

Table 1: Number of Psychiatric ED Visits by Diagnosis Category and Year, CY 2010- CY 2018

Psychiatric Diagnosis Category	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Psychiatric Diagnosis Category	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Other	31,303	33,935	37,468	36,763	38,412	37,367	25,980	27,880	28,035	
Affective psychoses	13,457	13,592	13,939	14,465	14,223	16,758	26,044	25,754	25,016	
Schizophrenic psychoses	3,297	3,651	3,790	3,807	4,254	4,877	5,929	6,348	6,725	
Disturbance of conduct, not elsewhere classified	1,206	1,385	1,606	1,453	1,309	1,528	1,832	1,821	1,992	
Specific nonpsychotic MH secondary to organic brain damage	1,185	1,276	1,344	1,374	1,478	1,425	1,457	1,291	1,049	
Disturbance of emotions - childhood and adolescence	378	470	471	444	446	550	561	665	603	
Personality disorders	411	413	456	534	685	529	272	282	251	
Paranoid states	161	205	221	220	266	365	569	651	666	
Psychoses with origin specific to childhood	166	180	197	213	270	358	399	444	481	
Total	51,564	55,107	59,492	59,273	61,343	63,757	63,043	65,136	64,818	

Source: MHCC staff analysis of HSCRC outpatient hospital data, CY 2010- CY 2018.

Notes: Psychiatric visits are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis.

Table 2: Number of Psychiatric ED Visits by Estimated Time in ED and Year, CY 2010- CY 2018

Estimated Time in ED	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Less than 24 hours	50,296	53,636	57,875	57,417	58,966	60,602	59,280	61,044	60,234	
Between 24 and 48 hours	890	1,087	1,195	1,266	1,727	2,120	2,376	2,475	2,609	
2-3 days	190	195	235	275	350	536	700	791	940	
4-8 days	139	154	149	231	250	429	592	715	870	
9-20 days	33	19	21	62	32	49	75	83	130	
20+ days	16	16	17	22	18	21	20	28	35	
Total	51,564	55,107	59,492	59,273	61,343	63,757	63,043	65,136	64,818	

Source: MHCC staff analysis of HSCRC outpatient hospital data, CY 2010- CY 2018.

Notes: Psychiatric visits are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis.

**Table 3: Number of Psychiatric Emergency Department (ED)
Visits for Children By Estimated Time in ED and Year, CY 2010- CY 2018**

Estimated Time in ED	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
Less than 24 hours	2,963	3,285	3,595	3,476	3,510	3,460	3,342	3,500	3,781
Between 24 and 48 hours	31	44	33	54	67	67	103	107	148
2-3 days	7	11	8	12	13	16	24	35	77
4-8 days	3	8	5	8	14	17	30	47	83
9-20 days	2	2	1	1	0	2	4	7	15
20+ days	0	0	2	1	2	0	0	1	2
Total	3,006	3,350	3,644	3,552	3,606	3,562	3,503	3,697	4,106

Source: MHCC staff analysis of HSCRC outpatient data, CY 2010- CY 2018.

Notes: Psychiatric visits are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis. Children are defined as age zero to 12 years of age.

**Table 4: Number of Psychiatric Emergency Department (ED)
Visits for Adolescents By Estimated Time in ED and Year, CY 2010- CY 2018**

Estimated Time in ED	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
Less than 24 hours	6,765	7,046	7,584	7,909	8,276	8,460	7,431	7,431	7,360
Between 24 and 48 hours	142	197	215	221	278	360	330	419	420
2-3 days	26	40	43	53	78	94	121	173	186
4-8 days	17	35	41	61	55	110	148	222	199
9-20 days	3	1	5	13	3	3	16	34	30
20+ days	1	0	1	1	0	2	0	7	3
Total	6,954	7,319	7,889	8,258	8,690	9,029	8,046	8,286	8,198

Source: MHCC staff analysis of HSCRC outpatient data, CY 2010- CY 2018.

Notes: Psychiatric visits are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis. Adolescents are those age 13 to 17 years.

**Table 5: Number of Psychiatric Emergency Department (ED)
Visits for Adults By Estimated Time in ED and Year, CY 2010- CY 2018**

Estimated Time in ED	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
Less than 24 hours	40,568	43,305	46,696	46,032	47,180	48,682	48,507	50,113	49,093
Between 24 and 48 hours	717	846	947	991	1,382	1,693	1,943	1,949	2,041
2-3 days	157	144	184	210	259	426	555	583	677
4-8 days	119	111	103	162	181	302	414	446	588
9-20 days	28	16	15	48	29	44	55	42	85
20+ days	15	16	14	20	16	19	20	20	30
Total	41,604	44,438	47,959	47,463	49,047	51,166	51,494	53,153	52,514

Source: MHCC staff analysis of HSCRC outpatient data, CY 2010- CY 2018.

Notes: Psychiatric visits are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis. Adults are those age 18 years and older.

**Table 6: Number of Psychiatric Emergency Department Visits
Resulting in Admission by Length of Stay and Year, CY 2010- CY 2018**

Length of Stay	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
1 day	2,658	2,313	2,046	1,924	1,787	1,436	1,297	1,138	984	
2 days	3,579	3,391	3,265	3,087	2,940	2,502	2,216	2,186	2,075	
3 days	4,229	4,174	4,133	4,111	3,956	3,502	2,901	3,034	2,996	
4- 8 days	10,499	10,778	10,485	10,498	10,409	9,804	8,760	8,459	8,588	
9-20 days	2,294	2,336	2,306	2,276	2,346	2,346	2,393	2,324	2,484	
20+ days	317	327	350	354	375	490	527	529	668	
Total	23,576	23,319	22,585	22,250	21,813	20,080	18,094	17,670	17,795	

Source: MHCC staff analysis of Health Services Cost Review Commission discharge data for acute care general hospitals, CY 2010- CY 2018.

Notes: Discharges with emergency charges greater than zero are counted. Psychiatric discharges are defined as records with major diagnosis category coded as 19. Developmental Delay is defined as ICD-9 codes: "317" "3180" "3181" "3182" "319" "29900" "29901" "29910" "29980" "29981" "29990"; or ICD-10 codes: F70 "F71" "F72" "F73" "F78" "F79" "F840" "F843" "F845" "F848" "F849".

**Table 7: Number of Psychiatric Emergency Department Visits Resulting
in Admission by Secondary Diagnosis for a Developmental Disability, CY 2010- CY 2018**

Developmental Disability	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
No	22,848	22,683	21,949	21,550	21,160	19,471	17,525	17,083	17,102	
Yes	728	636	636	700	653	609	569	587	693	
Total	23,576	23,319	22,585	22,250	21,813	20,080	18,094	17,670	17,795	

Source: MHCC staff analysis of Health Services Cost Review Commission discharge data for acute care general hospitals, CY 2010- CY 2018.

Notes: Discharges with emergency charges greater than zero are counted. Psychiatric discharges are defined as records with major diagnosis category coded as 19. Developmental Delay is defined as ICD-9 codes: "317" "3180" "3181" "3182" "319" "29900" "29901" "29910" "29980" "29981" "29990"; or ICD-10 codes: F70 "F71" "F72" "F73" "F78" "F79" "F840" "F843" "F845" "F848" "F849".

Table 8: Number of Psychiatric Emergency Department Visits Resulting in Admission Without a Secondary Diagnosis for a Developmental Delay by LOS and Year, CY 2010 - CY 2018

Length of Stay (LOS)	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
1 day	2,603	2,276	2,001	1,888	1,759	1,412	1,271	1,109	962	
2 days	3,490	3,312	3,194	3,017	2,866	2,444	2,159	2,129	2,011	
3 days	4,101	4,084	4,032	3,988	3,854	3,431	2,833	2,952	2,908	
4-8 days	10,167	10,448	10,160	10,147	10,072	9,480	8,480	8,185	8,239	
9-20 days	2,187	2,257	2,229	2,172	2,263	2,240	2,292	2,222	2,358	
20+days	300	306	333	338	346	464	490	486	624	
Total	22,848	22,683	21,949	21,550	21,160	19,471	17,525	17,083	17,102	

Source: MHCC staff analysis of Health Services Cost Review Commission (HSCRC) discharge data for CY 2010- CY 2018.

Notes: Discharges with emergency charges greater than zero are counted. Psychiatric discharges are defined as records with major diagnosis category coded as 19. Developmental Delay is defined as ICD-9 codes: "317" "3180" "3181" "3182" "319" "29900" "29901" "29910" "29980" "29981" "29990"; or ICD-10 codes: F70 "F71" "F72" "F73" "F78" "F79" "F840" "F843" "F845" "F848" "F849".

Table 9: Number of Psychiatric Emergency Department Visits Resulting in Admission With a Secondary Diagnosis for a Developmental Delay by LOS and Year, CY 2010 - CY 2018

Length of Stay (LOS)	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
1 day	55	37	45	36	28	24	26	29	22	
2 days	89	79	71	70	74	58	57	57	64	
3 days	128	90	101	123	102	71	68	82	88	
4-8 days	332	330	325	351	337	324	280	274	349	
9-20 days	107	79	77	104	83	106	101	102	126	
20+days	17	21	17	16	29	26	37	43	44	
Total	728	636	636	700	653	609	569	587	693	

Source: MHCC staff analysis of Health Services Cost Review Commission (HSCRC) discharge data for CY 2010- CY 2018.

Notes: Discharges with emergency charges greater than zero are counted. Psychiatric discharges are defined as records with major diagnosis category coded as 19. Developmental Delay is defined as ICD-9 codes: "317" "3180" "3181" "3182" "319" "29900" "29901" "29910" "29980" "29981" "29990"; or ICD-10 codes: F70 "F71" "F72" "F73" "F78" "F79" "F840" "F843" "F845" "F848" "F849".

Table 10: Number of Psychiatric Emergency Department (ED) Visits by Homeless Status and Year, CY 2010- CY 2018

Homeless Status	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
No	50,258	53,796	57,987	57,705	59,639	61,609	60,597	62,302	61,716
Yes	1,306	1,311	1,505	1,568	1,704	2,148	2,446	2,834	3,102
Total	51,564	55,107	59,492	59,273	61,343	63,757	63,043	65,136	64,818

Source: MHCC staff analysis of Health Services Cost Review Commission outpatient hospital data, CY 2010- CY 2018.

Note: Psychiatric patients are defined by records with a primary diagnosis with an ICD-9 code in the following ranges: 293-302 and 306-319 or a corresponding ICD-10 code. Homeless patients are defined as records with the code V600 or Z590.

Table 11: Number of Psychiatric Emergency Department (ED) Visits by Estimated Time in ED for Patients Who Are Not Homeless by Year, CY 2010- CY 2018

Estimated Time in ED	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
Less than 24 hours	49,073	52,394	56,430	55,917	57,357	58,591	56,999	58,353	57,396
Between 24 hours and 48 hours	823	1,029	1,150	1,213	1,650	2,018	2,262	2,372	2,450
More than 48 Hours	362	373	407	575	632	1,000	1,336	1,577	1,870
Total	50,258	53,796	57,987	57,705	59,639	61,609	60,597	62,302	61,716

Source: MHCC staff analysis of Health Services Cost Review Commission outpatient hospital data.

Note: Estimated time is based on subtracting the date of admission and the end date for each visit. Psychiatric patients are defined by records with an ICD-9 code in the following ranges: 293-302 and 306-319 or a corresponding ICD-10 code. Homeless patients are defined as records with the code V600 or Z590.

Table 12: Number of Psychiatric Emergency Department Visits by Estimated Time in ED for Patients Who Are Homeless by Year, CY 2010- CY 2018

Estimated Time in ED	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
Less than 24 hours	1,223	1,242	1,445	1,500	1,609	2,011	2,281	2,691	2,838
Between 24 hours and 48 hours	67	58	45	53	77	102	114	103	159
More than 48 Hours	16	11	15	15	18	35	51	40	105
Total	1,306	1,311	1,505	1,568	1,704	2,148	2,446	2,834	3,102

Source: MHCC staff analysis of Health Services Cost Review Commission outpatient hospital data, CY 2010- CY 2018.

Note: Estimated time is based on subtracting the date of admission and the end date for each visit. Psychiatric patients are defined by records with an ICD-9 code in the following ranges: 293-302 and 306-319 or a corresponding ICD-10 code. Homeless patients are defined as records with the code V600 or Z590.

Table 13: Number of Hospital Psychiatric Discharges by Homeless Status and Year, CY 2010- CY 2018

Homeless Status	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
No	40,954	42,120	42,300	41,128	40,321	39,604	39,860	37,234	36,530	
Yes	3,796	4,185	4,147	4,552	4,707	5,020	5,532	5,535	5,171	
Total	44,750	46,305	46,447	45,680	45,028	44,624	45,392	42,769	41,701	

Source: MHCC staff analysis of Health Services Cost Review Commission discharge hospital data for acute care general hospitals and private psychiatric hospitals, CY 2010- CY 2018.

Note: Psychiatric patients are defined as records with major diagnostic category (MDC) equal to 19. Homeless patients are defined as records with the code V600 or Z590.

Table 14: Number of Psychiatric Emergency Department Visits by Medication Adherence, CY 2010- CY 2018

Medication Adherence	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
No	50,387	53,853	58,128	57,585	59,417	61,667	60,992	62,866	62,336	
Yes	1,177	1,254	1,364	1,688	1,926	2,090	2,051	2,270	2,482	
Total	51,564	55,107	59,492	59,273	61,343	63,757	63,043	65,136	64,818	

Source: MHCC staff analysis of Health Services Cost Review Commission discharge data, CY 2010- CY 2018.

Note: Records with the following codes indicate a lack of adherence to medication: "V1581" "Z9119" "Z9114" "Z91120" "Z91138." Psychiatric discharges are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code.

Table 15: Number of Psychiatric Emergency Department Visits by Estimated Boarding Time Without Indication for Lack of Medication Adherence, CY 2010- CY 2018

Estimated Time in ED	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
ED_Days						58,687	57,447	59,005	58,077	
Less than 24 hours	49,186	52,448	56,587	55,847	57,180	2,007	2,260	2,327	2,432	
Between 24 hours and 48 hours	848	1,032	1,139	1,179	1,623	973	1,285	1,534	1,827	
More than 48 Hours	353	373	402	559	614	61,667	60,992	62,866	62,336	
Total	50,387	53,853	58,128	57,585	59,417	59,530	51,817	53,192	52,751	

Source: MHCC staff analysis of Health Services Cost Review Commission outpatient data, CY 2010- CY 2018.

Note: Records with the following codes indicate a lack of adherence to medication: "V1581" "Z9119" "Z9114" "Z91120" "Z91138." Psychiatric discharges are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code.

**Table 16: Number of Psychiatric Emergency Department Visits by
Estimated Boarding Time With Indication for Lack of Medication Adherence, CY 2010- CY 2018**

Estimated Time in ED	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Less than 24 hours	1,110	1,188	1,288	1,570	1,786	1,915	1,833	2,039	2,157	
Between 24 hours and 48 hours	42	55	56	87	104	113	116	148	177	
More than 48 Hours	25	11	20	31	36	62	102	83	148	
Total	1,177	1,254	1,364	1,688	1,926	2,090	2,051	2,270	2,482	

Source: MHCC staff analysis of Health Services Cost Review Commission outpatient data, CY 2010- CY 2018.

Note: Records with the following codes indicate a lack of adherence to medication: "V1581" "Z9119" "Z9114" "Z91120" "Z91138." Psychiatric discharges are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code.

**Table 17: Number of Psychiatric ED Visits
With Social Determinants Coded, CY 2016- CY 2018**

Social Determinant Codes	Year		
	2016	2017	2018
No	59,106	60,791	59,189
Yes	3,937	4,345	5,629
Total	63,043	65,136	64,818

Source: MHCC staff analysis of HSCRC outpatient data, CY 2016- CY 2018.

Notes: Psychiatric discharges are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis. Social determinant codes for this analysis are listed in a separate table.

**Table 18: Number of Psychiatric ED Visits
With Zero Social Determinants Coded, CY 2016- CY 2018**

Estimated Time in ED	Year		
	2016	2017	2018
Less than 24 hours	55,656	56,979	55,188
Between 24 hours and 48 hours	2,160	2,284	2,260
More than 48 Hours	1,290	1,528	1,741
Total	59,106	60,791	59,189

Source: MHCC staff analysis of HSCRC outpatient data, CY 2016- CY 2018.

Notes: Psychiatric discharges are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis. Social determinant codes for this analysis are listed in a separate table.

**Table 19: Number of Psychiatric ED Visits
With Social Determinants Coded, CY 2016- CY 2018**

Estimated Time in ED	Year		
	2016	2017	2018
Less than 24 hours	3,624	4,065	5,046
Between 24 hours and 48 hours	216	191	349
More than 48 Hours	97	89	234
Total	3,937	4,345	5,629

Source: MHCC staff analysis of HSCRC outpatient data, CY 2016- CY 2018.

Notes: Psychiatric discharges are defined as those with a primary psychiatric diagnosis in the following ranges for ICD-9 codes: 293-302 and 306-319 or a corresponding ICD-10 code. Records with an emergency department charge greater than zero are counted. Emergency department visits that resulted in admission to the same hospital are captured in HSCRC discharge data and not included in this analysis. Social determinant codes for this analysis are listed in a separate table.

Social Determinants of Health Codes

ICD10	Description
Z550	Illiteracy and low-level literacy
Z551	Schooling unavailable and unattainable
Z552	Failed school examinations
Z553	Underachievement in school
Z554	Educational maladjustment and discord with
Z558	Other problems related to education and li
Z559	Problems related to education and literacy
Z560	Unemployment, unspecified
Z561	Change of job
Z562	Threat of job loss
Z563	Stressful work schedule
Z564	Discord with boss and workmates
Z565	Uncongenial work environment
Z566	Other physical and mental strain related t
Z5681	Sexual harassment on the job
Z5682	Military deployment status
Z5689	Other problems related to employment
Z569	Unspecified problems related to employment
Z570	Occupational exposure to noise
Z571	Occupational exposure to radiation
Z572	Occupational exposure to dust
Z5731	Occupational exposure to environmental tob
Z5739	Occupational exposure to other air contami
Z574	Occupational exposure to toxic agents in a
Z575	Occupational exposure to toxic agents in o
Z576	Occupational exposure to extreme temperatu
Z577	Occupational exposure to vibration
Z578	Occupational exposure to other risk factor
Z579	Occupational exposure to unspecified risk
Z590	Homelessness
Z591	Inadequate housing
Z592	Discord with neighbors, lodgers and landlo
Z593	Problems related to living in residential
Z594	Lack of adequate food and safe drinking wa
Z595	Extreme poverty
Z596	Low income
Z597	Insufficient social insurance and welfare
Z598	Other problems related to housing and econ
Z599	Problem related to housing and economic ci
Z600	Problems of adjustment to life-cycle trans
Z602	Problems related to living alone
Z603	Acculturation difficulty
Z604	Social exclusion and rejection
Z605	Target of (perceived) adverse discriminati
Z608	Other problems related to social environme

Social Determinants of Health Codes (continued)

Z609	Problem related to social environment, uns
Z620	Inadequate parental supervision and contro
Z621	Parental overprotection
Z6221	Child in welfare custody
Z6222	Institutional upbringing
Z6229	Other upbringing away from parents
Z623	Hostility towards and scapegoating of chil
Z626	Inappropriate (excessive) parental pressur
Z62810	Personal history of physical and sexual ab
Z62811	Personal history of psychological abuse in
Z62812	Personal history of neglect in childhood
Z62819	Personal history of unspecified abuse in c
Z62820	Parent-biological child conflict
Z62821	Parent-adopted child conflict
Z62822	Parent-foster child conflict
Z62890	Parent-child estrangement NEC
Z62891	Sibling rivalry
Z62898	Other specified problems related to upbrin
Z629	Problem related to upbringing, unspecified
Z630	Problems in relationship with spouse or pa
Z631	Problems in relationship with in-laws
Z6331	Absence of family member due to military d
Z6332	Other absence of family member
Z634	Disappearance and death of family member
Z635	Disruption of family by separation and div
Z636	Dependent relative needing care at home
Z6371	Stress on family due to return of family m
Z6372	Alcoholism and drug addiction in family
Z6379	Other stressful life events affecting fami
Z638	Other specified problems related to primar
Z639	Problem related to primary support group,
Z640	Problems related to unwanted pregnancy
Z641	Problems related to multiparity
Z644	Discord with counselors
Z650	Conviction in civil and criminal procedin
Z651	Imprisonment and other incarceration
Z652	Problems related to release from prison
Z653	Problems related to other legal circumstan
Z654	Victim of crime and terrorism
Z655	Exposure to disaster, war and other hostil
Z658	Other specified problems related to psycho
Z659	Problem related to unspecified psychosocia