Table S1. Data Sources integrated within the BC COVID-19 Cohort (BCC19C)

Authority (PHSA) and Regional Health Authority data sources Integrated COVID-19 laboratory dataset (SARS-CoV2 tests from private/public labs) S1 COVID-19 surveillance case data (information collected on all probable/confirmed cases as part of public health follow up) S2 Provincial COVID-19 Monitoring Solution (critical and non-critical care hospital census data) S3 Provincial Immunizations Registry (COVID-19 vaccination data) S4 Provincial Laboratory Information Solution (laboratory tests from private/public labs) S5 Public Health Reporting Data warehouse (Influenza laboratory tests) S6 Public Health Reporting Data warehouse (Influenza laboratory tests) S6 Ministry of Health (MoH) Administrative Data Sources: Client Roster (CR) (registry of enrollment in the universal public health insurance plan including residential history) S7 Discharge Abstracts Database (DAD) (hospital discharge records) S8 Jan,2020-onward 2008/9-onward	
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Client Roster (CR) (registry of enrollment in the universal public health insurance plan including residential history) S7	
plan including residential history) S7	s:
Discharge Abstracts Database (DAD) (hospital discharge records) ^{S8} 2008/9-onward	
Medical Services Plan (MSP) (physician diagnostic and billing data for services 2008/9-onward	
provided through universal public health insurance plan) S9	
PharmaNet (Pharma) (prescription drugs dispensed from community pharmacies, 2008/9-onward	
includes medications covered by public and private insurance plans) S10	
BC Vital Statistics (VS) (deaths registry) ^{S11} 2008/9-onward	
National Ambulatory Care Reporting System (NACRS) (hospital-based and 2011/12–onward	
community-based ambulatory care) S12	
Chronic Disease Registry S13 2008/9-2018/19	
811 Calls (respiratory calls only) S14 2014-onward	
Health System Matrix S15 2018/19-onward	
Population Grouper Methodology S16 2008/9-onward	

Table S2. ICD-9 and ICD-10 diagnostic codes used in the manuscript

Disorder Group	ICD-9	Code	ICD-10 Code			
	(Outpa	tient Physician Visits Data)	(Hospita	al Discharge Data)		
Depressive or	300	Neurotic disorders	F40	Phobic anxiety disorders		
anxiety disorders	311	Depressive disorder, not	F41	Other anxiety disorders		
		elsewhere classified				
	B50	Anxiety/depression	F32	Depressive episode		
			F33	Recurrent depressive disorders		
			F34.1	Dysthymia		
Schizophrenia	295	Schizophrenic psychoses	F20	Schizophrenia		
spectrum and	297	Paranoid states	F21	Schizotypal disorder		
other	298	Other nonorganic	F22	Persistent delusional disorders		
psychotic		psychoses				
disorders			F23	Acute and transient psychotic disorders		
			F24	Induced delusional disorder		
			F25	Schizoaffective disorders		
			F28	Other nonorganic psychotic disorders		
			F29	Unspecified nonorganic psychosis		
Bipolar and	296	Affective psychoses	F30	Manic episode		
related disorders			F31	Bipolar affective disorder		
			F34	Persistent mood [affective] disorders		
				(excluding 34.1)		
			F38	Other mood [affective] disorders		
			F39	Unspecified mood [affective] disorders		
Eating disorders	307.1	Anorexia nervosa	F50	Eating disorders		
	307.5	Other unspecified				
		disorders of eating				
Personality	301	Personality disorders	F60	Specific personality disorders		
disorders		·	F61	Mixed and other personality disorders		
			F62	Enduring personality changes, not		
				attributable to brain damage		

Table S3. Canadian Emergency Department Information System (CEDIS) Presenting Complaint List (PCL) codes used in the manuscript

Disorder Group	PCL Codes
Depression/suicidal/deliberate self-harm	351
Anxiety/situational crisis	352
Hallucinations/delusions	353
Insomnia	354
Violent/homicidal behaviour	355
Social problem	356
Bizarre behaviour	358
Concern of patient's welfare	359
Pediatric disruptive behaviour	360

Table S4. Psychotropic medications captured in the list of drug categories

Chemical name	Drug category	Chemical name	Drug category
Amitriptyline	Antidepressants	Promazine	Antipsychotics
Amoxapine	Antidepressants	Quetiapine	Antipsychotics
Atomoxetine	Antidepressants	Risperidone	Antipsychotics
Bupropion	Antidepressants	Sulpiride	Antipsychotics
Citalopram	Antidepressants	Sulthiame	Antipsychotics
Clomipramine	Antidepressants	Thiopropazate	Antipsychotics
Desipramine	Antidepressants	Thioridazine	Antipsychotics
Desvenlafaxine	Antidepressants	Trifluoperazine	Antipsychotics
Doxepin	Antidepressants	Trilafon	Antipsychotics
Duloxetine	Antidepressants	Truxal	Antipsychotics
Escitalopram	Antidepressants	Alprazolam	Anxiolytics
Fluoxetine	Antidepressants	Buspirone	Anxiolytics
Fluvoxamine	Antidepressants	Clonazepam	Anxiolytics

Imipramine	Antidepressants	Clorazepate dipotassium	Anxiolytics
Isocarboxazid	Antidepressants	Diazepam	Anxiolytics
Maprotiline	Antidepressants	Lorazepam	Anxiolytics
Mirtazapine	Antidepressants	Bromazepam	Sedatives
Moclobemide	Antidepressants	Chloral hydrate	Sedatives
Nortriptyline	Antidepressants	Chlordiazepoxide	Sedatives
Paroxetine	Antidepressants	Flurazepam	Sedatives
Perphenazine/amitriptyline	Antidepressants	Nitrazepam	Sedatives
Phenelzine	Antidepressants	Oxazepam	Sedatives
Protriptyline	Antidepressants	Temazepam	Sedatives
Sertraline	Antidepressants	Triazolam	Sedatives
Zaleplon	Sedatives	Tranylcypromine	Antidepressants
Zolpidem	Sedatives	Trazodone	Antidepressants
Zopiclone	Sedatives	Trimipramine	Antidepressants
Vilazodone	Antidepressants	Dogmatil	Antipsychotics
Vortioxetine	Antidepressants	Fluphenazine	Antipsychotics
Venlafaxine	Antidepressants	Haloperidol	Antipsychotics
Ziprasidone	Antipsychotics	Loxapine	Antipsychotics
Amisulpride	Antipsychotics	Lurasidone	Antipsychotics
Aripiprazole	Antipsychotics	Methotrimeprazine	Antipsychotics
Asenapine	Antipsychotics	Olanzapine	Antipsychotics
Brexpiprazole	Antipsychotics	Paliperidone	Antipsychotics
Chlorpromazine	Antipsychotics	Perphenazine	Antipsychotics
Clozapine	Antipsychotics		

Table S5. Monthly average numbers and rates for mental health-related outpatient physician visits, in British Columbia (2019-2020)

	Outpatient physician visits										
		2019		2020		2021					
	Average		Average		Average						
	monthly	Average monthly	monthly	Average monthly	monthly	Average monthly	2021 vs. 2019 Rate				
	number	rate of visits (per	number of	rate of visits (per	number of	rate of visits (per	Ratio				
	of visits	1,000 pop.)	visits	1,000 pop.)	visits	1,000 pop.)	(95% CI)	P-value*			
Overall	96,482	18.9 (18.8 to 19.1)	107,765	20.9 (20.8 to 21.1)	119,653	23.1 (23.0 to 23.2)	1.24 (1.23 to 1.25)	< 0.0001			
Sex											
Female	52,607	20.4 (20.3 to 20.6)	60,116	23.1 (22.9 to 23.3)	68,300	26.1 (25.9 to 26.3)	1.30 (1.28 to 1.31)	< 0.0001			
Male	43,875	17.4 (17.2 to 17.6)	47,649	18.7 (18.5 to 18.9)	51,353	20.0 (19.8 to 20.2)	1.17 (1.16 to 1.19)	< 0.0001			
Age grou	ıps										
<5	140	0.6 (0.5 to 0.7)	143	0.6 (0.5 to 0.7)	186	0.8 (0.7 to 1.0)	1.35 (1.08 to 1.68)	0.0074			
5-9	2,373	9.8 (9.4 to 10.2)	2,569	10.5 (10.1 to 10.9)	2,963	12.1 (11.7 to 12.6)	1.24 (1.17 to 1.31)	< 0.0001			
10-14	3,761	15.3 (14.9 to 15.8)	4,425	17.8 (17.2 to 18.3)	5,545	22.2 (21.6 to 22.8)	1.45 (1.39 to 1.51)	< 0.0001			
15-19	6,044	21.8 (21.2 to 22.3)	6,701	24.6 (24.0 to 25.2)	8,247	32.8 (32.1 to 33.5)	1.51 (1.46 to 1.56)	< 0.0001			
20-29	16,467	23.5 (23.2 to 23.9)	18,459	26.4 (26.0 to 26.8)	22,019	31.3 (30.9 to 31.7)	1.10 (0.99 to 1.21)	< 0.0001			
30-39	17,012	23.6 (23.2 to 23.9)	19,987	27.0 (26.6 to 27.4)	22,991	30.3 (29.9 to 30.7)	1.28 (1.26 to 1.31)	< 0.0001			
40-49	14,476	22.3 (22.0 to 22.7)	16,061	24.7 (24.4 to 25.1)	17,223	26.3 (25.9 to 26.7)	1.18 (1.15 to 1.20)	< 0.0001			
50-59	15,034	20.7 (20.4 to 21.1)	15,865	22.0 (21.7 to 22.4)	16,120	22.5 (22.1 to 22.8)	1.08 (1.06 to 1.11)	< 0.0001			
60-69	11,651	17.6 (17.3 to 18.0)	12,535	18.6 (18.3 to 18.9)	12,861	18.7 (18.3 to 19.0)	1.06 (1.03 to 1.09)	< 0.0001			
70-79	6,102	14.7 (14.4 to 15.1)	7,099	16.3 (15.9 to 16.6)	7,455	16.3 (16.0 to 16.7)	1.11 (1.07 to 1.15)	< 0.0001			
80-89	2,702	14.7 (14.2 to 15.3)	3,078	16.3 (15.8 to 16.9)	3,168	16.3 (15.7 to 16.9)	1.10 (1.05 to 1.16)	<0.001			
90+	721	15.6 (14.5 to 16.8)	842	17.6 (16.4 to 18.8)	879	17.1 (16.0 to 18.3)	1.10 (0.99 to 1.21)	0.068			
*Chi-square	analysis										

Table S6. Monthly average numbers and rates for mental health-related emergency department visits, in British Columbia (2019-2020)

	Emergency department visits										
	2019			2020		2021					
			Avera								
			ge monthl								
	Average		у		Average						
	monthly	Average monthly rate	numbe	Average monthly rate	monthly	Average monthly rate					
	number	of visits (per 100,000	r of	of visits (per 100,000	number	of visits (per 100,000	2021 vs. 2019 Rate				
	of visits	pop.)	visits	pop.)	of visits	pop.)	Ratio (95% CI)	P-value*			
Overall	5,266	103.5 (100.7 to 106.4)	5,011	97.7 (95.0 to 100.5)	5,531	107.9 (105.1 to 110.8)	1.05 (1.02 to 1.09)	0.011			
Sex											
Female	2,639	102.7 (98.8 to 106.7)	2,478	95.7 (91.9 to 99.5)	2,840	109.9 (105.9 to 114.1)	1.08 (1.02 to 1.13)	0.0068			
Male	2,626	104.2 (100.3 to 108.3)	2,533	99.6 (95.8 to 103.6)	2,691	105.5 (101.5 to 109.6)	1.02 (0.97 to 1.08)	0.37			
Age group	os										
<5	14	6.2 (3.7 to 10.3)	13	5.9 (3.4 to 9.8)	13	5.8 (3.1 to 9.4)	0.93 (0.43 to 1.99)	0.85			
5-9	51	20.8 (15.7 to 27.2)	34	14.1 (10.0 to 19.5)	43	17.5 (12.7 to 23.2)	0.84 (0.56 to 1.26)	0.40			
10-14	257	104.9 (92.8 to 118.5)	245	98.1 (86.4 to 111.0)	342	136.9 (122.9 to 151.9)	1.31 (1.11 to 1.54)	0.0013			
15-19	630	227.0 (209.8 to 245.3)	561	205.9 (189.4 to 223.5)	679	270.0 (250.4 to 291.0)	1.19 (1.07 to 1.33)	0.0017			
20-29	1,296	185.2 (175.3 to 195.6)	1,253	179.3 (169.5 to 189.4)	1,325	188.4 (178.4 to 198.7)	1.02 (0.94 to 1.10)	0.67			
30-39	996	138.1 (129.8 to 147.0)	1,002	135.3 (127.1 to 143.9)	1,104	145.4 (137.0 to 154.2)	1.05 (0.97 to 1.15)	0.24			
40-49	717	110.7 (102.9 to 119.1)	684	105.3 (97.6 to 113.4)	733	112.1 (104.3 to 120.5)	1.01 (0.91 to 1.12)	0.81			
50-59	602	83.0 (76.6 to 89.9)	558	77.4 (71.1 to 84.0)	582	81.2 (74.7 to 88.0)	0.98 (0.87 to 1.10)	0.70			
60-69	359	54.3 (48.9 to 60.1)	336	49.8 (44.7 to 55.5)	359	52.0 (46.8 to 57.6)	0.96 (0.83 to 1.11)	0.57			
70-79	190	45.8 (39.6 to 52.7)	190	43.6 (37.7 to 50.2)	199	43.5 (37.7 to 49.8)	0.95 (0.78 to 1.16)	0.61			
80-89	118	64.4 (53.3 to 76.5)	104	55.2 (45.6 to 66.9)	121	62.3 (52.1 to 74.4)	0.97 (0.75 to 1.25)	0.80			
90+	36	77.5 (54.8 to 105.7)	32	67.3 (47.4 to 94.3)	32	62.1 (42.7 to 85.9)	0.80 (0.50 to 1.29)	0.37			
*Chi-square a	nalysis										

Table S7. Monthly average numbers and rates for mental health-related hospital admissions, in British Columbia (2019-2020)

	Hospital admissions										
		2019		2020		2021*					
	Average monthly	Average monthly	Average monthly	Average monthly	Average monthly	Average monthly					
	number of	rate of admissions	number of	rate of admissions	number of	admissions (per	2021 vs. 2019 Rate				
	admissions	(per 100,000 pop.)	admissions	(per 100,000 pop.)	admissions	100,000 pop.)	Ratio# (95% CI)	P-value			
Overall	1,449	28.5 (27.0 to 30.0)	1,404	27.4 (26.0 to 28.9)	1,493	29.1 (27.6 to 30.6)	1.03 (0.96 to 1.11)	0.41			
Sex	•										
Female	755	29.3 (27.3 to 31.5)	722	27.8 (25.8 to 30.0)	819	31.6 (29.5 to 33.9)	1.08 (0.98 to 1.20)	0.11			
Male	693	27.5 (25.5 to 29.6)	682	27.4 (26.0 to 28.9)	675	26.4 (24.5 to 28.5)	0.97 (0.88 to 1.08)	0.62			
Age grou	ps										
<5	sp	sp	sp	sp	sp	sp	-	-			
5-9	sp	sp	sp	sp	sp	sp	-	-			
10-14	56	23.0 (17.6 to 29.7)	57	22.9 (17.3 to 29.6)	89	35.7 (28.6 to 43.9)	1.55 (1.11 to 2.17)	0.010			
15-19	178	64.0 (55.0 to 73.9)	163	59.8 (51.0 to 69.4)	181	72.1 (62.2 to 83.2)	1.13 (0.92 to 1.39)	0.26			
20-29	332	47.5 (42.6 to 52.8)	330	47.2 (42.3 to 52.5)	348	49.5 (44.6 to 55.0)	1.04 (0.90 to 1.21)	0.58			
30-39	261	36.2 (31.9 to 40.9)	259	35.0 (30.9 to 39.5)	280	36.8 (32.7 to 41.3)	1.02 (0.86 to 1.20)	0.85			
40-49	198	30.6 (26.6 to 35.1)	198	30.5 (26.4 to 34.9)	199	30.5 (26.5 to 35.0)	1.00 (0.82 to 1.21)	0.97			
50-59	184	25.4 (22.0 to 29.3)	177	24.5 (21.1 to 28.3)	168	23.4 (20.0 to 27.1)	0.92 (0.75 to 1.13)	0.433			
60-69	135	20.4 (17.1 to 24.0)	123	18.2 (15.2 to 21.6)	124	18.0 (15.0 to 21.3)	0.88 (0.69 to 1.13)	0.32			
70-79	66	15.8 (12.3 to 20.0)	65	14.9 (11.7 to 19.0)	70	15.2 (11.9 to 19.1)	0.96 (0.69 to 1.35)	0.82			
80-89	29	16.1 (11.0 to 22.7)	26	13.5 (9.0 to 19.6)	25	12.9 (8.7 to 19.0)	0.80 (0.47 to 1.37)	0.42			
90+	sp	sp	sp	sp	sp	sp	-	-			
*Calculated u	using data between Ja	nuary and November 2019/202	0/2021.	•	•		•				

^{*}Chi-square analysis.

sp=Suppressed.

Due to lag in data, hospitalisation data for October-December 2021 were excluded.

Table S8. Monthly average numbers and rates for psychotropic drug dispensations, in British Columbia (2019-2020)

	Psychotropic drug dispensations										
		2019		2020		2021					
	Monthly		Monthly		Monthly						
	average		average		average						
	no. of		no. of		no. of						
	psychotr opic	Monthly average rate	psychotr opic	Monthly average rate	psychotr opic	Monthly average rate					
	drug	of psychotropic drug	drug	of psychotropic drug	drug	of psychotropic drug					
	dispensa	dispensations (per	dispensa	dispensations (per	dispensa	dispensations (per	2021 vs. 2019 Rate				
	tions	1,000 pop.)	tions	1,000 pop.)	tions	1,000 pop.)	Ratio (95% CI)	P-value*			
Overall	441,275	85.9 (85.6 to 86.1)	463,529	88.8 (88.5 to 89.0)	476,817	89.9 (89.6 to 90.2)	1.08 (1.07 to 1.09)	<.0001			
Sex											
Female	271,470	104.6 (104.2 to 105.0)	286,313	108.5 (108.1 to 108.9)	296,054	110.4 (110.0 to 110.8)	1.09 (1.08 to 1.10)	<.0001			
Male	169,804	66.8 (66.5 to 67.1)	177,217	68.6 (68.3 to 68.9)	180,763	68.9 (68.6 to 69.3)	1.06 (1.05 to 1.07)	<.0001			
Age group	ps										
<5	87	0.40 (0.3 to 0.5)	84	0.40 (0.3 to 0.50)	83	0.4 (0.3 to 0.5)	-	-			
5-9	1,048	4.3 (4.1 to 4.6)	1,119	4.6 (4.3 to 4.9)	1,191	4.9 (4.6 to 5.2)	1.13 (1.04 to 1.22)	.0047			
10-14	4,016	16.4 (15.9 to 16.9)	4,580	18.4 (17.9 to 18.9)	5,561	22.3 (21.7 to 22.9)	1.36 (1.31 to 1.42)	<.0001			
15-19	11,402	41.1 (40.3 to 41.8)	12,306	45.2 (44.4 to 46.0)	14,359	57.1 (56.2 to 58.0)	1.39 (1.36 to 1.42)	<.0001			
20-29	38,828	55.5 (54.9 to 56.1)	42,280	60.5 (59.9 to 61.1)	46,177	65.7 (65.1 to 66.3)	1.18 (1.17 to 1.20)	<.0001			
30-39	50,422	69.9 (69.3 to 70.5)	54,832	74.1 (73.4 to 74.7)	58,499	77.0 (76.4 to 77.6)	1.10 (1.09 to 1.11)	<.0001			
40-49	60,262	93.0 (92.3 to 93.8)	62,448	96.2 (95.4 to 96.9)	62,967	96.3 (95.5 to 97.1)	1.04 (1.02 to 1.05)	<.001			
50-59	81,561	112.4 (11.7 to 113.2)	82,689	114.7 (113.9 to 115.5)	80,946	112.9 (112.1 to 113.7)	1.00 (0.99 to 1.01)	.42			
60-69	81,378	123.2 (122.3 to 124.0)	84,778	125.8 (124.9 to 126.6)	85,570	124.2 (123.3 to 125.0)	1.01 (1.00 to 1.03)	.099			
70-79	58,758	142.0 (140.8 to 143.1)	63,226	144.8 (143.7 to 146.0)	65,260	142.9 (141.8 to 144.0)	1.01 (1.00 to 1.02)	.25			
80-89	38,628	210.8 (208.7 to 212.9)	39,846	211.5 (209.4 to 213.6)	40,539	208.5 (206.5 to 210.6)	0.99 (0.98 to 1.00)	.12			
90+	14,884	323.2 (318.1 to 32.4)	15,342	320.2 (315.1 to 325.3)	15,666	305.8 (301.0 to 310.3)	0.95 (0.93 to 0.97)	.0031			
*Chi-square a	nalysis.										

Figure S1. Age-standardized rates (per 1,000 population) for mental health-related outpatient physician visits, by year (2019-2021) and sex, in British Columbia

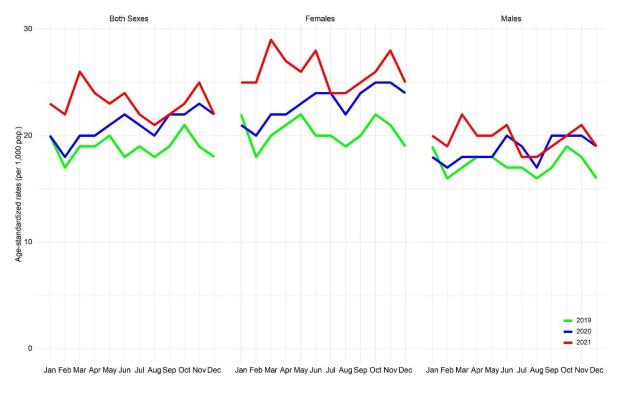


Figure S2. Age-standardized rates (per 1,000 population) for psychotropic drug dispensation, by year (2019-2021) and sex, in British Columbia



Figure S3. Age-standardized rates (per 100,000 population) for mental health-related emergency department visits, by year (2019-2021) and sex, in British Columbia

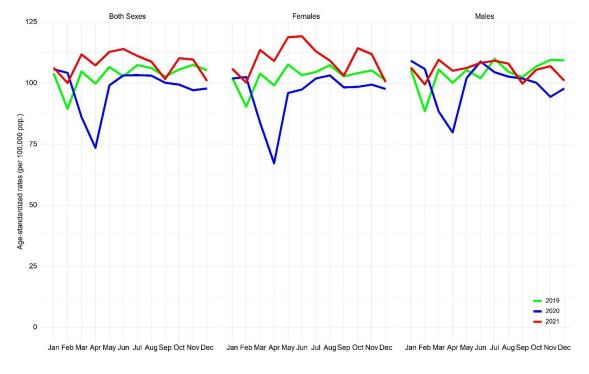
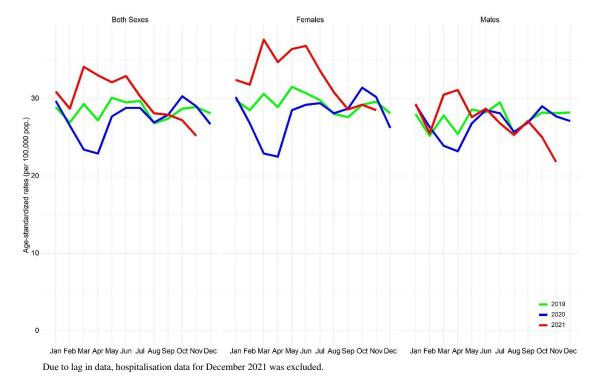


Figure S4. Age-standardized rates (per 100,000 population) for mental health-related hospital admissions, by year (2019-2021) and sex, in British Columbia



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Figure S5. Percent change in monthly average age-specific rates for mental health-related related outpatient physician visits, 2021 versus 2019, in British Columbia, by sex and condition

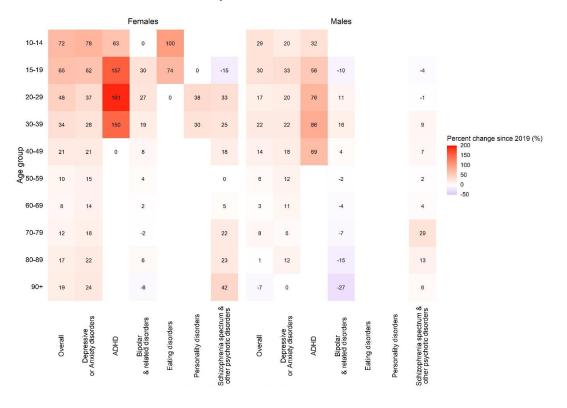


Figure S6. Percent change in monthly average age-specific rates for psychotropic drug dispensations, 2021 versus 2019, in British Columbia, by sex and type of drug

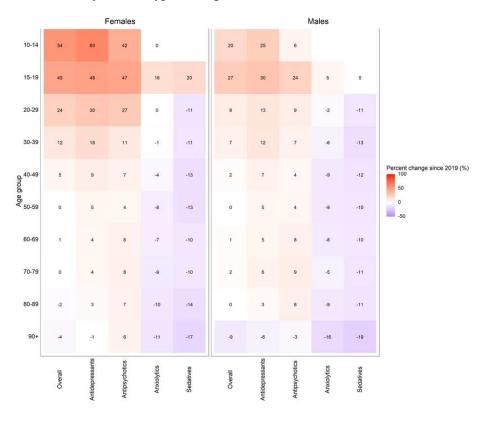
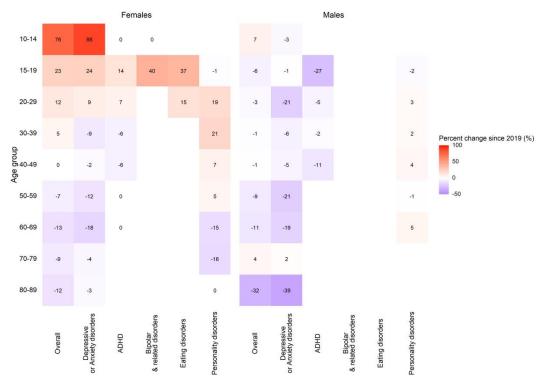


Figure S7. Percent change in monthly average age-specific rates for mental health-related emergency department visits, 2021 versus 2019, in British Columbia, by sex and condition



Figure S8. Percent change in monthly average age-specific rates for mental health-related hospital admissions, 2021 versus 2019, in British Columbia, by sex and condition Table



Due to lag in data, hospitalisation data for December 2021 was excluded.

Figure S9. Age-specific rates (per 1,000 population) for mental health-related outpatient physician visits in British Columbia, by year, sex and condition

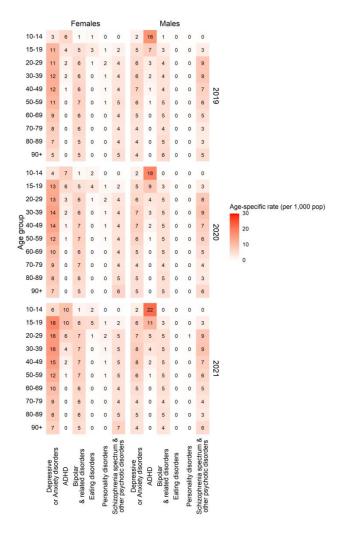


Figure S10. Age-specific rates (per 1,000 population) for psychotropic drug dispensations in British Columbia, by year, sex and condition

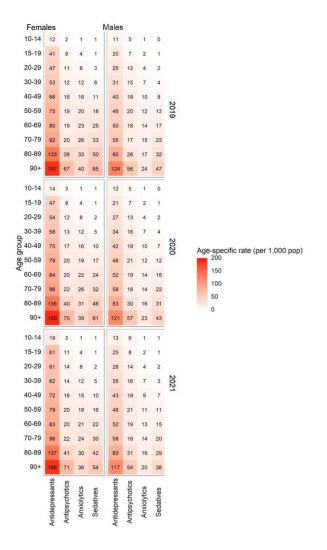


Figure S11. Age-specific rates (per 100,000 population) for mental health-related emergency department visits in British Columbia, by year, sex and condition

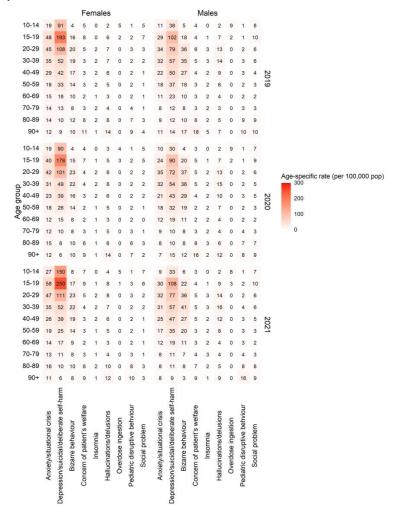
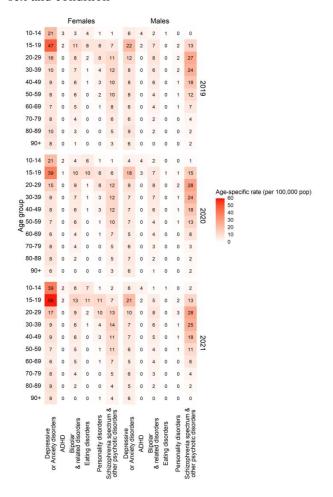


Figure S12. Age-specific rates (per 100,000 population) for mental health-related hospital admissions in British Columbia, by year, sex and condition



Due to lag in data, hospitalisation data for December 2021 was excluded.

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