

Supplement

eTable 1 Ontario Health Insurance Plan and International Classification of Diseases, 8th Revision mental health diagnostic codes and groupings.

Outpatient visit diagnostic codes, Ontario Health Insurance Plan		
Category	Diagnostic Code	Description
Psychotic Disorders	295	Schizophrenia
	296	Manic-depressive psychoses, involuntional melancholia
	297	Other paranoid states
	298	Other psychoses
Mood and anxiety Disorders	300	Anxiety neurosis, hysteria, neurasthenia, obsessive-compulsive neurosis, reactive depression
	301	Personality disorders
	302	Sexual deviations
	306	Psychosomatic illness
	309	Adjustment reaction
	311	Depressive disorder
Substance Use Disorders	303	Alcoholism
	304	Drug dependence
Social Problems	897	Economic problems
	898	Marital difficulties
	899	Parent-child problems
	900	Problems with aged parents or in-laws
	901	Family disruption/divorce
	902	Education problems
	904	Social maladjustment
	905	Occupational problems
	906	Legal problems
Neuro-developmental and other concerns	909	Other problems of social adjustment
	291	Alcoholic psychosis, delirium tremens, Korsakov's psychosis
	292	Drug psychosis
	299	Childhood psychoses (e.g., autism)
	307	Habit spasms, tics, stuttering, tension headaches, anorexia nervosa, sleep disorders,
	313	Behaviour disorders of childhood and adolescence
	314	Hyperkinetic syndrome of childhood
315	Specified delays in development (e.g., dyslexia, dyslalia, motor retardation)	
Other mental health fee codes without diagnostic grouping	Fee code	Description
	K122	Developmental and/or behavioural care - individual developmental and/or behavioural care
	K123	Developmental and/or behavioural care - family developmental and/or behavioural care
	K704	Paediatric outpatient case conference

Virtual Codes	Virtual visits were defined as those with either a location code indicating a virtual visit or that included any of the following virtual supplemental codes that were accompanied by an above mental health or addiction (MHA) diagnosis code (with the exception of K082 that does not require a MHA diagnosis code to be considered an MHA visit: B099, B100, B200, B101, B201, B102, B202, B103, B203, B209, K080, K081, K083)
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eTable 2. Characteristics of physicians and their pediatric patients with outpatient mental health visits in Ontario, overall and stratified by proportion virtual and physician specialty, July 1, 2020 to July 31, 2021. All numbers n (%) unless otherwise specified.

	Family Physician (10,015)			Pediatrician (1,139)			Psychiatrist (903)			
	Proportion Virtual	Mostly In-Person	Hybrid	Exclusively Virtual	Mostly In-Person	Hybrid	Exclusively Virtual	Mostly In-Person	Hybrid	Exclusively Virtual
Physician Characteristics										
No. Physicians	1,073 (10.7)	6,976 (69.7)	1,966 (19.6)	273 (24.0)	798 (70.0)	68 (6.0)	245 (27.1)	401 (44.4)	257 (28.5)	
Age (years)										
Mean ± SD	53.3 ± 13.3	50.0 ± 11.6	50.9 ± 13.2	50.0 ± 11.61	50.7 ± 11.4	54.8 ± 13.8	51.8 ± 11.5	52.1 ± 11.0	57.2 ± 13.0	
≤40	238 (8.8)	1875 (69.5)	583 (21.6)	70 (26.0)	187 (69.5)	12 (4.5)	44 (18.0)	61 (15.2)	35 (13.6)	
41-50	219 (9.1)	1765 (73.7)	410 (17.1)	84 (24.3)	245 (71.0)	16 (4.6)	88 (35.9)	153 (38.2)	55 (21.4)	
51-60	270 (10.4)	1905 (73.2)	427 (16.4)	68 (25.5)	184 (68.9)	15 (5.6)	58 (23.7)	91 (22.7)	44 (17.1)	
61-70	220 (12.3)	1173 (65.6)	394 (22.0)	33 (17.8)	139 (75.1)	13 (7.0)	38 (15.5)	70 (17.5)	85 (33.1)	
71+	126 (23.5)	258 (48.1)	152 (28.4)	18 (24.7)	43 (58.9)	12 (16.4)	17 (6.9)	26 (6.5)	38 (14.8)	
Gender, n (%)										
Female	296 (6.0)	3621 (73.1)	1037 (20.9)	146 (20.9)	509 (72.8)	44 (6.3)	111 (27.8)	178 (44.5)	111 (27.8)	
Male	777 (15.3)	3,355 (66.3)	929 (18.3)	127 (28.9)	289 (65.7)	24 (5.4)	134 (26.6)	223 (44.3)	146 (29.0)	
Location of Graduation, n (%)										
Canada	639 (11.6)	3815 (69.0)	1072 (19.4)	117 (22.5)	367 (70.4)	37 (7.1)	102 (24.8)	179 (45.6)	130 (31.6)	
Foreign	247 (10.5)	1656 (70.6)	442 (18.8)	88 (24.4)	254 (70.4)	19 (5.3)	83 (28.0)	131 (44.3)	82 (27.7)	
Missing	187 (8.7)	1505 (70.2)	452 (21.1)	68 (26.5)	177 (68.9)	12 (4.7)	60 (30.6)	91 (46.4)	45 (23.0)	
Years in Practice, n (%)										
Mean ± SD	22.2 ± 14.2	18.8 ± 13.0	19.7 ± 14.0	16.7 ± 11.7	18.5 ± 12.6	23.7 ± 14.5	17.0 ± 11.8	17.7 ± 12.7	23.5 ± 14.2	
≤10y	286 (8.4)	2428 (71.3)	693 (20.3)	101 (26.6)	262 (69.1)	16 (4.2)	88 (30.4)	143 (49.5)	58 (20.1)	
11-20y	232 (10.3)	1609 (71.6)	405 (18.0)	75 (26.3)	199 (69.8)	11 (3.9)	68 (30.9)	106 (48.1)	46 (20.9)	
>20	555 (12.7)	2939 (67.4)	868 (19.9)	97 (20.4)	337 (70.9)	41 (8.6)	89 (22.6)	152 (38.6)	153 (38.8)	
Region of Practice, n (%)										
Central	279 (8.9)	2174 (69.4)	678 (21.7)	77 (20.5)	276 (73.6)	22 (5.9)	94 (40.1)	88 (37.6)	52 (22.2)	
East	223 (9.0)	1799 (72.3)	466 (18.7)	78-83 (26.8)	203 (67.9)	14-18 (5.4)	39-43 (-)	73 (45.9)	43-47 (-)	
North	129 (19.3)	472 (70.4)	69 (10.3)	0-5	25 (86.2)	0-5	14-19 (-)	20 (46.5)	5-9 (-)	
Toronto	86 (7.7)	661 (59.3)	367 (32.9)	32 (17.8)	130 (72.2)	18 (10)	55 (22.8)	94 (39.0)	92 (38.2)	
West	354 (13.7)	1857 (71.9)	372 (14.4)	80 (31.4)	163 (63.9)	12 (4.7)	38 (17.0)	124 (55.6)	61 (27.3)	
Pre-COVID Mental Health-Related Practice Size										
Median (IQR)	21 (7-45)	37 (23-57)	19 (9-33)	92 (17-256)	254 (84-509)	14 (1-219)	21 (8-54)	115 (24-385)	14 (4-55)	
Mean (SD)	33.7 ± 49.3	43.9 ± 34.6	23.01 ± 20.0	206.7 ± 354.9	355.6 ± 379.8	171.2 ± 331.9	60.1 ± 119.3	286.9 ± 436.9	78.1 ± 206.3	
Pre-COVID Total Practice Size										
Median (IQR)	725 (300-1,535)	524 (325-916)	351 (186-688)	2,768 (1,068-4,880)	2,226 (1,191-3,641)	1,372 (510-2,867)	38 (15-102)	168 (38-474)	17 (6-80)	
Mean (SD)	1,096.5 ± 1,156.6	817.2 ± 946.1	628.9 ± 894.9	3,442.7 ± 2,943.4	2,751.7 ± 2,201.4	1,854.8 ± 1,627.0	94.5 ± 158.2	344.7 ± 463.6	104.1 ± 272.5	
Mental Health-Related Pre-COVID Proportion										
Mean (SD)	0.08 ± 0.15	0.09 ± 0.08	0.09 ± 0.15	0.12 ± 0.22	0.18 ± 0.22	0.17 ± 0.31	0.63 ± 0.29	0.75 ± 0.26	0.81 ± 0.26	
Patient Characteristics										
No. Patients	11,561	127,557	19,848	20,808	132,287	4,749	4,341	40,397	5,724	
Age (years)										
Mean ± SD	12.4 ± 4.0	11.9 ± 4.2	12.1 ± 4.2	9.7 ± 4.2	9.3 ± 4.1	9.9 ± 4.1	14.2 ± 3.0	13.0 ± 3.5	12.9 ± 3.6	
Sex, n (%)										
Female	6130 (7.5)	66745 (82.1)	10689 (13.1)	8825 (15.3)	48748 (84.5)	1608 (2.8)	2555 (10.2)	21274 (84.5)	2916 (11.6)	
Diagnosis Type, n (%)										
Psychotic	139 (12.7)	841 (76.6)	137 (12.5)	76 (39.6)	118 (61.5)	0 (0)	454 (14.6)	2609 (83.9)	158 (5.1)	
Non-Psychotic	7647 (8.9)	71506 (83.2)	8873 (10.3)	3381 (17.0)	15929 (80.1)	893 (4.5)	3148 (10.7)	24353 (83.1)	3101 (10.6)	
Substance use	119 (14.9)	599 (74.8)	115 (14.4)	25 (14.0)	108 (60.3)	48 (26.8)	86 (17.8)	393 (81.2)	23 (4.8)	
Social problems	1061 (16.6)	4787 (74.9)	556 (8.7)	5022 (15.7)	26648 (83.1)	755 (2.4)	22 (5.6)	297 (75.6)	74 (18.8)	
Neurodevelopment/other	2961 (5.6)	44704 (85.1)	5415 (10.3)	13853 (11.5)	104785 (87.3)	3558 (3.0)	871 (4.4)	16699 (84.6)	2581 (13.1)	

Abbreviations: SD=standard deviation, IQR= interquartile range