8 (16.3-24.1)
April 11-17, 2021	35.2 (33.0-37.5)	56.2 (50.0-63.2)	31.2 (26.7-36.4)	31.2 (26.8-36.5)	34.1 (29.4-39.6)	26.3 (22.2-31.2)
April 18-24, 2021	54.3 (51.6-57.2)	76.1 (68.8-84.2)	51.9 (46.0-58.5)	50.8 (45.0-57.4)	48.4 (42.7-54.8)	44.6 (39.1-50.8)
April 25-May 1, 2021	65.0 (62.0-68.1)	93.8 (85.6-102.8)	65.4 (58.8-72.8)	64.9 (58.3-72.3)	58.1 (51.9-65.1)	45.2 (39.7-51.4)
May 2-8, 2021	96.9 (93.2-100.7)	138.9 (128.8-149.7)	112.8 (104.0-122.4)	92.0 (84.1-100.7)	70.7 (63.8-78.4)	67.7 (60.9-75.2)
May 9-15, 2021	109.1 (105.2-113.2)	148.4 (138.0-159.5)	133.4 (123.8-143.8)	104.9 (96.4-114.2)	86.7 (79.0-95.1)	71.3 (64.3-79.0)
May 16-22, 2021	105.1 (101.3-109.1)	171.3 (160.0-183.2)	122.0 (112.8-132.0)	94.1 (86.1-102.9)	76.4 (69.2-84.4)	62.5 (56.0-69.8)
May 23-29, 2021	75.3 (72.0-78.7)	121.2 (111.8-131.3)	89.4 (81.5-98.0)	62.4 (55.9-69.6)	62.6 (56.1-69.8)	41.9 (36.6-47.9)

**Supplementary Table 19 Weekly incidence rates of COVID-19 per 1,000 person-years (95% confidence interval) according to region**

Week	Overall	Interlake-Eastern	Northern	Southern	Prairie Mountain	Winnipeg
March 8-14, 2020	0.6 (0.3-0.9)	0.4 (0.1-2.8)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	0.0 (0.0-1.3)	0.8 (0.5-1.4)
March 15-21, 2020	1.5 (1.1-2.1)	0.4 (0.1-2.8)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	1.5 (0.6-3.6)	2.2 (1.6-3.1)
March 22-28, 2020	3.9 (3.2-4.7)	2.0 (0.8-4.7)	1.3 (0.3-5.4)	2.7 (1.5-4.9)	0.6 (0.2-2.4)	5.5 (4.4-6.8)
March 29-April 4, 2020	1.9 (1.5-2.5)	2.8 (1.3-5.8)	0.7 (0.1-4.8)	1.2 (0.5-3.0)	0.3 (0.0-2.1)	2.4 (1.8-3.4)
April 5-11, 2020	0.8 (0.5-1.2)	1.6 (0.6-4.2)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	0.3 (0.0-2.1)	0.9 (0.5-1.6)
April 12-18, 2020	0.5 (0.3-0.8)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.2 (0.0-1.8)	0.3 (0.0-2.1)	0.7 (0.4-1.3)
April 19-25, 2020	0.6 (0.3-0.9)	0.4 (0.1-2.8)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	0.6 (0.2-2.4)	0.7 (0.4-1.2)
April 26-May 2, 2020	0.3 (0.2-0.6)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	1.8 (0.8-4.0)	0.1 (0.0-0.5)
May 3-9, 2020	0.2 (0.1-0.5)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	1.5 (0.6-3.6)	0.1 (0.0-0.5)
May 10-16, 2020	0.0 (0.0-0.3)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.1 (0.0-0.5)
May 17-23, 2020	0.1 (0.0-0.3)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.1 (0.0-0.5)
May 24-30, 2020	0.2 (0.1-0.5)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	1.0 (0.4-2.6)	0.0 (0.0-1.3)	0.1 (0.0-0.5)
May 31-June 6, 2020	0.1 (0.0-0.3)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.1 (0.0-0.5)
June 7-13, 2020	0.2 (0.1-0.5)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.4 (0.2-0.9)
June 14-20, 2020	0.3 (0.1-0.6)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	0.0 (0.0-1.3)	0.3 (0.1-0.8)
June 21-27, 2020	0.3 (0.2-0.6)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	0.0 (0.0-1.3)	0.5 (0.2-1.0)
June 28-July 4, 2020	0.0 (0.0-0.2)	0.0 (0.0-1.7)	0.0 (0.0-2.9)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.0 (0.0-0.3)
July 5-11, 2020	0.1 (0.1-0.4)	0.4 (0.1-2.8)	0.0 (0.0-2.9)	0.5 (0.1-2.0)	0.0 (0.0-1.3)	0.1 (0.0-0.5)
July 12-18, 2020	1.6 (1.2-2.2)	10.2 (6.9-14.9)	0.0 (0.0-2.9)	1.7 (0.8-3.6)	1.8 (0.8-4.0)	0.3 (0.1-0.8)
July 19-25, 2020	0.9 (0.6-1.3)	2.7 (1.3-5.7)	0.0 (0.0-2.9)	2.0 (1.0-3.9)	1.5 (0.6-3.6)	0.3 (0.1-0.7)
July 26-August 1, 2020	1.4 (1.0-1.9)	1.6 (0.6-4.2)	0.0 (0.0-2.9)	2.7 (1.5-4.9)	5.1 (3.2-8.2)	0.3 (0.1-0.8)
August 2-8, 2020	4.5 (3.7-5.3)	0.8 (0.2-3.1)	0.0 (0.0-2.9)	8.4 (6.0-11.7)	20.5 (16.1-26.0)	1.0 (0.6-1.6)
August 9-15, 2020	7.0 (6.0-8.0)	0.4 (0.1-2.8)	0.0 (0.0-2.9)	12.8 (9.7-16.8)	27.1 (22.0-33.3)	2.8 (2.1-3.8)
August 16-22, 2020	10.2 (9.0-11.5)	2.7 (1.3-5.7)	0.7 (0.1-4.7)	19.2 (15.3-23.9)	44.3 (37.7-52.0)	2.5 (1.8-3.4)
August 23-29, 2020	6.2 (5.4-7.3)	2.3 (1.1-5.2)	0.0 (0.0-2.9)	6.9 (4.7-10.0)	21.7 (17.2-27.3)	4.0 (3.1-5.2)
August 30-September 5, 2020	4.2 (3.5-5.0)	3.5 (1.8-6.8)	0.0 (0.0-2.9)	4.2 (2.6-6.7)	6.0 (3.9-9.3)	4.3 (3.4-5.5)
September 6-12, 2020	4.1 (3.4-5.0)	3.9 (2.1-7.3)	2.0 (0.6-6.2)	4.2 (2.6-6.7)	3.0 (1.6-5.6)	4.7 (3.7-5.9)
September 13-19, 2020	9.3 (8.2-10.5)	5.9 (3.5-9.7)	1.3 (0.3-5.3)	5.4 (3.6-8.2)	4.5 (2.7-7.5)	12.4 (10.8-14.4)
September 20-26, 2020	9.3 (8.2-10.5)	9.4 (6.3-14.0)	8.0 (4.5-14.1)	4.4 (2.8-7.0)	3.3 (1.8-6.0)	11.8 (10.2-13.6)
September 27-October 3, 2020	12.7 (11.5-14.2)	20.3 (15.5-26.7)	1.3 (0.3-5.3)	4.4 (2.8-7.0)	1.8 (0.8-4.0)	16.7 (14.8-18.9)
October 4-10, 2020	20.3 (18.7-22.1)	15.6 (11.5-21.3)	6.0 (3.1-11.5)	14.2 (11.0-18.4)	4.5 (2.7-7.5)	26.4 (23.9-29.1)
October 11-17, 2020	25.9 (24.1-27.9)	20.3 (15.5-26.7)	26.7 (19.5-36.3)	17.4 (13.8-22.0)	6.0 (3.9-9.3)	32.8 (30.0-35.8)
October 18-24, 2020	51.1 (48.5-53.9)	50.5 (42.5-60.0)	56.7 (45.8-70.1)	41.5 (35.7-48.2)	9.9 (7.1-14.0)	61.4 (57.6-65.5)
October 25-31, 2020	69.9 (66.8-73.1)	71.3 (61.6-82.4)	87.4 (73.6-103.7)	66.5 (59.1-74.9)	21.7 (17.2-27.3)	78.9 (74.6-83.5)
November 1-7, 2020	86.9 (83.4-90.5)	61.5 (52.6-72.0)	120.3 (103.9-139.2)	115.2 (105.2-126.1)	28.6 (23.4-35.0)	92.8 (88.0-97.7)
November 8-14, 2020	93.6 (90.0-97.4)	52.2 (44.0-61.8)	136.5 (119.0-156.6)	156.1 (144.4-168.7)	28.9 (23.7-35.3)	92.6 (87.9-97.6)
November 15-21, 2020	99.1 (95.4-102.9)	58.9 (50.2-69.1)	142.3 (124.3-162.7)	157.0 (145.3-169.7)	39.2 (33.0-46.5)	98.6 (93.7-103.7)
November 22-28, 2020	85.8 (82.4-89.4)	56.2 (47.7-66.2)	159.4 (140.3-181.0)	102.9 (93.5-113.3)	28.7 (23.4-35.0)	90.3 (85.6-95.2)
November 29-December 5, 2020	81.1 (77.7-84.6)	63.8 (54.7-74.4)	206.6 (184.6-231.1)	63.7 (56.4-72.0)	39.2 (33.0-46.6)	84.2 (79.7-88.9)
December 6-12, 2020	68.6 (65.5-71.9)	70.1 (60.5-81.2)	188.4 (167.4-211.9)	52.1 (45.5-59.6)	40.1 (33.9-47.6)	65.7 (61.7-69.9)
December 13-19, 2020	56.2 (53.4-59.1)	48.6 (40.8-58.0)	194.4 (173.1-218.4)	55.4 (48.6-63.1)	28.7 (23.5-35.1)	49.6 (46.2-53.3)
December 20-26, 2020	38.2 (35.9-40.6)	35.7 (29.1-43.8)	115.6 (99.4-134.4)	39.1 (33.4-45.7)	15.1 (11.4-19.9)	35.4 (32.5-38.6)
December 27, 2020-January 2, 2021	35.7 (33.5-38.0)	25.1 (19.7-32.1)	109.6 (93.8-127.9)	26.0 (21.4-31.4)	15.4 (11.7-20.3)	36.0 (33.1-39.2)
January 3-9, 2021	45.7 (43.2-48.4)	25.5 (20.0-32.5)	269.8 (244.4-297.8)	22.5 (18.3-27.6)	45.6 (38.9-53.5)	32.3 (29.5-35.3)
January 10-16, 2021	43.3 (40.9-45.9)	27.9 (22.1-35.2)	362.4 (332.7-394.8)	16.3 (12.8-20.8)	20.5 (16.2-26.1)	27.2 (24.7-30.0)
January 17-23, 2021	39.6 (37.3-42.1)	47.5 (39.8-56.8)	327.2 (299.0-358.2)	13.9 (10.7-18.0)	26.6 (21.6-32.8)	20.0 (17.9-22.4)
January 24-30, 2021	27.8 (25.9-29.9)	51.5 (43.4-61.1)	218.4 (195.5-244.0)	11.4 (8.5-15.2)	16.6 (12.8-21.7)	12.1 (10.4-13.9)
January 31-February 6, 2021	18.8 (17.2-20.5)	16.5 (12.2-22.3)	130.2 (112.7-150.3)	11.6 (8.7-15.5)	10.9 (7.8-15.1)	12.0 (10.4-13.9)
February 7-13, 2021	21.6 (19.9-23.5)	11.4 (7.9-16.4)	194.9 (173.3-219.3)	13.4 (10.2-17.4)	5.7 (3.7-9.0)	12.6 (10.9-14.5)
February 14-20, 2021	19.0 (17.4-20.8)	10.6 (7.3-15.5)	161.8 (142.2-184.2)	5.2 (3.4-8.0)	0.9 (0.3-2.8)	14.6 (12.8-16.6)
February 21-27, 2021	13.5 (12.2-15.0)	8.7 (5.7-13.1)	114.2 (97.9-133.3)	4.4 (2.8-7.1)	0.9 (0.3-2.8)	10.0 (8.6-11.8)
February 28-March 6, 2021	13.9 (12.6-15.4)	5.5 (3.3-9.3)	146.9 (128.3-168.3)	5.7 (3.8-8.6)	2.7 (1.4-5.2)	7.5 (6.2-9.0)
March 7-13, 2021	19.5 (17.9-21.3)	5.1 (3.0-8.8)	195.5 (173.8-220.0)	8.4 (6.0-11.8)	6.3 (4.1-9.7)	11.4 (9.9-13.3)
March 14-20, 2021	21.1 (19.4-23.0)	4.7 (2.7-8.3)	155.6 (136.3-177.6)	9.6 (7.0-13.2)	12.4 (9.1-16.8)	16.3 (14.4-18.5)
March 21-27, 2021	18.1 (16.6-19.8)	4.3 (2.4-7.8)	135.3 (117.4-156.0)	7.4 (5.2-10.6)	6.3 (4.1-9.7)	15.1 (13.2-17.2)
March 28-April 3, 2021	19.0 (17.4-20.7)	2.4 (1.1-5.2)	155.6 (136.2-177.6)	4.2 (2.6-6.8)	14.5 (10.9-19.2)	13.9 (12.1-15.9)



<b>Week</b>	<b>Overall</b>	<b>Interlake-Eastern</b>	<b>Northern</b>	<b>Southern</b>	<b>Prairie Mountain</b>	<b>Winnipeg</b>
April 4-10, 2021	28.7 (26.7-30.8)	7.5 (4.8-11.7)	167.4 (147.3-190.3)	10.9 (8.1-14.6)	16.3 (12.5-21.3)	26.9 (24.4-29.7)
April 11-17, 2021	35.2 (33.0-37.5)	27.5 (21.8-34.8)	124.1 (106.9-144.0)	18.0 (14.3-22.7)	25.6 (20.7-31.7)	35.2 (32.3-38.3)
April 18-24, 2021	54.3 (51.6-57.2)	34.2 (27.7-42.2)	82.7 (68.9-99.2)	30.9 (25.9-36.8)	45.6 (38.8-53.4)	63.7 (59.8-67.8)
April 25-May 1, 2021	65.0 (62.0-68.1)	39.7 (32.7-48.3)	56.1 (45.0-70.1)	32.1 (27.0-38.1)	60.4 (52.6-69.4)	80.0 (75.6-84.6)
May 2-8, 2021	96.9 (93.2-100.7)	54.3 (46.0-64.2)	76.4 (63.1-92.4)	54.1 (47.4-61.8)	60.2 (52.4-69.1)	124.9 (119.4-130.7)
May 9-15, 2021	109.1 (105.2-113.2)	93.4 (82.2-106.1)	97.4 (82.3-115.3)	86.3 (77.7-95.9)	55.4 (47.9-64.0)	130.1 (124.4-136.0)
May 16-22, 2021	105.1 (101.3-109.1)	67.5 (58.1-78.4)	106.3 (90.4-124.9)	86.2 (77.6-95.8)	59.4 (51.6-68.3)	126.0 (120.4-131.8)
May 23-29, 2021	75.3 (72.0-78.7)	53.7 (45.4-63.6)	70.3 (57.6-85.7)	66.3 (58.8-74.7)	47.6 (40.7-55.7)	87.6 (83.0-92.5)

**Supplementary Table 20 Weekly test positivity (%) for COVID-19 (95% confidence interval) according to gender**

<b>Week</b>	<b>Overall</b>	<b>Male</b>	<b>Female</b>
March 8-14, 2020	0.4 (0.2-0.8)	0.6 (0.3-1.3)	0.3 (0.1-0.8)
March 15-21, 2020	1.0 (0.7-1.4)	1.3 (0.8-2.0)	0.8 (0.5-1.3)
March 22-28, 2020	3.2 (2.6-4.0)	3.4 (2.5-4.7)	3.1 (2.4-4.1)
March 29-April 4, 2020	1.2 (0.9-1.6)	2.3 (1.6-3.4)	0.8 (0.5-1.2)
April 5-11, 2020	0.7 (0.5-1.1)	1.4 (0.8-2.4)	0.4 (0.2-0.9)
April 12-18, 2020	0.6 (0.3-1.0)	0.5 (0.2-1.2)	0.7 (0.3-1.3)
April 19-25, 2020	0.5 (0.3-0.9)	0.5 (0.2-1.1)	0.5 (0.3-1.0)
April 26-May 2, 2020	0.2 (0.1-0.4)	0.3 (0.1-0.7)	0.1 (0.0-0.4)
May 3-9, 2020	0.2 (0.1-0.4)	0.2 (0.1-0.7)	0.2 (0.1-0.5)
May 10-16, 2020	0.0 (0.0-0.2)	0.1 (0.0-0.5)	0.0 (0.0-0.2)
May 17-23, 2020	0.1 (0.0-0.2)	0.1 (0.0-0.4)	0.0 (0.0-0.3)
May 24-30, 2020	0.1 (0.1-0.3)	0.3 (0.1-0.6)	0.0 (0.0-0.1)
May 31-June 6, 2020	0.0 (0.0-0.2)	0.1 (0.0-0.4)	0.0 (0.0-0.2)
June 7-13, 2020	0.1 (0.1-0.3)	0.3 (0.1-0.7)	0.0 (0.0-0.2)
June 14-20, 2020	0.2 (0.1-0.4)	0.3 (0.1-0.7)	0.2 (0.1-0.5)
June 21-27, 2020	0.2 (0.1-0.4)	0.3 (0.2-0.7)	0.1 (0.0-0.4)
June 28-July 4, 2020	0.0 (0.0-0.1)	0.0 (0.0-0.3)	0.0 (0.0-0.2)
July 5-11, 2020	0.1 (0.0-0.3)	0.1 (0.0-0.4)	0.1 (0.0-0.4)
July 12-18, 2020	0.8 (0.6-1.1)	0.6 (0.3-1.0)	1.0 (0.7-1.4)
July 19-25, 2020	0.3 (0.2-0.5)	0.4 (0.2-0.7)	0.2 (0.1-0.4)
July 26-August 1, 2020	0.4 (0.3-0.6)	0.5 (0.3-0.8)	0.4 (0.3-0.7)
August 2-8, 2020	1.2 (1.0-1.4)	1.6 (1.3-2.0)	0.9 (0.7-1.2)
August 9-15, 2020	1.8 (1.5-2.0)	2.2 (1.8-2.6)	1.4 (1.2-1.8)
August 16-22, 2020	2.7 (2.4-3.0)	3.0 (2.5-3.6)	2.5 (2.1-2.9)
August 23-29, 2020	1.8 (1.5-2.1)	1.8 (1.4-2.3)	1.8 (1.5-2.2)
August 30-September 5, 2020	1.2 (1.0-1.4)	1.3 (1.0-1.8)	1.0 (0.8-1.3)
September 6-12, 2020	1.3 (1.1-1.6)	1.3 (1.0-1.8)	1.3 (1.0-1.7)
September 13-19, 2020	2.2 (1.9-2.5)	2.3 (1.8-2.7)	2.1 (1.8-2.5)
September 20-26, 2020	1.9 (1.7-2.2)	2.2 (1.8-2.6)	1.7 (1.4-2.0)
September 27-October 3, 2020	2.3 (2.0-2.5)	2.3 (1.9-2.7)	2.2 (1.9-2.6)
October 4-10, 2020	3.5 (3.2-3.9)	3.8 (3.3-4.3)	3.3 (2.9-3.8)
October 11-17, 2020	4.6 (4.3-5.0)	5.6 (5.1-6.3)	3.8 (3.4-4.3)
October 18-24, 2020	7.8 (7.3-8.2)	8.3 (7.6-9.0)	7.3 (6.8-7.9)
October 25-31, 2020	8.4 (8.0-8.9)	9.4 (8.7-10.0)	7.7 (7.2-8.2)
November 1-7, 2020	9.3 (8.9-9.8)	10.3 (9.7-11.0)	8.5 (7.9-9.0)
November 8-14, 2020	12.7 (12.1-13.2)	13.9 (13.1-14.8)	11.6 (10.9-12.3)
November 15-21, 2020	12.9 (12.4-13.4)	13.4 (12.6-14.2)	12.5 (11.8-13.2)
November 22-28, 2020	12.6 (12.1-13.2)	13.0 (12.2-13.9)	12.3 (11.6-13.0)
November 29-December 5, 2020	13.5 (12.9-14.1)	14.2 (13.3-15.2)	12.8 (12.1-13.7)
December 6-12, 2020	12.1 (11.6-12.7)	13.8 (12.9-14.8)	10.8 (10.0-11.5)
December 13-19, 2020	11.0 (10.4-11.6)	12.2 (11.3-13.1)	10.0 (9.3-10.8)
December 20-26, 2020	10.5 (9.9-11.2)	11.8 (10.8-13.0)	9.4 (8.5-10.3)
December 27, 2020-January 2, 2021	10.1 (9.5-10.8)	10.4 (9.4-11.5)	9.9 (9.0-10.8)
January 3-9, 2021	10.2 (9.6-10.8)	10.6 (9.7-11.6)	9.9 (9.1-10.7)
January 10-16, 2021	9.8 (9.2-10.4)	10.7 (9.8-11.6)	9.1 (8.3-9.9)
January 17-23, 2021	9.5 (8.9-10.1)	10.1 (9.3-11.1)	8.9 (8.1-9.7)
January 24-30, 2021	6.9 (6.4-7.5)	7.7 (6.9-8.5)	6.3 (5.7-7.0)
January 31-February 6, 2021	4.9 (4.5-5.4)	5.0 (4.3-5.7)	4.9 (4.3-5.5)
February 7-13, 2021	5.4 (4.9-5.9)	5.8 (5.1-6.6)	5.0 (4.4-5.6)
February 14-20, 2021	4.8 (4.4-5.3)	4.9 (4.3-5.6)	4.8 (4.2-5.4)
February 21-27, 2021	3.4 (3.1-3.8)	3.7 (3.2-4.3)	3.2 (2.7-3.7)
February 28-March 6, 2021	3.3 (2.9-3.7)	3.3 (2.8-3.9)	3.2 (2.7-3.7)
March 7-13, 2021	4.6 (4.2-5.0)	4.9 (4.3-5.6)	4.3 (3.8-4.9)
March 14-20, 2021	4.6 (4.2-5.1)	5.2 (4.6-5.9)	4.1 (3.6-4.7)
March 21-27, 2021	3.7 (3.4-4.1)	4.1 (3.6-4.7)	3.4 (2.9-3.9)
March 28-April 3, 2021	4.5 (4.1-5.0)	5.0 (4.4-5.7)	4.2 (3.6-4.8)

<b>Week</b>	<b>Overall</b>	<b>Male</b>	<b>Female</b>
April 4-10, 2021	5.3 (4.9-5.8)	5.7 (5.1-6.4)	5.0 (4.5-5.6)
April 11-17, 2021	5.4 (5.0-5.8)	5.5 (5.0-6.1)	5.2 (4.8-5.8)
April 18-24, 2021	7.0 (6.6-7.4)	7.8 (7.3-8.5)	6.3 (5.8-6.8)
April 25-May 1, 2021	7.4 (7.0-7.7)	8.2 (7.6-8.8)	6.7 (6.2-7.2)
May 2-8, 2021	10.8 (10.4-11.3)	12.0 (11.3-12.7)	9.9 (9.3-10.5)
May 9-15, 2021	12.1 (11.7-12.6)	12.5 (11.9-13.3)	11.8 (11.1-12.4)
May 16-22, 2021	13.2 (12.7-13.7)	14.0 (13.2-14.8)	12.5 (11.8-13.2)
May 23-29, 2021	11.6 (11.0-12.1)	12.8 (11.9-13.6)	10.6 (9.9-11.3)

**Supplementary Table 21 Weekly test positivity (%) for COVID-19 (95% confidence interval) according to age**

Week	Overall	<10	10-17	18-29	30-49	50-64	≥65
March 8-14, 2020	0.4 (0.2-0.8)	0.0 (0.0-1.6)	0.0 (0.0-3.8)	0.0 (0.0-1.0)	0.4 (0.1-1.1)	0.2 (0.0-1.2)	1.8 (0.9-3.8)
March 15-21, 2020	1.0 (0.7-1.4)	0.0 (0.0-1.6)	0.0 (0.0-4.4)	2.9 (1.7-4.7)	1.2 (0.7-2.0)	0.3 (0.1-1.0)	0.6 (0.2-1.8)
March 22-28, 2020	3.2 (2.6-4.0)	2.9 (0.9-9.0)	0.0 (0.0-10.0)	4.0 (2.5-6.4)	2.2 (1.5-3.3)	4.6 (3.3-6.4)	2.9 (1.7-4.9)
March 29-April 4, 2020	1.2 (0.9-1.6)	1.1 (0.1-7.6)	0.0 (0.0-9.2)	1.4 (0.7-2.7)	0.9 (0.5-1.5)	1.5 (0.9-2.6)	1.7 (0.9-3.2)
April 5-11, 2020	0.7 (0.5-1.1)	0.0 (0.0-4.3)	2.9 (0.4-20.9)	1.0 (0.4-2.5)	0.5 (0.2-1.1)	0.7 (0.3-1.7)	1.2 (0.5-2.8)
April 12-18, 2020	0.6 (0.3-1.0)	0.0 (0.0-4.4)	0.0 (0.0-9.0)	1.4 (0.6-3.3)	0.5 (0.2-1.3)	0.2 (0.0-1.3)	0.8 (0.2-2.3)
April 19-25, 2020	0.5 (0.3-0.9)	0.0 (0.0-3.3)	0.0 (0.0-4.1)	0.4 (0.1-1.6)	0.9 (0.4-1.7)	0.0 (0.0-0.6)	1.0 (0.4-2.6)
April 26-May 2, 2020	0.2 (0.1-0.4)	0.0 (0.0-2.5)	0.0 (0.0-3.1)	0.2 (0.0-1.2)	0.3 (0.1-0.8)	0.0 (0.0-0.4)	0.3 (0.1-1.1)
May 3-9, 2020	0.2 (0.1-0.4)	0.6 (0.1-4.6)	0.0 (0.0-3.7)	0.4 (0.1-1.7)	0.3 (0.1-0.9)	0.0 (0.0-0.5)	0.0 (0.0-0.6)
May 10-16, 2020	0.0 (0.0-0.2)	0.0 (0.0-1.9)	0.0 (0.0-3.1)	0.0 (0.0-0.7)	0.1 (0.0-0.6)	0.0 (0.0-0.4)	0.0 (0.0-0.4)
May 17-23, 2020	0.1 (0.0-0.2)	0.5 (0.1-3.5)	0.0 (0.0-2.9)	0.0 (0.0-0.6)	0.1 (0.0-0.7)	0.0 (0.0-0.4)	0.0 (0.0-0.4)
May 24-30, 2020	0.1 (0.1-0.3)	0.0 (0.0-1.6)	0.0 (0.0-2.8)	0.3 (0.1-1.2)	0.2 (0.0-0.6)	0.2 (0.0-0.7)	0.0 (0.0-0.3)
May 31-June 6, 2020	0.0 (0.0-0.2)	0.0 (0.0-1.5)	0.0 (0.0-2.4)	0.2 (0.0-1.1)	0.1 (0.0-0.6)	0.0 (0.0-0.4)	0.0 (0.0-0.3)
June 7-13, 2020	0.1 (0.1-0.3)	0.0 (0.0-1.8)	0.7 (0.1-5.2)	0.1 (0.0-1.0)	0.3 (0.1-0.9)	0.0 (0.0-0.4)	0.0 (0.0-0.4)
June 14-20, 2020	0.2 (0.1-0.4)	0.0 (0.0-2.1)	0.0 (0.0-3.2)	0.2 (0.0-1.2)	0.4 (0.2-1.1)	0.3 (0.1-1.1)	0.0 (0.0-0.4)
June 21-27, 2020	0.2 (0.1-0.4)	0.0 (0.0-1.6)	0.0 (0.0-2.4)	0.3 (0.1-1.2)	0.5 (0.2-1.1)	0.1 (0.0-0.9)	0.0 (0.0-0.4)
June 28-July 4, 2020	0.0 (0.0-0.1)	0.0 (0.0-1.8)	0.0 (0.0-3.0)	0.0 (0.0-0.6)	0.0 (0.0-0.4)	0.0 (0.0-0.6)	0.0 (0.0-0.5)
July 5-11, 2020	0.1 (0.0-0.3)	0.0 (0.0-1.1)	0.5 (0.1-3.7)	0.3 (0.1-1.1)	0.1 (0.0-0.6)	0.0 (0.0-0.5)	0.0 (0.0-0.5)
July 12-18, 2020	0.8 (0.6-1.1)	0.0 (0.0-0.7)	0.0 (0.0-1.4)	1.2 (0.7-2.0)	0.7 (0.4-1.3)	1.0 (0.5-2.0)	1.0 (0.5-1.9)
July 19-25, 2020	0.3 (0.2-0.5)	0.3 (0.1-1.1)	0.5 (0.1-2.0)	0.4 (0.2-0.9)	0.2 (0.1-0.5)	0.3 (0.1-0.9)	0.3 (0.1-0.9)
July 26-August 1, 2020	0.4 (0.3-0.6)	0.0 (0.0-0.5)	0.0 (0.0-0.7)	0.4 (0.2-0.8)	0.8 (0.6-1.3)	0.1 (0.0-0.6)	0.4 (0.2-1.0)
August 2-8, 2020	1.2 (1.0-1.4)	0.9 (0.5-1.9)	1.7 (0.9-3.2)	1.4 (1.0-2.0)	1.5 (1.1-2.0)	0.7 (0.3-1.3)	0.5 (0.2-1.1)
August 9-15, 2020	1.8 (1.5-2.0)	2.3 (1.4-3.6)	2.4 (1.4-3.9)	1.3 (0.9-1.8)	2.0 (1.6-2.5)	1.9 (1.3-2.7)	1.2 (0.8-2.0)
August 16-22, 2020	2.7 (2.4-3.0)	1.3 (0.7-2.6)	4.4 (3.0-6.5)	2.7 (2.1-3.4)	2.8 (2.3-3.5)	3.1 (2.3-4.1)	1.8 (1.2-2.7)
August 23-29, 2020	1.8 (1.5-2.1)	1.1 (0.5-2.3)	4.8 (3.3-6.9)	1.7 (1.2-2.4)	1.6 (1.2-2.2)	1.8 (1.3-2.7)	1.3 (0.8-2.2)
August 30-September 5, 2020	1.2 (1.0-1.4)	1.2 (0.6-2.4)	2.1 (1.1-3.9)	1.1 (0.7-1.7)	1.2 (0.8-1.7)	0.9 (0.6-1.6)	1.1 (0.7-1.8)
September 6-12, 2020	1.3 (1.1-1.6)	1.3 (0.7-2.6)	2.0 (1.1-3.8)	1.3 (0.8-2.0)	1.3 (0.9-1.8)	1.5 (1.0-2.3)	0.8 (0.4-1.6)
September 13-19, 2020	2.2 (1.9-2.5)	1.1 (0.7-1.9)	3.4 (2.4-4.7)	5.0 (4.1-6.1)	1.1 (0.8-1.6)	0.9 (0.5-1.6)	2.3 (1.6-3.4)
September 20-26, 2020	1.9 (1.7-2.2)	0.8 (0.5-1.4)	1.6 (1.0-2.6)	2.8 (2.2-3.6)	1.8 (1.4-2.3)	2.0 (1.4-2.9)	2.3 (1.6-3.3)
September 27-October 3, 2020	2.3 (2.0-2.5)	1.1 (0.8-1.7)	1.5 (1.0-2.3)	3.1 (2.5-3.9)	2.0 (1.6-2.5)	3.6 (2.8-4.6)	2.6 (1.9-3.7)
October 4-10, 2020	3.5 (3.2-3.9)	1.6 (1.1-2.3)	2.9 (2.1-4.0)	4.0 (3.2-4.9)	3.4 (2.9-4.0)	4.5 (3.6-5.5)	4.9 (3.9-6.2)
October 11-17, 2020	4.6 (4.3-5.0)	2.8 (2.1-3.7)	4.5 (3.4-5.8)	4.9 (4.1-5.9)	4.8 (4.2-5.5)	5.2 (4.3-6.3)	4.9 (3.9-6.2)
October 18-24, 2020	7.8 (7.3-8.2)	4.8 (3.8-6.0)	8.4 (7.0-10.0)	6.8 (5.9-7.7)	8.0 (7.3-8.8)	8.3 (7.2-9.5)	10.1 (8.7-11.6)
October 25-31, 2020	8.4 (8.0-8.9)	5.6 (4.5-6.8)	10.0 (8.6-11.7)	10.2 (9.3-11.3)	7.4 (6.8-8.1)	9.5 (8.6-10.6)	7.5 (6.5-8.8)
November 1-7, 2020	9.3 (8.9-9.8)	5.8 (4.9-6.9)	8.4 (7.3-9.8)	10.3 (9.4-11.3)	8.4 (7.8-9.2)	10.9 (9.8-12.0)	11.9 (10.6-13.4)
November 8-14, 2020	12.7 (12.1-13.2)	8.9 (7.6-10.4)	10.7 (9.2-12.4)	12.6 (11.5-13.8)	11.8 (10.9-12.8)	13.3 (12.0-14.6)	18.3 (16.6-20.2)
November 15-21, 2020	12.9 (12.4-13.4)	10.4 (9.0-12.1)	13.0 (11.3-14.9)	13.2 (12.1-14.5)	11.7 (10.8-12.6)	13.2 (12.0-14.6)	16.4 (14.9-18.0)
November 22-28, 2020	12.6 (12.1-13.2)	9.7 (8.2-11.5)	14.1 (12.2-16.3)	12.1 (10.9-13.3)	12.0 (11.1-13.0)	12.8 (11.5-14.2)	15.2 (13.7-16.8)
November 29-December 5, 2020	13.5 (12.9-14.1)	11.7 (10.0-13.7)	15.5 (13.3-17.9)	13.5 (12.2-15.0)	11.9 (11.0-13.0)	14.6 (13.2-16.2)	15.4 (13.8-17.1)
December 6-12, 2020	12.1 (11.6-12.7)	12.2 (10.4-14.3)	13.4 (11.4-15.8)	13.4 (12.1-14.9)	10.9 (9.9-12.0)	11.5 (10.2-12.9)	12.9 (11.5-14.6)
December 13-19, 2020	11.0 (10.4-11.6)	12.2 (10.2-14.6)	14.0 (11.6-16.7)	10.4 (9.2-11.7)	10.1 (9.1-11.1)	10.8 (9.6-12.3)	11.7 (10.3-13.2)
December 20-26, 2020	10.5 (9.9-11.2)	12.8 (10.2-16.0)	19.7 (16.2-24.0)	11.3 (9.8-13.0)	9.4 (8.3-10.7)	9.8 (8.4-11.6)	8.1 (6.8-9.6)
December 27, 2020-January 2, 2021	10.1 (9.5-10.8)	10.8 (8.3-14.1)	16.3 (13.1-20.3)	9.1 (7.8-10.7)	9.2 (8.0-10.5)	11.3 (9.8-13.2)	9.3 (7.9-11.0)
January 3-9, 2021	10.2 (9.6-10.8)	14.1 (11.8-17.0)	17.8 (14.8-21.5)	11.0 (9.6-12.5)	9.4 (8.4-10.6)	9.3 (8.0-10.8)	7.3 (6.1-8.6)
January 10-16, 2021	9.8 (9.2-10.4)	14.5 (12.3-17.1)	19.4 (16.4-23.0)	9.0 (7.8-10.5)	9.3 (8.2-10.4)	8.5 (7.3-10.0)	6.5 (5.4-7.8)
January 17-23, 2021	9.5 (8.9-10.1)	15.4 (13.2-17.9)	17.7 (14.9-20.9)	9.5 (8.2-10.9)	8.1 (7.1-9.2)	8.2 (6.9-9.6)	4.9 (3.9-6.1)
January 24-30, 2021	6.9 (6.4-7.5)	10.0 (8.3-12.1)	10.8 (8.7-13.5)	9.3 (8.0-10.9)	5.6 (4.8-6.5)	5.9 (4.9-7.2)	3.6 (2.8-4.6)
January 31-February 6, 2021	4.9 (4.5-5.4)	6.6 (5.3-8.4)	7.2 (5.3-9.6)	6.1 (5.0-7.4)	4.1 (3.4-4.9)	3.8 (2.9-4.9)	3.9 (3.1-5.0)
February 7-13, 2021	5.4 (4.9-5.9)	8.2 (6.7-10.1)	10.6 (8.3-13.6)	6.1 (5.0-7.4)	4.7 (4.0-5.6)	4.5 (3.6-5.7)	2.6 (1.9-3.6)
February 14-20, 2021	4.8 (4.4-5.3)	7.1 (5.7-8.8)	7.1 (5.3-9.4)	5.8 (4.8-7.1)	4.2 (3.5-5.1)	4.0 (3.1-5.2)	3.0 (2.3-4.0)
February 21-27, 2021	3.4 (3.1-3.8)	4.5 (3.4-5.8)	7.1 (5.3-9.5)	4.2 (3.3-5.4)	3.1 (2.5-3.8)	2.4 (1.7-3.3)	1.9 (1.3-2.7)
February 28-March 6, 2021	3.3 (2.9-3.7)	2.9 (2.2-3.9)	4.9 (3.4-6.9)	4.8 (3.8-6.0)	2.8 (2.3-3.6)	3.0 (2.2-4.0)	2.2 (1.6-3.1)
March 7-13, 2021	4.6 (4.2-5.0)	5.6 (4.5-6.9)	7.7 (5.9-10.1)	5.4 (4.4-6.7)	4.3 (3.6-5.1)	4.2 (3.3-5.4)	2.3 (1.6-3.1)
March 14-20, 2021	4.6 (4.2-5.1)	5.8 (4.7-7.1)	7.3 (5.7-9.4)	5.4 (4.4-6.7)	4.7 (4.0-5.6)	4.1 (3.2-5.2)	1.4 (1.0-2.2)
March 21-27, 2021	3.7 (3.4-4.1)	3.6 (2.8-4.7)	7.0 (5.5-8.9)	5.0 (4.1-6.2)	2.9 (2.4-3.6)	3.1 (2.4-4.1)	2.4 (1.7-3.2)
March 28-April 3, 2021	4.5 (4.1-5.0)	5.7 (4.4-7.3)	10.3 (8.0-13.2)	5.0 (4.1-6.2)	4.0 (3.3-4.8)	4.0 (3.1-5.1)	2.3 (1.6-3.2)
April 4-10, 2021	5.3 (4.9-5.8)	4.6 (3.6-5.8)	8.4 (6.8-10.3)	7.4 (6.4-8.6)	4.7 (4.0-5.5)	5.1 (4.2-6.3)	3.0 (2.2-3.9)

<b>Week</b>	<b>Overall</b>	<b>&lt;10</b>	<b>10-17</b>	<b>18-29</b>	<b>30-49</b>	<b>50-64</b>	<b>≥65</b>
April 11-17, 2021	5.4 (5.0-5.8)	5.4 (4.5-6.5)	6.4 (5.2-7.8)	7.2 (6.3-8.3)	5.1 (4.5-5.8)	4.7 (3.9-5.7)	3.4 (2.6-4.4)
April 18-24, 2021	7.0 (6.6-7.4)	7.4 (6.5-8.5)	9.9 (8.6-11.4)	8.1 (7.2-9.2)	6.6 (5.9-7.3)	6.9 (6.0-7.9)	3.1 (2.4-4.1)
April 25-May 1, 2021	7.4 (7.0-7.7)	7.2 (6.3-8.1)	8.6 (7.5-9.8)	9.0 (8.1-10.1)	7.4 (6.7-8.1)	6.9 (6.0-7.9)	3.7 (2.9-4.6)
May 2-8, 2021	10.8 (10.4-11.3)	10.8 (9.8-11.9)	11.2 (9.9-12.7)	13.7 (12.6-15.0)	11.1 (10.3-12.0)	10.6 (9.4-11.9)	4.6 (3.8-5.7)
May 9-15, 2021	12.1 (11.7-12.6)	9.6 (8.6-10.8)	14.6 (13.1-16.3)	15.6 (14.4-16.8)	12.4 (11.5-13.3)	11.4 (10.2-12.7)	6.2 (5.2-7.4)
May 16-22, 2021	13.2 (12.7-13.7)	11.7 (10.5-13.1)	16.2 (14.4-18.2)	15.8 (14.6-17.0)	13.5 (12.6-14.5)	12.3 (11.1-13.7)	7.7 (6.6-9.0)
May 23-29, 2021	11.6 (11.0-12.1)	12.1 (10.6-13.7)	15.4 (13.5-17.6)	13.7 (12.5-15.1)	11.7 (10.8-12.8)	9.3 (8.2-10.6)	6.9 (5.8-8.2)

**Supplementary Table 22 Weekly test positivity (%) for COVID-19 (95% confidence interval) according to income quintile**

<b>Week</b>	<b>Overall</b>	<b>Q1 (lowest)</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5 (highest)</b>
March 8-14, 2020	0.4 (0.2-0.8)	0.3 (0.0-2.0)	0.5 (0.1-2.1)	0.4 (0.1-1.6)	0.6 (0.2-1.7)	0.5 (0.1-1.4)
March 15-21, 2020	1.0 (0.7-1.4)	0.6 (0.2-1.9)	0.3 (0.1-1.4)	0.8 (0.3-1.9)	1.3 (0.7-2.5)	1.5 (0.9-2.5)
March 22-28, 2020	3.2 (2.6-4.0)	1.8 (0.8-3.7)	1.8 (0.9-3.4)	2.8 (1.7-4.7)	4.2 (2.8-6.2)	5.1 (3.7-7.1)
March 29-April 4, 2020	1.2 (0.9-1.6)	1.0 (0.5-2.0)	0.8 (0.4-1.8)	0.9 (0.4-1.9)	1.3 (0.7-2.4)	2.3 (1.4-3.7)
April 5-11, 2020	0.7 (0.5-1.1)	0.7 (0.3-1.9)	0.2 (0.0-1.3)	1.7 (0.9-3.3)	0.6 (0.2-2.0)	0.6 (0.2-1.9)
April 12-18, 2020	0.6 (0.3-1.0)	0.7 (0.2-2.1)	0.9 (0.3-2.3)	0.5 (0.1-2.0)	0.7 (0.2-2.2)	0.3 (0.0-1.8)
April 19-25, 2020	0.5 (0.3-0.9)	0.7 (0.3-1.9)	0.2 (0.0-1.2)	1.4 (0.7-3.0)	0.0 (0.0-0.8)	0.4 (0.1-1.8)
April 26-May 2, 2020	0.2 (0.1-0.4)	0.6 (0.2-1.5)	0.1 (0.0-1.1)	0.1 (0.0-1.0)	0.0 (0.0-0.6)	0.0 (0.0-0.5)
May 3-9, 2020	0.2 (0.1-0.4)	0.0 (0.0-0.5)	0.0 (0.0-0.6)	0.7 (0.2-1.8)	0.3 (0.1-1.4)	0.0 (0.0-0.7)
May 10-16, 2020	0.0 (0.0-0.2)	0.0 (0.0-0.5)	0.1 (0.0-1.0)	0.0 (0.0-0.5)	0.0 (0.0-0.5)	0.0 (0.0-0.6)
May 17-23, 2020	0.1 (0.0-0.2)	0.0 (0.0-0.5)	0.3 (0.1-1.1)	0.0 (0.0-0.5)	0.0 (0.0-0.5)	0.0 (0.0-0.5)
May 24-30, 2020	0.1 (0.1-0.3)	0.0 (0.0-0.4)	0.4 (0.2-1.1)	0.2 (0.1-0.9)	0.0 (0.0-0.4)	0.0 (0.0-0.4)
May 31-June 6, 2020	0.0 (0.0-0.2)	0.0 (0.0-0.4)	0.0 (0.0-0.4)	0.1 (0.0-0.8)	0.0 (0.0-0.5)	0.1 (0.0-0.9)
June 7-13, 2020	0.1 (0.1-0.3)	0.0 (0.0-0.5)	0.3 (0.1-1.0)	0.0 (0.0-0.5)	0.0 (0.0-0.5)	0.3 (0.1-1.2)
June 14-20, 2020	0.2 (0.1-0.4)	0.1 (0.0-0.9)	0.0 (0.0-0.6)	0.2 (0.0-1.1)	0.5 (0.2-1.5)	0.4 (0.1-1.5)
June 21-27, 2020	0.2 (0.1-0.4)	0.2 (0.1-1.0)	0.0 (0.0-0.5)	0.4 (0.1-1.2)	0.4 (0.1-1.2)	0.1 (0.0-1.0)
June 28-July 4, 2020	0.0 (0.0-0.1)	0.0 (0.0-0.5)	0.0 (0.0-0.6)	0.0 (0.0-0.6)	0.0 (0.0-0.6)	0.0 (0.0-0.7)
July 5-11, 2020	0.1 (0.0-0.3)	0.0 (0.0-0.5)	0.1 (0.0-0.9)	0.1 (0.0-0.9)	0.1 (0.0-0.9)	0.0 (0.0-0.6)
July 12-18, 2020	0.8 (0.6-1.1)	0.1 (0.0-0.8)	0.7 (0.3-1.5)	0.4 (0.1-1.0)	0.2 (0.0-0.8)	0.5 (0.2-1.2)
July 19-25, 2020	0.3 (0.2-0.5)	0.5 (0.2-1.0)	0.4 (0.2-0.9)	0.3 (0.1-0.8)	0.2 (0.1-0.7)	0.1 (0.0-0.6)
July 26-August 1, 2020	0.4 (0.3-0.6)	0.4 (0.2-0.9)	0.9 (0.5-1.5)	0.3 (0.1-0.7)	0.6 (0.3-1.2)	0.0 (0.0-0.2)
August 2-8, 2020	1.2 (1.0-1.4)	1.1 (0.7-1.8)	2.3 (1.7-3.2)	0.7 (0.4-1.2)	0.8 (0.5-1.4)	1.2 (0.8-1.9)
August 9-15, 2020	1.8 (1.5-2.0)	2.2 (1.6-3.0)	1.9 (1.4-2.6)	1.2 (0.8-1.8)	1.4 (0.9-2.0)	2.2 (1.7-3.0)
August 16-22, 2020	2.7 (2.4-3.0)	1.7 (1.2-2.5)	1.6 (1.1-2.3)	2.9 (2.3-3.8)	4.9 (4.0-5.9)	2.2 (1.6-3.0)
August 23-29, 2020	1.8 (1.5-2.1)	1.9 (1.3-2.7)	1.5 (1.0-2.2)	2.1 (1.5-2.9)	2.0 (1.4-2.7)	1.5 (1.0-2.2)
August 30-September 5, 2020	1.2 (1.0-1.4)	2.0 (1.5-2.9)	0.8 (0.5-1.4)	0.6 (0.3-1.1)	1.2 (0.8-1.9)	1.3 (0.8-1.9)
September 6-12, 2020	1.3 (1.1-1.6)	2.1 (1.4-3.0)	2.2 (1.5-3.0)	0.7 (0.4-1.3)	1.2 (0.7-1.9)	0.5 (0.3-1.1)
September 13-19, 2020	2.2 (1.9-2.5)	2.6 (2.0-3.4)	2.1 (1.6-2.9)	1.3 (0.9-2.0)	2.0 (1.5-2.8)	2.6 (2.0-3.4)
September 20-26, 2020	1.9 (1.7-2.2)	3.3 (2.5-4.2)	1.9 (1.4-2.5)	1.6 (1.2-2.2)	1.2 (0.9-1.8)	1.7 (1.3-2.3)
September 27-October 3, 2020	2.3 (2.0-2.5)	4.6 (3.8-5.5)	1.6 (1.2-2.2)	1.5 (1.1-2.0)	1.6 (1.2-2.2)	1.8 (1.4-2.4)
October 4-10, 2020	3.5 (3.2-3.9)	5.5 (4.6-6.5)	3.3 (2.6-4.1)	2.7 (2.1-3.4)	3.1 (2.5-3.9)	2.5 (1.9-3.2)
October 11-17, 2020	4.6 (4.3-5.0)	6.7 (5.8-7.8)	4.5 (3.7-5.4)	3.3 (2.6-4.1)	4.3 (3.5-5.2)	3.9 (3.2-4.7)
October 18-24, 2020	7.8 (7.3-8.2)	11.0 (9.9-12.2)	7.4 (6.5-8.5)	6.4 (5.6-7.4)	6.8 (5.9-7.8)	6.1 (5.2-7.0)
October 25-31, 2020	8.4 (8.0-8.9)	12.4 (11.3-13.5)	6.6 (5.9-7.5)	7.2 (6.4-8.1)	8.4 (7.5-9.4)	7.6 (6.7-8.5)
November 1-7, 2020	9.3 (8.9-9.8)	11.6 (10.6-12.7)	8.2 (7.3-9.1)	8.2 (7.4-9.2)	9.8 (8.9-10.8)	8.2 (7.4-9.1)
November 8-14, 2020	12.7 (12.1-13.2)	14.8 (13.5-16.2)	13.1 (12.0-14.4)	11.0 (10.0-12.2)	13.9 (12.7-15.2)	9.4 (8.4-10.5)
November 15-21, 2020	12.9 (12.4-13.4)	17.0 (15.7-18.4)	13.1 (12.0-14.3)	11.3 (10.2-12.5)	12.7 (11.6-14.0)	9.9 (8.8-11.1)
November 22-28, 2020	12.6 (12.1-13.2)	16.0 (14.7-17.3)	12.3 (11.1-13.5)	10.8 (9.7-12.0)	12.7 (11.5-14.0)	9.2 (8.1-10.4)
November 29-December 5, 2020	13.5 (12.9-14.1)	19.0 (17.6-20.6)	13.6 (12.3-15.0)	11.5 (10.2-12.9)	10.9 (9.6-12.2)	8.7 (7.5-10.0)
December 6-12, 2020	12.1 (11.6-12.7)	17.4 (16.1-18.9)	12.0 (10.8-13.4)	8.0 (6.9-9.2)	9.6 (8.4-10.9)	8.9 (7.8-10.3)
December 13-19, 2020	11.0 (10.4-11.6)	14.3 (13.0-15.7)	11.6 (10.4-13.0)	9.2 (7.9-10.6)	10.2 (8.9-11.6)	7.6 (6.5-8.8)
December 20-26, 2020	10.5 (9.9-11.2)	13.3 (11.9-15.0)	10.3 (8.9-12.0)	10.2 (8.7-12.1)	9.2 (7.8-11.0)	7.7 (6.4-9.3)
December 27, 2020-January 2, 2021	10.1 (9.5-10.8)	12.2 (10.7-13.8)	10.9 (9.4-12.6)	7.9 (6.6-9.4)	9.0 (7.6-10.7)	8.9 (7.4-10.7)
January 3-9, 2021	10.2 (9.6-10.8)	11.1 (9.9-12.5)	10.6 (9.2-12.1)	8.7 (7.4-10.2)	12.0 (10.5-13.6)	7.6 (6.3-9.0)
January 10-16, 2021	9.8 (9.2-10.4)	15.2 (13.8-16.8)	10.0 (8.8-11.4)	5.4 (4.3-6.6)	8.9 (7.6-10.4)	6.2 (5.1-7.5)
January 17-23, 2021	9.5 (8.9-10.1)	15.0 (13.6-16.5)	10.8 (9.5-12.3)	5.4 (4.4-6.7)	5.1 (4.1-6.4)	6.6 (5.5-8.0)
January 24-30, 2021	6.9 (6.4-7.5)	12.4 (11.1-13.9)	6.5 (5.5-7.8)	3.5 (2.7-4.5)	4.8 (3.9-6.0)	4.6 (3.6-5.7)
January 31-February 6, 2021	4.9 (4.5-5.4)	7.8 (6.7-9.1)	4.4 (3.5-5.4)	3.3 (2.6-4.4)	3.6 (2.8-4.7)	5.2 (4.2-6.4)
February 7-13, 2021	5.4 (4.9-5.9)	7.6 (6.5-8.8)	5.3 (4.3-6.6)	3.7 (2.8-4.8)	3.6 (2.8-4.7)	6.3 (5.2-7.6)
February 14-20, 2021	4.8 (4.4-5.3)	8.5 (7.4-9.7)	4.0 (3.2-5.1)	3.1 (2.4-4.1)	2.9 (2.2-3.9)	4.0 (3.2-5.1)
February 21-27, 2021	3.4 (3.1-3.8)	6.0 (5.0-7.1)	3.5 (2.8-4.5)	2.1 (1.5-3.0)	1.9 (1.3-2.7)	3.1 (2.4-4.0)
February 28-March 6, 2021	3.3 (2.9-3.7)	6.8 (5.8-7.9)	3.4 (2.7-4.4)	1.6 (1.1-2.4)	1.9 (1.3-2.7)	1.8 (1.2-2.5)
March 7-13, 2021	4.6 (4.2-5.0)	8.5 (7.5-9.8)	4.2 (3.3-5.2)	2.4 (1.8-3.3)	4.1 (3.2-5.2)	2.6 (1.9-3.5)
March 14-20, 2021	4.6 (4.2-5.1)	9.3 (8.2-10.5)	2.4 (1.8-3.2)	3.3 (2.6-4.2)	3.5 (2.7-4.4)	2.7 (2.1-3.6)
March 21-27, 2021	3.7 (3.4-4.1)	6.6 (5.7-7.7)	3.6 (2.8-4.4)	2.7 (2.1-3.6)	2.6 (1.9-3.4)	2.3 (1.7-3.1)
March 28-April 3, 2021	4.5 (4.1-5.0)	7.4 (6.4-8.6)	4.1 (3.2-5.1)	3.2 (2.5-4.2)	4.0 (3.2-5.1)	3.4 (2.6-4.5)

<b>Week</b>	<b>Overall</b>	<b>Q1 (lowest)</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5 (highest)</b>
April 4-10, 2021	5.3 (4.9-5.8)	6.1 (5.2-7.2)	5.2 (4.4-6.2)	5.3 (4.4-6.4)	5.6 (4.7-6.6)	4.4 (3.6-5.4)
April 11-17, 2021	5.4 (5.0-5.8)	7.3 (6.5-8.3)	4.6 (3.9-5.5)	5.2 (4.4-6.1)	5.8 (5.0-6.9)	4.1 (3.4-4.9)
April 18-24, 2021	7.0 (6.6-7.4)	9.3 (8.3-10.3)	6.2 (5.5-7.1)	7.1 (6.3-8.1)	6.5 (5.7-7.5)	5.5 (4.8-6.4)
April 25-May 1, 2021	7.4 (7.0-7.7)	10.0 (9.0-11.0)	7.2 (6.5-8.1)	8.1 (7.2-9.0)	6.6 (5.8-7.5)	5.0 (4.3-5.7)
May 2-8, 2021	10.8 (10.4-11.3)	13.7 (12.6-14.8)	10.8 (9.8-11.8)	10.9 (9.9-12.0)	8.9 (7.9-9.9)	8.7 (7.8-9.7)
May 9-15, 2021	12.1 (11.7-12.6)	14.8 (13.7-16.0)	13.4 (12.3-14.5)	12.3 (11.2-13.4)	10.6 (9.6-11.7)	8.8 (7.9-9.9)
May 16-22, 2021	13.2 (12.7-13.7)	17.5 (16.3-18.8)	14.3 (13.2-15.6)	12.7 (11.6-13.9)	10.2 (9.2-11.4)	9.4 (8.4-10.6)
May 23-29, 2021	11.6 (11.0-12.1)	15.3 (14.1-16.7)	13.3 (12.1-14.6)	10.0 (8.9-11.2)	10.1 (9.0-11.4)	7.6 (6.6-8.8)

**Supplementary Table 23 Weekly test positivity (%) for COVID-19 (95% confidence interval) according to region**

<b>Week</b>	<b>Overall</b>	<b>Interlake-Eastern</b>	<b>Northern</b>	<b>Southern</b>	<b>Prairie Mountain</b>	<b>Winnipeg</b>
March 8-14, 2020	0.4 (0.2-0.8)	0.5 (0.1-3.2)	0.0 (0.0-2.9)	0.6 (0.2-2.6)	0.0 (0.0-1.6)	0.5 (0.3-1.0)
March 15-21, 2020	1.0 (0.7-1.4)	0.3 (0.0-2.0)	0.0 (0.0-2.4)	0.4 (0.1-1.6)	1.3 (0.5-3.1)	1.3 (0.9-2.0)
March 22-28, 2020	3.2 (2.6-4.0)	1.3 (0.5-3.4)	1.4 (0.3-5.4)	2.7 (1.4-4.9)	0.8 (0.2-3.3)	4.2 (3.4-5.3)
March 29-April 4, 2020	1.2 (0.9-1.6)	1.2 (0.5-2.7)	0.3 (0.0-2.3)	1.1 (0.5-2.7)	0.2 (0.0-1.6)	1.6 (1.2-2.2)
April 5-11, 2020	0.7 (0.5-1.1)	1.5 (0.5-3.9)	0.0 (0.0-1.4)	0.6 (0.2-2.5)	0.3 (0.0-2.5)	0.8 (0.5-1.4)
April 12-18, 2020	0.6 (0.3-1.0)	0.0 (0.0-1.8)	0.0 (0.0-1.6)	0.3 (0.0-2.2)	0.5 (0.1-3.3)	0.9 (0.5-1.6)
April 19-25, 2020	0.5 (0.3-0.9)	0.4 (0.1-2.6)	0.0 (0.0-1.4)	0.5 (0.1-2.1)	0.6 (0.1-2.3)	0.6 (0.3-1.2)
April 26-May 2, 2020	0.2 (0.1-0.4)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.0 (0.0-0.9)	1.1 (0.4-3.0)	0.1 (0.0-0.4)
May 3-9, 2020	0.2 (0.1-0.4)	0.0 (0.0-1.3)	0.0 (0.0-1.4)	0.0 (0.0-1.0)	1.3 (0.5-3.0)	0.1 (0.0-0.4)
May 10-16, 2020	0.0 (0.0-0.2)	0.0 (0.0-1.1)	0.0 (0.0-1.4)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.0 (0.0-0.3)
May 17-23, 2020	0.1 (0.0-0.2)	0.0 (0.0-1.1)	0.0 (0.0-1.3)	0.0 (0.0-0.9)	0.0 (0.0-0.9)	0.1 (0.0-0.4)
May 24-30, 2020	0.1 (0.1-0.3)	0.0 (0.0-0.9)	0.0 (0.0-0.9)	0.7 (0.2-1.7)	0.0 (0.0-0.6)	0.1 (0.0-0.3)
May 31-June 6, 2020	0.0 (0.0-0.2)	0.0 (0.0-0.9)	0.0 (0.0-1.0)	0.0 (0.0-0.6)	0.0 (0.0-0.7)	0.1 (0.0-0.3)
June 7-13, 2020	0.1 (0.1-0.3)	0.0 (0.0-0.9)	0.0 (0.0-1.0)	0.0 (0.0-0.8)	0.0 (0.0-0.8)	0.2 (0.1-0.6)
June 14-20, 2020	0.2 (0.1-0.4)	0.0 (0.0-1.1)	0.0 (0.0-1.1)	0.4 (0.1-1.6)	0.0 (0.0-1.0)	0.3 (0.1-0.6)
June 21-27, 2020	0.2 (0.1-0.4)	0.0 (0.0-0.9)	0.0 (0.0-1.2)	0.3 (0.1-1.3)	0.0 (0.0-0.8)	0.3 (0.2-0.7)
June 28-July 4, 2020	0.0 (0.0-0.1)	0.0 (0.0-1.2)	0.0 (0.0-1.4)	0.0 (0.0-0.7)	0.0 (0.0-1.0)	0.0 (0.0-0.2)
July 5-11, 2020	0.1 (0.0-0.3)	0.2 (0.0-1.7)	0.0 (0.0-1.4)	0.3 (0.1-1.2)	0.0 (0.0-0.8)	0.0 (0.0-0.3)
July 12-18, 2020	0.8 (0.6-1.1)	3.6 (2.4-5.3)	0.0 (0.0-1.2)	0.7 (0.3-1.6)	0.9 (0.4-2.1)	0.2 (0.1-0.4)
July 19-25, 2020	0.3 (0.2-0.5)	0.6 (0.3-1.5)	0.0 (0.0-1.1)	0.7 (0.4-1.4)	0.5 (0.2-1.1)	0.1 (0.0-0.3)
July 26-August 1, 2020	0.4 (0.3-0.6)	0.5 (0.2-1.2)	0.0 (0.0-1.0)	0.8 (0.5-1.5)	1.2 (0.7-1.9)	0.1 (0.0-0.3)
August 2-8, 2020	1.2 (1.0-1.4)	0.2 (0.1-0.9)	0.0 (0.0-1.0)	1.9 (1.4-2.7)	3.7 (2.9-4.7)	0.2 (0.1-0.4)
August 9-15, 2020	1.8 (1.5-2.0)	0.1 (0.0-0.7)	0.0 (0.0-0.7)	3.2 (2.5-4.3)	4.0 (3.2-4.9)	0.8 (0.6-1.1)
August 16-22, 2020	2.7 (2.4-3.0)	0.9 (0.4-1.9)	0.2 (0.0-1.5)	4.5 (3.6-5.6)	8.3 (7.0-9.8)	0.7 (0.5-0.9)
August 23-29, 2020	1.8 (1.5-2.1)	0.9 (0.4-2.0)	0.0 (0.0-0.7)	2.2 (1.5-3.1)	4.5 (3.6-5.7)	1.2 (0.9-1.5)
August 30-September 5, 2020	1.2 (1.0-1.4)	1.2 (0.6-2.4)	0.0 (0.0-0.9)	1.5 (0.9-2.4)	1.1 (0.7-1.8)	1.2 (0.9-1.5)
September 6-12, 2020	1.3 (1.1-1.6)	1.5 (0.8-2.8)	0.6 (0.2-2.0)	1.8 (1.1-3.0)	1.0 (0.5-1.9)	1.3 (1.0-1.7)
September 13-19, 2020	2.2 (1.9-2.5)	1.3 (0.8-2.2)	0.4 (0.1-1.7)	1.6 (1.0-2.4)	1.3 (0.7-2.2)	2.7 (2.3-3.1)
September 20-26, 2020	1.9 (1.7-2.2)	2.3 (1.5-3.5)	2.5 (1.4-4.5)	1.2 (0.8-2.0)	0.6 (0.3-1.3)	2.1 (1.8-2.4)
September 27-October 3, 2020	2.3 (2.0-2.5)	3.3 (2.5-4.4)	0.3 (0.1-1.1)	1.0 (0.6-1.6)	0.4 (0.2-1.0)	2.7 (2.4-3.1)
October 4-10, 2020	3.5 (3.2-3.9)	2.1 (1.5-3.0)	1.2 (0.6-2.4)	3.5 (2.6-4.6)	0.8 (0.4-1.5)	4.3 (3.9-4.8)
October 11-17, 2020	4.6 (4.3-5.0)	4.1 (3.1-5.4)	4.8 (3.5-6.5)	3.2 (2.5-4.2)	1.6 (1.1-2.5)	5.3 (4.9-5.9)
October 18-24, 2020	7.8 (7.3-8.2)	7.8 (6.5-9.4)	6.2 (5.0-7.8)	7.5 (6.4-8.8)	2.4 (1.6-3.4)	8.6 (8.0-9.2)
October 25-31, 2020	8.4 (8.0-8.9)	9.0 (7.7-10.5)	5.9 (4.9-7.2)	9.9 (8.7-11.2)	3.7 (2.9-4.8)	9.1 (8.6-9.7)
November 1-7, 2020	9.3 (8.9-9.8)	6.2 (5.2-7.3)	13.5 (11.6-15.8)	14.1 (12.8-15.6)	4.0 (3.3-5.0)	9.4 (8.8-9.9)
November 8-14, 2020	12.7 (12.1-13.2)	7.6 (6.3-9.1)	15.2 (13.1-17.6)	22.3 (20.5-24.2)	5.7 (4.6-7.0)	11.9 (11.2-12.6)
November 15-21, 2020	12.9 (12.4-13.4)	7.9 (6.7-9.3)	15.8 (13.7-18.2)	19.9 (18.3-21.5)	6.4 (5.4-7.7)	12.6 (12.0-13.3)
November 22-28, 2020	12.6 (12.1-13.2)	9.4 (7.9-11.1)	15.7 (13.6-18.0)	17.1 (15.5-18.9)	5.0 (4.1-6.3)	12.8 (12.1-13.5)
November 29-December 5, 2020	13.5 (12.9-14.1)	11.0 (9.3-12.8)	19.1 (16.9-21.5)	14.2 (12.5-16.2)	8.1 (6.7-9.7)	13.6 (12.9-14.4)
December 6-12, 2020	12.1 (11.6-12.7)	11.3 (9.7-13.2)	20.3 (17.9-23.0)	12.7 (11.0-14.6)	8.7 (7.3-10.5)	11.3 (10.6-12.1)
December 13-19, 2020	11.0 (10.4-11.6)	9.9 (8.2-11.8)	17.2 (15.3-19.5)	13.4 (11.8-15.4)	6.9 (5.5-8.5)	9.9 (9.1-10.6)
December 20-26, 2020	10.5 (9.9-11.2)	11.9 (9.6-14.6)	16.3 (14.0-19.1)	12.7 (10.8-15.0)	6.3 (4.8-8.4)	9.3 (8.5-10.2)
December 27, 2020-January 2, 2021	10.1 (9.5-10.8)	7.2 (5.6-9.4)	16.6 (14.1-19.6)	9.5 (7.8-11.7)	5.2 (3.8-7.0)	10.2 (9.4-11.2)
January 3-9, 2021	10.2 (9.6-10.8)	6.1 (4.8-7.9)	21.1 (18.9-23.6)	6.8 (5.5-8.5)	12.2 (10.3-14.5)	8.2 (7.4-8.9)
January 10-16, 2021	9.8 (9.2-10.4)	7.7 (6.1-9.8)	25.7 (23.4-28.2)	5.4 (4.2-6.9)	5.5 (4.3-7.1)	6.9 (6.2-7.6)
January 17-23, 2021	9.5 (8.9-10.1)	10.5 (8.8-12.7)	23.4 (21.3-25.7)	5.4 (4.1-7.1)	7.7 (6.2-9.6)	5.3 (4.7-6.0)
January 24-30, 2021	6.9 (6.4-7.5)	11.0 (9.2-13.1)	19.8 (17.7-22.3)	4.1 (3.0-5.6)	4.6 (3.5-6.0)	3.3 (2.8-3.8)
January 31-February 6, 2021	4.9 (4.5-5.4)	4.4 (3.2-5.9)	13.4 (11.5-15.5)	3.9 (2.9-5.3)	3.2 (2.3-4.4)	3.3 (2.8-3.9)
February 7-13, 2021	5.4 (4.9-5.9)	2.3 (1.5-3.6)	16.3 (14.3-18.5)	4.9 (3.7-6.4)	2.1 (1.3-3.3)	3.3 (2.8-3.9)
February 14-20, 2021	4.8 (4.4-5.3)	2.8 (1.9-4.1)	14.8 (12.9-16.9)	1.5 (0.9-2.4)	0.2 (0.1-1.0)	3.8 (3.3-4.4)
February 21-27, 2021	3.4 (3.1-3.8)	2.1 (1.4-3.3)	12.7 (10.9-14.9)	1.4 (0.9-2.4)	0.1 (0.0-0.7)	2.6 (2.2-3.0)
February 28-March 6, 2021	3.3 (2.9-3.7)	1.2 (0.7-2.2)	13.5 (11.7-15.7)	1.8 (1.1-2.8)	0.6 (0.3-1.4)	1.8 (1.5-2.2)
March 7-13, 2021	4.6 (4.2-5.0)	1.3 (0.7-2.3)	15.4 (13.6-17.5)	3.0 (2.1-4.2)	1.9 (1.2-2.9)	2.9 (2.5-3.4)
March 14-20, 2021	4.6 (4.2-5.1)	1.5 (0.8-2.6)	14.0 (12.2-16.1)	2.9 (2.1-4.1)	3.1 (2.3-4.3)	3.5 (3.0-4.0)
March 21-27, 2021	3.7 (3.4-4.1)	1.0 (0.5-1.9)	13.2 (11.3-15.3)	2.0 (1.3-3.0)	1.6 (1.0-2.4)	2.9 (2.5-3.4)
March 28-April 3, 2021	4.5 (4.1-5.0)	0.8 (0.4-1.8)	14.9 (12.9-17.2)	1.4 (0.8-2.4)	4.4 (3.3-5.9)	3.3 (2.8-3.8)



<b>Week</b>	<b>Overall</b>	<b>Interlake-Eastern</b>	<b>Northern</b>	<b>Southern</b>	<b>Prairie Mountain</b>	<b>Winnipeg</b>
April 4-10, 2021	5.3 (4.9-5.8)	1.6 (1.0-2.7)	11.8 (10.2-13.7)	3.0 (2.3-4.1)	3.8 (2.9-5.0)	5.2 (4.7-5.8)
April 11-17, 2021	5.4 (5.0-5.8)	5.2 (4.0-6.6)	8.7 (7.4-10.2)	3.6 (2.8-4.8)	4.7 (3.8-5.9)	5.2 (4.8-5.7)
April 18-24, 2021	7.0 (6.6-7.4)	4.9 (4.0-6.1)	6.2 (5.2-7.5)	6.2 (5.2-7.5)	7.0 (5.9-8.3)	7.6 (7.1-8.1)
April 25-May 1, 2021	7.4 (7.0-7.7)	5.6 (4.5-6.8)	4.5 (3.6-5.7)	5.7 (4.7-6.8)	8.0 (6.9-9.2)	8.1 (7.6-8.6)
May 2-8, 2021	10.8 (10.4-11.3)	7.0 (5.8-8.3)	6.7 (5.5-8.3)	8.4 (7.3-9.7)	8.3 (7.1-9.6)	12.6 (12.0-13.2)
May 9-15, 2021	12.1 (11.7-12.6)	10.1 (8.8-11.5)	9.8 (8.1-11.8)	11.5 (10.3-12.8)	7.6 (6.5-8.8)	13.6 (13.0-14.2)
May 16-22, 2021	13.2 (12.7-13.7)	8.0 (6.9-9.4)	10.8 (9.1-12.7)	12.2 (10.9-13.6)	10.1 (8.7-11.6)	15.1 (14.4-15.8)
May 23-29, 2021	11.6 (11.0-12.1)	8.5 (7.1-10.1)	8.1 (6.7-10.0)	11.0 (9.6-12.5)	9.2 (7.9-10.8)	13.1 (12.4-13.9)

**Supplementary Table 24 Adjusted<sup>a</sup> associations between certain socio-economic and clinical characteristics and COVID-19 testing and incidence during the second<sup>b</sup> and third<sup>c</sup> waves**

	Testing (rate ratio)	Incidence (hazard ratio)
<b>Age</b>		
<10	0.92 (0.91-0.93)	0.85 (0.82-0.88)
10-17	0.89 (0.88-0.90)	1.14 (1.10-1.18)
18-29	1.13 (1.12-1.14)	1.26 (1.23-1.30)
30-49	Ref.	Ref.
50-64	0.65 (0.64-0.66)	0.75 (0.72-0.77)
≥65	0.51 (0.51-0.52)	0.50 (0.48-0.52)
Female	1.09 (1.08-1.09)	0.96 (0.94-0.98)
<b>Income quintile</b>		
Q1 (lowest)	Ref.	Ref.
Q2	0.87 (0.86-0.87)	0.64 (0.63-0.66)
Q3	0.86 (0.85-0.86)	0.59 (0.57-0.60)
Q4	0.84 (0.83-0.85)	0.57 (0.56-0.59)
Q5 (highest)	0.81 (0.81-0.82)	0.44 (0.43-0.45)
Unknown	0.91 (0.89-0.92)	0.63 (0.60-0.67)
<b>Regional health authority of residence</b>		
Interlake-Eastern	0.96 (0.95-0.97)	0.75 (0.73-0.78)
Northern	1.82 (1.80-1.84)	2.55 (2.48-2.62)
Southern	0.79 (0.78-0.79)	0.89 (0.86-0.91)
Prairie Mountain	0.75 (0.74-0.76)	0.47 (0.45-0.49)
Winnipeg	Ref.	Ref.
Public Trustee / In CFS care	1.27 (1.22-1.32)	1.62 (1.46-1.80)
In long-term care-second wave	4.22 (4.10-4.35)	5.37 (4.98-5.79)
In long-term care-third wave	1.66 (1.57-1.76)	0.50 (0.31-0.80)
Any chronic disease	1.20 (1.19-1.21)	1.26 (1.22-1.29)
Immunosuppressed	1.15 (1.13-1.16)	0.92 (0.88-0.97)
Use of ARBs/ACEIs <sup>d</sup>	0.99 (0.98-1.00)	1.10 (1.07-1.14)
Use of proton-pump inhibitors	1.46 (1.45-1.48)	1.27 (1.24-1.31)
<b>No. of physician visits in 2019</b>		
0	Ref.	Ref.
1-3	1.44 (1.43-1.46)	1.15 (1.12-1.18)
4-8	1.69 (1.67-1.71)	1.19 (1.15-1.22)
≥9	2.07 (2.05-2.09)	1.26 (1.22-1.30)
<b>No. of hospitalizations in 2019</b>		
0	Ref.	Ref.
1	1.12 (1.10-1.13)	1.09 (1.05-1.13)
≥2	1.50 (1.47-1.53)	1.28 (1.20-1.37)

<sup>a</sup> Adjusted for age, gender, income quintile, regional health authority of residence, long-term care status, chronic disease, ARB/ACEI use, proton-pump inhibitor use, immunosuppression, and number of physician visits and hospitalizations in 2019. <sup>b</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>c</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>d</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 25 Adjusted<sup>a</sup> associations between certain socio-economic and clinical characteristics and COVID-19 testing and incidence by pandemic stage**

	Testing (rate ratio)		Incidence (hazard ratio)	
	Second wave <sup>b</sup>	Third wave <sup>c</sup>	Second wave <sup>b</sup>	Third wave <sup>c</sup>
<b>Age</b>				
<10	0.74 (0.73-0.75)	1.14 (1.13-1.16)	0.64 (0.61-0.67)	1.11 (1.06-1.17)
10-17	0.79 (0.78-0.81)	1.00 (0.98-1.02)	0.98 (0.93-1.03)	1.34 (1.27-1.42)
18-29	1.13 (1.12-1.14)	1.12 (1.10-1.13)	1.17 (1.13-1.22)	1.35 (1.29-1.41)
30-49	Ref.	Ref.	Ref.	Ref.
50-64	0.68 (0.67-0.69)	0.63 (0.62-0.64)	0.88 (0.84-0.91)	0.63 (0.59-0.66)
≥65	0.54 (0.53-0.54)	0.50 (0.49-0.51)	0.71 (0.68-0.75)	0.30 (0.27-0.32)
Female	1.09 (1.08-1.10)	1.09 (1.08-1.10)	0.95 (0.93-0.97)	0.96 (0.93-0.99)
<b>Income quintile</b>				
Q1 (lowest)	Ref.	Ref.	Ref.	Ref.
Q2	0.85 (0.84-0.86)	0.89 (0.88-0.90)	0.63 (0.61-0.65)	0.68 (0.65-0.71)
Q3	0.85 (0.84-0.86)	0.86 (0.84-0.87)	0.57 (0.54-0.59)	0.63 (0.60-0.65)
Q4	0.84 (0.83-0.85)	0.84 (0.82-0.85)	0.59 (0.57-0.61)	0.56 (0.53-0.58)
Q5 (highest)	0.81 (0.80-0.82)	0.81 (0.80-0.82)	0.45 (0.43-0.47)	0.42 (0.40-0.45)
Unknown	0.90 (0.88-0.92)	0.91 (0.89-0.94)	0.62 (0.58-0.66)	0.65 (0.60-0.71)
<b>Regional health authority of residence</b>				
Interlake-Eastern	1.01 (1.00-1.02)	0.89 (0.88-0.90)	0.89 (0.85-0.93)	0.58 (0.54-0.62)
Northern	1.93 (1.91-1.96)	1.71 (1.68-1.74)	3.20 (3.09-3.32)	1.75 (1.67-1.84)
Southern	0.84 (0.83-0.85)	0.72 (0.71-0.73)	1.12 (1.08-1.16)	0.60 (0.57-0.63)
Prairie Mountain	0.74 (0.73-0.75)	0.77 (0.76-0.78)	0.43 (0.40-0.45)	0.54 (0.51-0.57)
Winnipeg	Ref.	Ref.	Ref.	Ref.
Public Trustee / In CFS care	1.35 (1.29-1.42)	1.14 (1.08-1.22)	1.86 (1.65-2.10)	1.28 (1.03-1.58)
In long-term care	4.22 (4.10-4.35)	1.66 (1.57-1.76)	5.37 (4.98-5.79)	0.50 (0.31-0.80)
Any chronic disease	1.22 (1.21-1.24)	1.21 (1.19-1.22)	1.31 (1.26-1.35)	1.18 (1.12-1.24)
Immunosuppressed	1.15 (1.14-1.17)	1.15 (1.13-1.17)	0.90 (0.85-0.95)	0.98 (0.91-1.06)
Use of ARBs/ACEIs <sup>d</sup>	0.96 (0.95-0.97)	0.95 (0.93-0.96)	1.13 (1.08-1.17)	1.01 (0.95-1.07)
Use of proton-pump inhibitors	1.36 (1.34-1.37)	1.37 (1.35-1.38)	1.18 (1.14-1.23)	1.21 (1.14-1.28)
<b>No. of physician visits in 2019</b>				
0	Ref.	Ref.	Ref.	Ref.
1-3	1.48 (1.46-1.50)	1.41 (1.39-1.43)	1.22 (1.17-1.26)	1.08 (1.03-1.12)
4-8	1.76 (1.73-1.78)	1.65 (1.62-1.67)	1.26 (1.21-1.31)	1.12 (1.07-1.17)
≥9	2.19 (2.16-2.22)	2.03 (2.00-2.06)	1.37 (1.31-1.43)	1.17 (1.11-1.24)
<b>No. of hospitalizations in 2019</b>				
0	Ref.	Ref.	Ref.	Ref.
1	1.11 (1.09-1.13)	1.12 (1.10-1.14)	1.08 (1.03-1.14)	1.07 (1.00-1.15)
≥2	1.51 (1.48-1.55)	1.47 (1.43-1.52)	1.35 (1.25-1.45)	1.02 (0.88-1.17)

<sup>a</sup> Adjusted for age, gender, income quintile, regional health authority of residence, long-term care status, chronic disease, ARB/ACEI use, proton-pump inhibitor use, immunosuppression, and number of physician visits and hospitalizations in 2019. <sup>b</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>c</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>d</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 26 Crude rate ratios (95% confidence interval) of the association between SARS-CoV-2 testing and certain socio-economic and clinical characteristics by pandemic stage**

	Second wave <sup>a</sup>	Third wave <sup>b</sup>
Age		
<10	0.74 (0.73-0.75)	1.14 (1.13-1.16)
10-17	0.79 (0.78-0.81)	1.00 (0.98-1.02)
18-29	1.13 (1.12-1.14)	1.12 (1.10-1.13)
30-49	Ref.	Ref.
50-64	0.68 (0.67-0.69)	0.63 (0.62-0.64)
≥65	0.54 (0.53-0.54)	0.50 (0.49-0.51)
Female	1.09 (1.08-1.10)	1.09 (1.08-1.10)
Income quintile		
Q1 (lowest)	Ref.	Ref.
Q2	0.85 (0.84-0.86)	0.89 (0.88-0.90)
Q3	0.85 (0.84-0.86)	0.86 (0.84-0.87)
Q4	0.84 (0.83-0.85)	0.84 (0.82-0.85)
Q5 (highest)	0.81 (0.80-0.82)	0.81 (0.80-0.82)
Unknown	0.90 (0.88-0.92)	0.91 (0.89-0.94)
Regional health authority of residence		
Interlake-Eastern	1.01 (1.00-1.02)	0.89 (0.88-0.90)
Northern	1.93 (1.91-1.96)	1.71 (1.68-1.74)
Southern	0.84 (0.83-0.85)	0.72 (0.71-0.73)
Prairie Mountain	0.74 (0.73-0.75)	0.77 (0.76-0.78)
Winnipeg	Ref.	Ref.
Public Trustee / In CFS care	1.35 (1.29-1.42)	1.14 (1.08-1.22)
In long-term care	4.22 (4.10-4.35)	1.66 (1.57-1.76)
Any chronic disease	1.22 (1.21-1.24)	1.21 (1.19-1.22)
Immunosuppressed	1.15 (1.14-1.17)	1.15 (1.13-1.17)
Use of ARBs/ACEIs <sup>c</sup>	0.96 (0.95-0.97)	0.95 (0.93-0.96)
Use of proton-pump inhibitors	1.36 (1.34-1.37)	1.37 (1.35-1.38)
No. of physician visits in 2019		
0	Ref.	Ref.
1-3	1.48 (1.46-1.50)	1.41 (1.39-1.43)
4-8	1.76 (1.73-1.78)	1.65 (1.62-1.67)
≥9	2.19 (2.16-2.22)	2.03 (2.00-2.06)
No. of hospitalizations in 2019		
0	Ref.	Ref.
1	1.11 (1.09-1.13)	1.12 (1.10-1.14)
≥2	1.51 (1.48-1.55)	1.47 (1.43-1.52)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>b</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 27 Crude hazard ratios (95% confidence interval) of the association between COVID-19 incidence and certain socio-economic and clinical characteristics by pandemic stage**

	Second wave <sup>a</sup>	Third wave <sup>b</sup>
<b>Age</b>		
<10	0.64 (0.61-0.67)	1.11 (1.06-1.17)
10-17	0.98 (0.93-1.03)	1.34 (1.27-1.42)
18-29	1.17 (1.13-1.22)	1.35 (1.29-1.41)
30-49	Ref.	Ref.
50-64	0.88 (0.84-0.91)	0.63 (0.59-0.66)
≥65	0.71 (0.68-0.75)	0.30 (0.27-0.32)
Female	0.95 (0.93-0.97)	0.96 (0.93-0.99)
<b>Income quintile</b>		
Q1 (lowest)	Ref.	Ref.
Q2	0.63 (0.61-0.65)	0.68 (0.65-0.71)
Q3	0.57 (0.54-0.59)	0.63 (0.60-0.65)
Q4	0.59 (0.57-0.61)	0.56 (0.53-0.58)
Q5 (highest)	0.45 (0.43-0.47)	0.42 (0.40-0.45)
Unknown	0.62 (0.58-0.66)	0.65 (0.60-0.71)
<b>Regional health authority of residence</b>		
Interlake-Eastern	0.89 (0.85-0.93)	0.58 (0.54-0.62)
Northern	3.20 (3.09-3.32)	1.75 (1.67-1.84)
Southern	1.12 (1.08-1.16)	0.60 (0.57-0.63)
Prairie Mountain	0.43 (0.40-0.45)	0.54 (0.51-0.57)
Winnipeg	Ref.	Ref.
Public Trustee / In CFS care	1.86 (1.65-2.10)	1.28 (1.03-1.58)
In long-term care	5.37 (4.98-5.79)	0.50 (0.31-0.80)
Any chronic disease	1.31 (1.26-1.35)	1.18 (1.12-1.24)
Immunosuppressed	0.90 (0.85-0.95)	0.98 (0.91-1.06)
Use of ARBs/ACEIs <sup>c</sup>	1.13 (1.08-1.17)	1.01 (0.95-1.07)
Use of proton-pump inhibitors	1.18 (1.14-1.23)	1.21 (1.14-1.28)
<b>No. of physician visits in 2019</b>		
0	Ref.	Ref.
1-3	1.22 (1.17-1.26)	1.08 (1.03-1.12)
4-8	1.26 (1.21-1.31)	1.12 (1.07-1.17)
≥9	1.37 (1.31-1.43)	1.17 (1.11-1.24)
<b>No. of hospitalizations in 2019</b>		
0	Ref.	Ref.
1	1.08 (1.03-1.14)	1.07 (1.00-1.15)
≥2	1.35 (1.25-1.45)	1.02 (0.88-1.17)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>b</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 28 Crude associations between certain socio-economic and clinical characteristics and COVID-19 testing and incidence during the second<sup>a</sup> and third<sup>b</sup> waves**

	Testing (rate ratio)	Incidence (hazard ratio)
<b>Age</b>		
<10	0.83 (0.82-0.84)	0.84 (0.81-0.87)
10-17	0.77 (0.76-0.78)	1.10 (1.06-1.14)
18-29	1.02 (1.01-1.03)	1.24 (1.20-1.27)
30-49	Ref.	Ref.
50-64	0.76 (0.75-0.77)	0.82 (0.80-0.85)
≥65	0.76 (0.75-0.77)	0.70 (0.68-0.72)
Female	1.18 (1.18-1.19)	0.99 (0.97-1.00)
<b>Income quintile</b>		
Q1 (lowest)	Ref.	Ref.
Q2	0.86 (0.86-0.87)	0.64 (0.62-0.66)
Q3	0.79 (0.78-0.80)	0.50 (0.49-0.52)
Q4	0.79 (0.78-0.80)	0.53 (0.52-0.55)
Q5 (highest)	0.79 (0.78-0.79)	0.43 (0.41-0.44)
Unknown	1.00 (0.99-1.02)	0.73 (0.69-0.76)
<b>Regional health authority of residence</b>		
Interlake-Eastern	0.93 (0.92-0.94)	0.73 (0.70-0.76)
Northern	1.74 (1.72-1.75)	2.76 (2.68-2.83)
Southern	0.76 (0.75-0.77)	0.85 (0.83-0.88)
Prairie Mountain	0.77 (0.77-0.78)	0.51 (0.49-0.53)
Winnipeg	Ref.	Ref.
Public Trustee / In CFS care	1.67 (1.62-1.73)	2.29 (2.08-2.51)
In long-term care - second wave	4.62 (4.51-4.73)	5.30 (4.98-5.64)
In long-term care - third wave	1.58 (1.50-1.66)	0.22 (0.14-0.35)
Any chronic disease	1.34 (1.33-1.35)	1.28 (1.25-1.31)
Immunosuppressed	1.34 (1.32-1.35)	0.92 (0.88-0.96)
Use of ARBs/ACEIs <sup>c</sup>	1.05 (1.05-1.06)	1.06 (1.03-1.09)
Use of proton-pump inhibitors	1.61 (1.59-1.62)	1.28 (1.24-1.31)
<b>No. of physician visits in 2019</b>		
0	Ref.	Ref.
1-3	1.40 (1.39-1.42)	1.09 (1.06-1.12)
4-8	1.56 (1.55-1.58)	1.02 (0.99-1.05)
≥9	2.01 (1.99-2.02)	1.13 (1.10-1.16)
<b>No. of hospitalizations in 2019</b>		
0	Ref.	Ref.
1	1.52 (1.50-1.54)	1.30 (1.25-1.35)
≥2	2.38 (2.34-2.42)	1.87 (1.75-1.99)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>b</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 29 Prevalence ratios (95% confidence interval) of the association between severe COVID-19 outcomes and certain socio-economic and clinical characteristics during the second wave<sup>a</sup>**

	Unadjusted			Adjusted <sup>b</sup>		
	Hospitalization	ICU admission	Death	Hospitalization	ICU admission	Death
<b>Age</b>						
<10	0.08 (0.04-0.16)	No cases	0.08 (0.01-0.58)	0.10 (0.05-0.20)	No cases	0.10 (0.01-0.72)
10-17	0.20 (0.14-0.31)	0.04 (0.01-0.30)	No cases	0.29 (0.19-0.43)	0.07 (0.01-0.48)	No cases
18-29	0.68 (0.56-0.82)	0.30 (0.17-0.53)	0.07 (0.02-0.30)	0.81 (0.67-0.98)	0.41 (0.23-0.72)	0.08 (0.02-0.34)
30-49	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
50-64	2.15 (1.86-2.48)	3.27 (2.45-4.37)	3.55 (2.43-5.19)	1.65 (1.43-1.92)	2.17 (1.59-2.95)	2.97 (2.02-4.36)
≥65	7.07 (6.26-7.99)	4.66 (3.52-6.16)	38.60 (27.97-53.27)	5.12 (4.42-5.92)	2.74 (1.94-3.86)	19.68 (13.66-28.34)
Female	1.01 (0.93-1.10)	0.76 (0.62-0.93)	1.06 (0.93-1.21)	0.89 (0.81-0.97)	0.71 (0.58-0.87)	0.75 (0.66-0.86)
<b>Income quintile</b>						
Q1 (lowest)	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Q2	0.81 (0.71-0.91)	0.68 (0.52-0.90)	0.89 (0.71-1.13)	0.83 (0.73-0.94)	0.77 (0.58-1.02)	0.79 (0.63-1.00)
Q3	0.77 (0.67-0.88)	0.69 (0.50-0.94)	1.10 (0.87-1.40)	0.71 (0.62-0.82)	0.72 (0.52-0.98)	0.80 (0.63-1.02)
Q4	0.83 (0.73-0.94)	0.57 (0.42-0.78)	1.48 (1.20-1.83)	0.73 (0.64-0.83)	0.58 (0.42-0.80)	0.95 (0.77-1.18)
Q5 (highest)	0.64 (0.55-0.75)	0.49 (0.34-0.71)	0.88 (0.67-1.15)	0.68 (0.58-0.79)	0.56 (0.39-0.81)	0.78 (0.59-1.02)
Unknown	0.88 (0.73-1.06)	0.65 (0.41-1.03)	6.88 (5.69-8.32)	0.45 (0.35-0.57)	0.48 (0.26-0.90)	1.04 (0.81-1.34)
<b>Regional health authority of residence</b>						
Interlake-Eastern	0.81 (0.68-0.96)	1.35 (0.97-1.86)	0.57 (0.42-0.77)	0.83 (0.69-0.99)	1.25 (0.89-1.74)	0.84 (0.62-1.15)
Northern	0.80 (0.70-0.91)	0.81 (0.61-1.08)	0.25 (0.18-0.34)	1.04 (0.90-1.18)	0.96 (0.71-1.30)	0.70 (0.51-0.96)
Southern	1.10 (0.98-1.24)	0.77 (0.56-1.05)	0.81 (0.66-0.98)	0.98 (0.87-1.11)	0.73 (0.54-1.01)	0.86 (0.71-1.06)
Prairie Mountain	0.80 (0.64-0.99)	0.56 (0.31-0.99)	0.79 (0.58-1.08)	0.76 (0.61-0.94)	0.51 (0.28-0.92)	0.71 (0.52-0.96)
Winnipeg	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Public Trustee / In CFS care	1.72 (1.28-2.32)	1.56 (0.77-3.16)	3.57 (2.63-4.85)	1.56 (1.06-2.31)	1.60 (0.64-4.01)	0.94 (0.67-1.32)
In long-term care	1.09 (0.88-1.35)	0.64 (0.34-1.19)	15.82 (13.78-18.17)	0.23 (0.18-0.29)	0.20 (0.10-0.40)	1.88 (1.55-2.28)
Any chronic disease	6.13 (5.59-6.71)	8.73 (6.94-10.98)	10.93 (9.29-12.87)	2.04 (1.82-2.28)	2.99 (2.27-3.94)	1.91 (1.58-2.31)
Immunosuppressed	3.37 (2.98-3.81)	3.45 (2.62-4.54)	3.61 (3.00-4.34)	1.23 (1.08-1.40)	1.32 (0.99-1.76)	1.27 (1.05-1.53)
Use of ARBs/ACEIs <sup>c</sup>	3.55 (3.25-3.88)	4.79 (3.93-5.84)	2.83 (2.45-3.26)	1.00 (0.90-1.10)	1.27 (1.01-1.59)	0.74 (0.63-0.85)
Use of proton-pump inhibitors	3.85 (3.52-4.22)	3.86 (3.14-4.75)	4.85 (4.24-5.56)	1.27 (1.15-1.41)	1.26 (1.01-1.59)	1.29 (1.11-1.49)
<b>No. of physician visits in 2019</b>						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-3	1.26 (0.99-1.59)	1.46 (0.83-2.56)	1.42 (0.84-2.39)	1.13 (0.89-1.44)	1.07 (0.60-1.90)	0.91 (0.54-1.54)
4-8	2.55 (2.05-3.17)	2.49 (1.46-4.24)	3.52 (2.19-5.66)	1.30 (1.03-1.64)	0.92 (0.52-1.63)	0.88 (0.54-1.43)
≥9	6.80 (5.56-8.31)	7.54 (4.62-12.31)	16.81 (10.78-26.22)	1.50 (1.18-1.90)	1.27 (0.73-2.22)	1.09 (0.68-1.76)
<b>No. of hospitalizations in 2019</b>						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1	2.96 (2.63-3.33)	2.62 (1.98-3.47)	3.29 (2.75-3.93)	1.74 (1.53-1.97)	1.52 (1.12-2.04)	1.26 (1.05-1.52)
≥2	6.28 (5.50-7.17)	4.70 (3.39-6.52)	6.44 (5.27-7.89)	2.55 (2.20-2.96)	1.78 (1.25-2.55)	1.35 (1.09-1.69)

<sup>a</sup> The second wave is from October 1, 2020 to Feb 28, 2021. <sup>b</sup> Adjusted for age, gender, income quintile, regional health authority of residence, long-term care status, chronic disease, ARB/ACEI use, proton-pump inhibitor use, immunosuppression, and number of physician visits and hospitalizations in 2019. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.

**Supplementary Table 30 Prevalence ratios (95% confidence interval) of the association between severe COVID-19 outcomes and certain socio-economic and clinical characteristics during the third wave<sup>a</sup>**

	Unadjusted			Adjusted <sup>b</sup>		
	Hospitalization	ICU admission	Death	Hospitalization	ICU admission	Death
<b>Age</b>						
<10	0.07 (0.04-0.14)	No cases	No cases	0.09 (0.05-0.16)	No cases	No cases
10-17	0.14 (0.09-0.23)	0.07 (0.02-0.22)	No cases	0.18 (0.11-0.29)	0.10 (0.03-0.32)	No cases
18-29	0.63 (0.52-0.77)	0.30 (0.19-0.46)	0.54 (0.21-1.40)	0.74 (0.61-0.91)	0.38 (0.24-0.59)	0.68 (0.26-1.79)
30-49	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
50-64	2.25 (1.91-2.65)	2.27 (1.73-2.98)	5.43 (2.92-10.09)	1.62 (1.37-1.92)	1.39 (1.04-1.86)	3.25 (1.71-6.17)
≥65	6.14 (5.23-7.20)	3.08 (2.24-4.23)	24.67 (13.87-43.89)	3.10 (2.56-3.75)	1.30 (0.90-1.88)	9.49 (4.94-18.24)
Female	1.05 (0.93-1.19)	0.84 (0.67-1.05)	0.61 (0.42-0.87)	0.93 (0.82-1.05)	0.71 (0.57-0.90)	0.50 (0.35-0.74)
<b>Income quintile</b>						
Q1 (lowest)	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Q2	0.62 (0.52-0.73)	0.68 (0.49-0.93)	0.47 (0.27-0.79)	0.67 (0.56-0.79)	0.73 (0.54-1.00)	0.60 (0.35-1.03)
Q3	0.69 (0.58-0.83)	0.73 (0.53-1.02)	0.54 (0.32-0.94)	0.72 (0.60-0.86)	0.73 (0.52-1.03)	0.67 (0.39-1.14)
Q4	0.74 (0.62-0.89)	0.60 (0.42-0.87)	0.48 (0.27-0.87)	0.72 (0.60-0.86)	0.60 (0.41-0.86)	0.50 (0.27-0.93)
Q5 (highest)	0.46 (0.36-0.58)	0.34 (0.20-0.56)	0.30 (0.14-0.66)	0.47 (0.37-0.60)	0.35 (0.21-0.58)	0.37 (0.16-0.81)
Unknown	0.60 (0.43-0.86)	0.64 (0.33-1.21)	1.39 (0.71-2.73)	0.41 (0.25-0.68)	0.59 (0.26-1.34)	1.00 (0.33-3.04)
<b>Regional health authority of residence</b>						
Interlake-Eastern	1.67 (1.33-2.09)	1.73 (1.16-2.60)	0.79 (0.29-2.19)	1.55 (1.24-1.94)	1.61 (1.08-2.42)	0.62 (0.22-1.74)
Northern	1.15 (0.95-1.39)	1.07 (0.74-1.53)	1.66 (0.97-2.82)	1.26 (1.03-1.55)	1.17 (0.80-1.72)	1.87 (1.04-3.34)
Southern	1.64 (1.36-1.97)	0.99 (0.66-1.50)	2.50 (1.51-4.14)	1.43 (1.19-1.72)	0.95 (0.63-1.44)	1.82 (1.08-3.08)
Prairie Mountain	1.64 (1.34-2.00)	1.43 (0.97-2.11)	2.67 (1.57-4.55)	1.24 (1.01-1.54)	1.03 (0.68-1.54)	1.77 (1.04-3.01)
Winnipeg	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Public Trustee / In CFS care	3.36 (2.08-5.44)	2.56 (0.95-6.89)	12.11 (5.21-28.10)	4.08 (1.98-8.43)	2.49 (0.67-9.34)	4.09 (0.96-17.41)
In long-term care	5.97 (2.71-13.16)	No cases	34.76 (12.92-93.48)	1.01 (0.41-2.49)	No cases	2.58 (0.62-10.74)
Any chronic disease	6.13 (5.43-6.91)	7.15 (5.68-9.02)	14.51 (9.70-21.72)	2.02 (1.74-2.36)	2.24 (1.69-2.97)	2.56 (1.55-4.23)
Immunosuppressed	4.10 (3.45-4.88)	4.44 (3.23-6.10)	6.59 (4.27-10.17)	1.59 (1.32-1.91)	1.66 (1.20-2.31)	2.01 (1.28-3.16)
Use of ARBs/ACEIs <sup>c</sup>	5.04 (4.43-5.73)	5.91 (4.66-7.49)	9.70 (6.80-13.83)	1.24 (1.06-1.44)	1.47 (1.11-1.94)	1.46 (0.98-2.19)
Use of proton-pump inhibitors	4.16 (3.64-4.76)	4.47 (3.48-5.74)	6.84 (4.75-9.83)	1.17 (1.01-1.37)	1.23 (0.92-1.64)	1.28 (0.85-1.94)
<b>No. of physician visits in 2019</b>						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-3	1.01 (0.79-1.29)	0.97 (0.58-1.62)	1.09 (0.42-2.80)	0.94 (0.73-1.21)	0.88 (0.53-1.46)	0.82 (0.32-2.09)
4-8	1.70 (1.35-2.14)	1.84 (1.15-2.94)	2.52 (1.08-5.87)	1.00 (0.78-1.28)	1.02 (0.63-1.65)	0.94 (0.40-2.21)
≥9	4.55 (3.70-5.60)	5.59 (3.67-8.50)	9.22 (4.26-19.95)	1.24 (0.97-1.59)	1.54 (0.96-2.47)	1.07 (0.46-2.49)
<b>No. of hospitalizations in 2019</b>						
0	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1	2.30 (1.91-2.78)	1.55 (1.02-2.35)	2.21 (1.24-3.95)	1.38 (1.13-1.68)	0.86 (0.56-1.33)	0.93 (0.51-1.71)
≥2	6.19 (4.78-8.02)	6.33 (3.97-10.08)	12.22 (6.98-21.41)	1.88 (1.41-2.50)	2.01 (1.22-3.31)	2.22 (1.10-4.45)

<sup>a</sup> The third wave is from March 1, 2021 to June 1, 2021. <sup>b</sup> Adjusted for age, gender, income quintile, regional health authority of residence, long-term care status, chronic disease, ARB/ACEI use, proton-pump inhibitor use, immunosuppression, and number of physician visits and hospitalizations in 2019. <sup>c</sup> ARBs/ACEIs: Angiotensin receptor blockers and angiotensin converting enzyme inhibitors.