



KENTUCKY INJURY PREVENTION
AND RESEARCH CENTER

Kentucky Resident Behavioral Health Indicators Report, 2019–2023

December 2024

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On behalf of the Kentucky Violence and Injury Prevention Program (KVIPP), Kentucky Advancing Violence Epidemiology in Real Time (KY-AVERT), and Kentucky Overdose Data to Action (OD2A-KY)

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Definitions

	ICD-10	ICD-10-CM Codes
	Fatal	Nonfatal
Self-harm (from CSTE Injury Surveillance Toolkit)	Underlying cause of death code of X60–X84, Y87.0, or U03	In any field: X71–X83; T36–T50 with 6th character = 2 (Note: include T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 with 5th character = 2); T51–T65 with 6th character = 2 (Note: include T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64.0, T64.8, and T65.9 with a 5th character = 2); T71 with 6th character = 2; and T14.91; all codes must have a 7th character of A or missing (reflects initial encounter, active treatment)
Drug overdose (from CSTE Injury Surveillance Toolkit)	Underlying cause of death code of X40–X44, X60–X64, X85, or Y10–Y14	In any field: T36–T50; for T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9, a 5th character; for all others, a 6th character; all codes must have a 7th character of A or missing, excluding adverse effects and underdosing
Veteran/Military status	Veteran/Military Status in the death data is pulled from the self-reported field of Did the decedent ever serve?	Y99.1, Z91.82, Z91.85 or any payer code of Tricare, ChampVA, or VA
Youth	Individuals 17 and under Note: As it is difficult to account for intentionality, suicide-related events only include ages 6-17	Individuals 17 and under Note: As it is difficult to account for intentionality, intentional self-harm-related events only include ages 6-17
Adult	Individuals 18 and older	

Mental and behavioral indicators	ICD-10 Definitions	Notes
Any mental and behavioral disorder	F20–F69, F90–F99, G25.69, or O90.6	A mental and behavioral disorder in any diagnosis field for an encounter in the emergency department data. Mental and behavioral disorders are the primary reason for encounter inpatient hospitalization data.
Anxiety disorders	F40, F41 F43.22, F43.23 F93.0	Anxiety disorders (phobic and non-phobic) Adjustment disorder (with anxiety) or other stress-related anxiety Anxiety disorders specific to childhood
Depression and mood disorders	F32.[A01234589], F33.[0123489], F33.4[01] F34.1, F34.9 F43.21, F43.23 O90.6	Major depressive disorder (single or recurrent episodes) Dysthymia and persistent depressive disorder Adjustment disorders (related to depression) Postpartum depression

Bipolar and manic disorders	F30.[12389], F31.[012345689] F31.7[01357] F34.0	Bipolar disorders (including manic and hypomanic episodes) Bipolar disorder (in remission) Cyclothymic disorder
Obsessive-compulsive disorders	F42	Obsessive-compulsive disorders
Attention-deficit and hyperactivity disorders	F90	Attention-deficit and hyperactivity disorders
Schizophrenia and related disorders	F20.1 F20.5	Schizophrenia, disorganized type Residual schizophrenia
Post-traumatic stress disorder (PTSD) and stress-related disorders	F43	Post-traumatic stress disorder (PTSD), co-occurring adjustment-and stress-related disorders
Eating disorders	F50. [0129], F50.8[129], F98.2[19], F98.3	Anorexia nervosa, bulimia, and other eating disorders (including pica and rumination)
Conduct and impulse control disorders	F43.2[45], F91.[012389], F63.81, F63.[0129], F63.89, F60.2	Conduct disorder, impulse control disorders, antisocial personality disorder
Tic disorders	F95: Tourette syndrome G25.69: Other specified tic disorders	Tourette syndrome Other specified tic disorders
Mental and behavioral disorders due to substance use	F10–F16 or F18–F19 in any field	Mental and behavioral disorders due to substance use in a field for inpatient hospitalizations and emergency department visits. Note mental and behavioral disorders due to substance use may not be the primary reason for the encounters.

Data Sources

Emergency department visits: Kentucky Outpatient Services Database, Office of Data and Analytics, Cabinet for Health and Family Services

Inpatient hospitalizations: Kentucky Inpatient Hospitalization Claims Files, Office of Data and Analytics, Cabinet for Health and Family Services

Deaths: Kentucky Death Certificate Database, Kentucky Office of Vital Statistics, Cabinet for Health and Family Services

Disclaimers

*Due to state data release policy, counts in certain cells of the tables have been suppressed because the observed number of events is very small (a count of at least one but fewer than five) and not appropriate for publication.

^Counts in certain cells of the tables have been suppressed because they could be used to calculate the number in a cell that has been suppressed.

Emergency department visits and inpatient hospitalization counts represent encounters of care and could be greater than the total number of patients treated. To avoid duplicate counts, 1) emergency department visits resulting in inpatient hospitalization or death and 2) inpatient hospitalizations resulting in death have been excluded from this analysis. Data are provisional and subject to change.

Produced by the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health, December 2024. This report is supported by the Centers for Disease Control and Prevention (CDC) of the U.S. Department of Health and Human Services (HHS) as part of cooperative agreements 5NU17CE010064 (totaling \$1,000,000 with 0% financed with nongovernmental sources); 1NU17CE010182-01 (totaling \$400,000 with 0% financed with nongovernmental sources); and 1

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Table 1. Numbers of Suicide Deaths, Intentional Self-Harm Emergency Department Visits and Inpatient Hospitalizations, Kentucky Residents: Demographics, 2019–2023

	Suicide Deaths	Emergency Department Visits	Inpatient Hospitalizations
Race			
Black	227	1,893	1,352
White	3,546	14,866	11,945
Other	83	433	287
Sex			
Female	685	10,595	8,062
Male	3,171	6,597	5,522
Age Group			
6–17	126	5,190	2,466
18–24	405	3,870	2,510
25–34	648	3,255	2,454
35–44	707	2,339	2,327
45–54	613	1,421	1,836
55–64	579	773	1,251
65–74	449	238	518
75+	329	106	222
Veteran/Military Status			
Served	568	282	317
Unknown or Never Served	3,288	16,910	13,267
Injury Mechanism¹			
Drug Poisoning	332	8,323	9,141
Cut/Pierce	44	5,230	2,188
Firearm	2,472	45	212
Other	39	1,459	687
Unspecified	7	1,059	455
Suffocation	886	151	163
Non-Drug Poisoning	-	455	310
Fall	45	94	190
Struck by/Against	-	172	70
Hot Object/Substance	-	109	80
Motor Vehicle Traffic	-	95	88
Drowning	31	-	-

Notes:

- Values if not 0 are included in “other” due to small numbers.

¹Injury Mechanism is based on first listed intentional self-harm injury ICD-10-CM code.

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Table 2. Numbers of Suicide Deaths of Kentucky Residents: Demographics and Year, 2019–2023

	Year					Total
	2019	2020	2021	2022	2023	
Suicide Deaths	727	755	763	806	805	3,856
Race						
Black	35	42	38	55	57	227
White	678	702	707	727	732	3,546
Other	14	11	18	24	16	83
Sex						
Female	154	114	117	143	155	683
Male	573	641	646	663	628	3,151
Age Group						
6-17	23	22	23	29	29	126
18-24	66	82	86	82	89	405
25-34	120	129	131	134	134	648
35-44	141	142	134	155	135	707
45-54	116	115	123	133	126	613
55-64	136	123	101	109	110	579
65-74	83	71	97	89	109	449
75+	42	71	68	75	73	329
Veteran/Military Status						
Served	103	125	111	112	117	568
Unknown or Never Served						
Injury Mechanism						
Firearm	426	494	500	514	538	2,472
Suffocation	199	181	181	175	150	886
Poisoning, Drug and Non-Drug	76	55	55	73	73	332
Fall	8	9	7	7	14	45
Cut/Pierce	9	5	9	12	9	44
Other or Unspecified	9	11	11	25	21	77

Notes:

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Table 3. Numbers of Nonfatal Intentional Self-Harm Injury-Related Inpatient Hospitalizations among Youth and Adult Kentucky Residents, by Age Group, and Year, 2019–2023

		Year					Total
		2019	2020	2021	2022	2023	
Youth		422	434	559	493	558	2,466
	Race						
	Black	73	63	80	78	64	358
	White	335	362	467	406	478	2,048
	Other	14	9	12	9	16	60
	Sex						
	Female	321	357	454	403	437	1,972
	Male	101	77	105	90	121	494
	Age Group						
	6-13	98	121	149	120	147	635
	14–17	324	313	410	373	411	1,831
	Primary Payment						
	Medicaid	201	225	335	291	349	1,401
	Commercial	206	191	198	187	158	967
	Medicare	0	*	0	0	0	*
	Self-Pay/Charity	5	^	12	9	*	^
	Other	10	^	14	6	^	60
	Injury Mechanism¹						
	Drug poisoning	292	289	388	346	351	1666
	Cut/Pierce	87	89	111	84	111	482
	Other	28	37	36	38	41	180
	Unspecified	*	5	^	*	36	57
	Nondrug poisoning	*	5	*	^	9	30
Adult		2,590	2,376	2,161	2,039	1,952	11,118
	Race						
	Black	206	193	204	185	206	994
	White	2,347	2,138	1,917	1,804	1,691	9,897
	Other	37	45	40	50	55	227
	Sex						
	Female	1,395	1,312	1,181	1,142	1,060	6,090
	Male	1,195	1,064	980	897	892	5,028
	Age Group						
	18–24	553	563	524	425	445	2,510
	25–34	576	540	458	461	419	2,454
	35–44	547	483	483	425	389	2,327
	45–54	476	386	324	341	309	1,836
	55–64	284	254	235	234	244	1,251
	65–74	103	108	95	112	100	518

	75+	51	42	42	41	46	222
	Primary Payment						
	Medicaid	1,299	1,286	1,178	1,129	1,059	5,951
	Commercial	662	577	500	403	408	2,550
	Medicare	438	404	356	370	346	1,914
	Self-Pay/Charity	129	61	62	74	87	413
	Other	62	48	65	63	52	290
	Veteran/Military Status						
	Served	51	48	61	51	41	252
	Unknown or Never Served	2,539	2,328	2,100	1,988	1,911	10,866
	Injury Mechanism						
	Drug poisoning	1,755	1,585	1,378	1,417	1,340	7,475
	Cut/pierce	420	404	381	287	214	1,706
	Other	272	273	290	231	193	1,259
	Unspecified	72	57	60	60	149	398
	Nondrug poisoning	71	57	52	44	56	280
Total		3,012	2,810	2,720	2,532	2,510	13,584

Notes:

¹Injury Mechanism is based on first listed intentional self-harm injury ICD-10-CM code.

*Due to state data release policy, counts in certain cells have been suppressed because the observed number of events is very small (a count of at least one but fewer than five) and not appropriate for publication.

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Youth are defined as Kentucky residents 6-17 years of age; adults are ages 18 and older.

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Table 4. Numbers of Nonfatal Intentional Self-Harm Injury-Related Emergency Department Visits among Youth and Adult Kentucky Residents, by Age Group and Year, 2019–2023

		Year					Total
		2019	2020	2021	2022	2023	
Youth		1,010	917	1,186	1,092	985	5,190
	Race						
	Black	84	103	129	101	107	524
	White	899	791	1,008	955	848	4,501
	Other	27	23	49	36	30	165
	Sex						
	Female	765	718	918	828	758	3,987
	Male	245	199	268	264	227	1,203
	Age Group						
	6–9	24	13	20	16	16	89
	10–13	261	239	318	305	240	1,363
	14–17	725	665	848	771	729	3,738
	Primary Payment						
	Medicaid	670	570	774	746	677	3,437
	Commercial	291	305	349	306	273	1,524
	Medicare	0	*	0	0	0	*
	Self-Pay/Charity	28	18	31	25	15	117
	Other	21	^	32	15	20	^
	Injury Mechanism¹						
	Drug Poisoning	454	468	642	588	453	2,605
	Cut/Pierce	354	281	329	303	346	1,613
	Other	138	89	132	111	118	588
	Unspecified	49	45	51	63	47	255
	Nondrug poisoning	15	34	32	27	21	129
Adult		2,623	2,603	2,421	2,219	2,136	12,002
	Race						
	Black	270	316	296	260	227	1,369
	White	2,315	2,243	2,070	1,899	1,838	10,365
	Other	38	44	55	60	71	268
	Sex						
	Female	1,417	1,400	1,374	1,230	1,187	6,608
	Male	1,206	1,203	1,047	989	949	5,394
	Age Group						
	18–24	804	854	819	697	696	3,870
	25–34	741	706	631	625	552	3,255
	35–44	519	503	490	419	408	2,339
	45–54	342	303	268	255	253	1,421
	55–64	166	177	134	152	144	773

	65–74	37	45	57	39	60	238
	75+	14	15	22	32	23	106
	Primary Payment						
	Medicaid	1,366	1,442	1,317	1,251	1,140	6,516
	Commercial	732	651	651	511	529	3,074
	Medicare	259	306	248	241	230	1,284
	Self-Pay/Charity	208	126	136	147	170	787
	Other	58	78	69	69	67	341
	Veteran/Military Status						
	Served	27	51	38	24	30	170
	Unknown or Never Served	2,596	2,552	2,383	2,195	2,106	11,832
	Injury Mechanism¹						
	Drug poisoning	1,272	1,193	1,157	1,082	1,014	5,718
	Cut/pierce	793	810	701	647	666	3,617
	Other	334	376	331	246	25	1,537
	Unspecified	157	159	157	177	154	804
	Nondrug poisoning	67	65	75	67	52	326
Total		3,633	3,520	3,607	3,311	3,121	17,192

Notes:

¹Injury Mechanism is based on first listed intentional self-harm injury ICD-10-CM code.

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Table 5. Numbers of Nonfatal Inpatient Hospitalizations and Emergency Department Visits for Mental and Behavioral Disorders¹ among Youth and Adult Kentucky Residents: Demographics, 2019–2023

		Inpatient Hospitalization¹	Emergency Department, Primary Diagnosis¹	Emergency Department, Any Diagnosis²
Youth		9,131	21,002	73,982
	Race			
	Black	1,168	3,518	10,360
	White	7,789	16,818	61,811
	Other	174	666	1,811
	Sex			
	Female	6,280	11,931	38,589
	Male	2,851	9,071	35,393
	Age Group			
	<10	109	2,322	11,426
	10–13	2,718	6,597	22,391
	14–17	6,304	12,083	40,165
	Primary Payment			
	Medicaid	5,392	15,033	53,752
	Commercial	3,473	5,138	17,670
	Medicare	1	3	37
	Self-Pay/Charity	105	490	1,298
	Other	160	338	1,225
Adult		64,777	132,185	923,458
	Race			
	Black	5,439	19,769	97,681
	White	58,420	109,785	814,437
	Other	918	2,631	11,340
	Sex			
	Female	33,429	70,683	603,989
	Male	31,348	61,502	319,469
	Age Group			
	18–24	10,431	22,804	100,093
	25–34	14,302	32,820	165,643
	35–44	13,772	29,071	175,319
	45–54	11,004	20,246	165,545
	55–64	8,618	14,556	144,768
	65–74	4,238	7,945	97,685
	75+	2,412	4,743	74,405

	Primary Payment			
	Medicaid	33,638	66,524	389,032
	Commercial	11,445	26,362	203,604
	Medicare	17,078	28,775	280,534
	Self-Pay/Charity	1,553	8,365	30,553
	Other	1,063	2,159	19,735
	Veteran/Military Status			
	Served	989	2,194	20,307
	Unknown or Never Served	63,788	129,997	903,151

Notes:

¹Mental and behavioral health conditions were the primary reason for inpatient hospitalizations or emergency department visits. These include any of the following ICD-10-CM codes: F20–F69, F90–F99, G25.69, or O90.6.

²Mental and behavioral health conditions may not be the primary reason for emergency department visits.

Youth are defined as Kentucky residents 17 years of age and younger; adults are ages 18 and older.

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Table 6. Numbers of Nonfatal Inpatient Hospitalizations for Mental and Behavioral Disorders among Youth and Adult Kentucky Residents by Diagnosis, and Age Group, 2019–2023

	Diagnosis¹	Inpatient Hospitalization²	Emergency Department, Primary Diagnosis²	Emergency Department, Any Diagnosis³
Youth				
	Anxiety disorders	5,481	5,490	25,297
	Depression and mood disorders	6,949	5,525	19,115
	Bipolar and manic disorders	502	251	2,878
	Obsessive-compulsive disorders	379	43	783
	Attention-deficit and hyperactivity disorders	2,735	669	31,887
	Schizophrenia and related disorders	103	55	411
	Post-traumatic stress disorder (PTSD) and stress-related disorders	2,977	1,718	4,956
	Autism	455	0	3,207
	Eating disorders	733	171	556
	Conduct and impulse control disorders	1,880	3,026	5,814
	Tic disorders	148	264	913
Adult				
	Anxiety disorders	30,709	66,169	577,593
	Depression and mood disorders	34,198	20,533	378,482
	Bipolar and manic disorders	14,338	5,293	104,296
	Obsessive-compulsive disorders	1,276	278	5,862
	Attention-deficit and hyperactivity disorders	3,095	100	34,284
	Schizophrenia and related disorders	15,320	10,975	52,205
	Post-traumatic stress disorder (PTSD) and stress-related disorders	15,374	12,046	55,612
	Autism	996	0	3,490
	Eating disorders	376	137	1,053
	Conduct and impulse control disorders	2,315	1,703	5,123
	Tic disorders	146	88	1,255

Notes:

¹Diagnosis based on first listed mental and behavioral disorder ICD-10-CM code.

²Mental and behavioral health conditions were the primary reason for inpatient hospitalizations or emergency department visits. These include any of the following ICD-10-CM codes: F20–F69, F90–F99, G25.69, or O90.6.

³Mental and behavioral health conditions may not be the primary reason for emergency department visits.

Youth are defined as Kentucky residents 17 years of age and younger; adults are ages 18 and older.

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Table 7. Numbers of Nonfatal Inpatient Hospitalizations for Mental and Behavioral Disorders¹ among Youth and Adult Kentucky Residents: Demographics by Year, 2019–2023

		Year					Total
		2019	2020	2021	2022	2023	
Youth		1,893	1,548	1,795	1,817	2,078	9,131
	Race						
	Black	259	208	224	222	255	1,168
	White	1,592	1,311	1,527	1,565	1,794	7,789
	Other	42	29	44	30	29	174
	Sex						
	Female	1,284	1,074	1,273	1,274	1,375	6,280
	Male	609	474	522	543	703	2,851
	Age Group						
	<10	14	20	20	20	35	109
	10–13	595	441	551	540	591	2,718
	14–17	1,284	1,087	1,224	1,257	1,452	6,304
	Primary Payment						
	Medicaid	991	815	1,100	1,150	1,336	5,392
	Commercial	845	689	644	608	687	3,473
	Medicare	0	0	0	*	0	*
	Self-Pay/Charity	31	17	23	^	^	^
	Other	26	27	28	37	42	160
Adult		14,492	13,244	12,950	11,607	12,484	64,777
	Race						
	Black	1,168	1,140	1,135	960	1,036	5,439
	White	13,177	11,946	11,638	10,445	11,214	58,420
	Other	147	158	177	202	234	918
	Sex						
	Female	7,590	6,769	6,660	5,959	6,451	33,429
	Male	6,902	6,475	6,290	5,648	6,033	31,348
	Age Group						
	18–24	2,288	2,138	2,094	1,883	2,028	10,431
	25–34	3,143	2,974	2,942	2,524	2,719	14,302
	35–44	2,983	2,785	2,836	2,450	2,718	13,772
	45–54	2,639	2,191	2,167	1,924	2,083	11,004
	55–64	1,957	1,772	1,658	1,600	1,631	8,618
	65–74	920	894	794	814	816	4,238
	75+	562	490	459	412	489	2,412
	Primary Payment						
	Medicaid	6,621	6,786	6,944	6,359	6,928	33,638
	Commercial	3,064	2,502	2,201	1,785	1,893	11,445
	Medicare	4,111	3,506	3,305	3,034	3,122	17,078
	Self-Pay/Charity	491	219	269	255	319	1,553

	Other	205	231	231	174	222	1,063
	Veteran/Military Status						
	Served	191	209	221	167	201	989
	Unknown or Never Served	14,301	13,035	12,729	11,440	12,283	63,788
Total		16,385	14,792	14,745	13,424	14,562	73,908

Notes

*Due to state data release policy, counts in certain cells have been suppressed because the observed number of events is very small (a count of at least one but fewer than five) and not appropriate for publication.

^Counts in certain cells have been suppressed because they could be used to calculate the number in a cell that has been suppressed.

¹Mental and behavioral health conditions were the primary reason for inpatient hospitalizations. These include any of the following ICD-10-CM codes: F20–F69, F90–F99, G25.69, or O90.6.

Youth are defined as Kentucky residents 17 years of age and younger; adults are ages 18 and older.

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 8. Numbers of Nonfatal Inpatient Hospitalizations for Mental and Behavioral Disorders among Youth and Adult Kentucky Residents by Diagnosis¹, Age Group, and Year, 2019–2023

Diagnosis	Year					Total
	2019	2020	2021	2022	2023	
Youth						
Anxiety disorders	954	841	1,132	1,200	1,354	5,481
Depression and mood disorders	1,424	1,174	1,405	1,418	1,528	6,949
Bipolar and manic disorders	105	75	89	85	148	502
Obsessive-compulsive disorders	48	43	95	92	101	379
Attention-deficit and hyperactivity disorders	490	428	504	584	729	2,735
Schizophrenia and related disorders	16	11	31	19	26	103
Post-traumatic stress disorder (PTSD) and stress-related disorders	405	420	514	713	925	2,977
Autism	93	64	87	79	132	455
Eating disorders	82	91	148	190	222	733
Conduct and impulse control disorders	356	321	342	410	451	1,880
Tic disorders	14	23	30	38	43	148
Adult						
Anxiety disorders	6,104	6,231	6,403	5,828	6,143	30,709
Depression and mood disorders	8,046	7,011	6,539	6,069	6,533	34,198
Bipolar and manic disorders	3,025	2,921	2,844	2,628	2,920	14,338
Obsessive-compulsive disorders	252	214	293	248	269	1,276
Attention-deficit and hyperactivity disorders	541	544	660	642	708	3,095
Schizophrenia and related disorders	3,250	3,107	3,303	2,759	2,901	15,320
Post-traumatic stress disorder (PTSD) and stress-related disorders	3,339	3,120	3,129	2,790	2,996	15,374
Autism	152	182	207	197	258	996
Eating disorders	60	56	96	78	86	376
Conduct and impulse control disorders	494	554	446	410	411	2,315
Tic disorders	31	31	33	22	29	146

Notes:

¹Diagnosis based on first listed mental and behavioral disorder ICD-10-CM code.

Youth are defined as Kentucky residents 17 years of age and younger; adults are ages 18 and older. Mental and behavioral health conditions were the primary reason for inpatient hospitalizations.

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 9. Numbers of Nonfatal Emergency Department Visits with Mental and Behavioral Disorders among Youth and Adult Kentucky Residents: Demographics by Year, 2019–2023

		Year					Total
		2019	2020	2021	2022	2023	
Youth		20,443	13,074	12,496	14,500	13,469	73,982
	Race						
	Black	3,254	1,725	1,495	2,061	1,825	10,360
	White	16,774	11,069	10,719	12,012	11,237	61,811
	Other	415	280	282	427	407	1,811
	Sex						
	Female	10,149	6,757	6,818	7,666	7,199	38,589
	Male	10,294	6,317	5,678	6,834	6,270	35,393
	Age Group						
	<10	3,568	1,999	1,719	2,129	2,011	11,426
	10–13	6,370	3,953	3,792	4,350	3,926	22,391
	14–17	10,505	7,122	6,985	8,021	7,532	40,165
	Primary Payment						
	Medicaid	14,879	9,356	9,039	10,563	9,915	53,752
	Commercial	4,735	3,274	3,050	3,476	3,135	17,670
	Medicare	17	14	*	*	*	37
	Self-Pay/Charity	447	197	^	^	^	1,298
	Other	365	233	215	241	171	1,225
Adult		234,859	187,751	170,243	168,874	161,731	923,458
	Race						
	Black	26,069	19,873	16,841	17,779	17,119	97,681
	White	206,442	165,880	151,312	148,703	142,100	814,437
	Other	2,348	1,998	2,090	2,392	2,512	11,340
	Sex						
	Female	157,019	121,761	110,364	110,372	104,473	603,989
	Male	77,840	65,990	59,879	58,502	57,258	319,469
	Age Group						
	18–24	25,562	20,288	18,649	18,216	17,378	100,093
	25–34	42,863	34,511	30,638	29,456	28,175	165,643
	35–44	45,383	36,860	32,814	30,639	29,623	175,319
	45–54	43,363	34,766	30,408	29,176	27,832	165,545
	55–64	36,707	29,213	26,670	26,985	25,193	144,768
	65–74	22,799	18,486	17,971	19,635	18,794	97,685
	75+	18,182	13,627	13,093	14,767	14,736	74,405
	Primary Payment						
	Medicaid	96,039	80,932	72,883	71,611	67,567	389,032
	Commercial	52,204	41,274	37,536	37,232	35,358	203,604
	Medicare	71,109	56,074	51,803	51,914	49,634	280,534

	Self-Pay/Charity	10,224	5,374	4,499	4,726	5,730	30,553
	Other	5,283	4,097	3,522	3,391	3,442	19,735
	Veteran/Military Status						
	Served	5,320	4,378	3,742	3,520	3,347	20,307
	Unknown or Never Served	229,539	183,373	166,501	165,354	158,384	903,151
Total		255,302	200,825	182,739	183,374	175,200	997,440

Notes:

*Due to state data release policy, counts in certain cells have been suppressed because the observed number of events is very small (a count of at least one but fewer than five) and not appropriate for publication.

^Counts in certain cells have been suppressed because they could be used to calculate the number in a cell that has been suppressed.

Youth are defined as Kentucky residents 17 years of age and younger; adults are ages 18 and older.

Mental and behavioral health conditions may not be the primary reason for emergency department visits. These include any of the following ICD-10-CM codes: F20–F69, F90–F99, G25.69, or O90.6.

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Table 10. Numbers of Nonfatal Emergency Department Visits with a Mental and Behavioral Disorder among Youth and Adult Kentucky Residents by Diagnosis¹, Age Group, and Year, 2019–2023

Diagnosis	Year					Total
	2019	2020	2021	2022	2023	
Youth						
Anxiety disorders	6,314	4,426	4,237	5,084	5,236	25,297
Depression and mood disorders	4,874	3,349	3,540	3,897	3,455	19,115
Bipolar and manic disorders	1,002	546	470	460	400	2,878
Obsessive-compulsive disorders	253	135	132	128	135	783
Attention-deficit and hyperactivity disorders	10,470	5,874	4,590	5,970	4,983	31,887
Schizophrenia and related disorders	143	76	66	67	59	411
Post-traumatic stress disorder (PTSD) and stress-related disorders	1,256	875	792	955	1,078	4,956
Autism	854	549	481	70	616	3,207
Eating disorders	105	67	101	135	148	556
Conduct and impulse control disorders	1,660	923	1,060	1,105	1,066	5,814
Tic disorders	199	151	194	183	186	913
Adult						
Anxiety disorders	144,776	116,247	104,931	106,789	104,850	577,593
Depression and mood disorders	103,185	76,745	68,770	69,089	60,693	378,482
Bipolar and manic disorders	28,229	22,104	18,418	18,308	17,237	104,296
Obsessive-compulsive disorders	1,452	1,213	1,097	1,036	1,064	5,862
Attention-deficit and hyperactivity disorders	8,368	6,692	5,614	6,769	6,841	34,284
Schizophrenia and related disorders	11,856	10,968	9,975	9,957	9,449	52,205
Post-traumatic stress disorder and stress-related disorders	13,890	11,518	9,972	9,805	10,427	55,612
Autism	682	635	601	714	858	3,490
Eating disorders	217	177	224	189	246	1,053
Conduct and impulse control disorders	1,195	1,025	924	957	1,022	5,123
Tic disorders	272	207	244	267	265	1,255

Notes:

¹Diagnosis based on first listed mental and behavioral disorder ICD-10-CM code.

Youth are defined as Kentucky residents 17 years of age and younger; adults are ages 18 and older. Mental and behavioral health conditions may not be the primary reason for emergency department visits. Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the

Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 11. Numbers of Nonfatal Inpatient Hospitalizations and Emergency Department Visits for Mental and Behavioral Disorders due to Substance Use among Kentucky Adult Residents: Demographics, 2019–2023

	Inpatient Hospitalization ¹	Emergency Department Visits, Primary Diagnosis ¹	Emergency Department Visits, Any Diagnosis ²
Race			
Black	2,576	15,709	49,101
White	28,010	89,631	275,037
Other	459	2,245	5,341
Sex			
Female	9,360	34,460	122,749
Male	21,685	73,125	20,6730
Age Group			
18–24	1,377	11,646	33,672
25–34	6,654	27,731	80,403
35–44	8,583	28,732	84,751
45–54	6,873	19,368	61,383
55–64	5,406	15,109	48,124
65–74	1,774	4,125	16,271
75+	378	874	4,875
Primary Payment			
Medicaid	18,728	66,539	200,593
Commercial	5,519	15,704	48,097
Medicare	5,222	12,767	48,675
Self-Pay/Charity	1,067	10,591	25,827
Other	509	1,984	6,287
Veteran/Military Status			
Served	433	1,430	4,330
Unknown or Never Served	30,612	106,155	325,149
Total	31,045	107,585	329,479

Notes:

¹Mental and behavioral health conditions were the primary reason for inpatient hospitalizations or emergency department visits. These include any of the following ICD-10-CM codes: F10–F16 or F18–F19

²Mental and behavioral health conditions may not be the primary reason for emergency department visits.

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 12. Numbers of Nonfatal Inpatient Hospitalizations and Emergency Department Visits for Mental and Behavioral Disorders associated with Substance Use among Kentucky Adult Residents by Diagnosis and Year, 2019–2023

Diagnosis¹	Inpatient Hospitalization ²	Emergency Department Visits, Primary Diagnosis ²	Emergency Department Visits, Any Diagnosis ³
Alcohol dependence	17,689	13,580	30,481
Other	4,589	22,094	69,796
Opioid addiction and dependence	3,614	5,458	21,930
Alcohol abuse	2,656	35,690	73,132
Other stimulant abuse	1,545	12,412	31,425
Other psychoactive substance use, unspecified	952	2,776	7,881
Other psychoactive substance abuse	475	11,838	48,412
Cannabis abuse	150	2,148	17,626
Alcohol abuse with intoxication, unspecified	104	1,589	28,796

Notes:

¹Diagnosis based on first listed mental and behavioral disorder due to substance use ICD-10-CM code.

²Mental and behavioral health conditions were the primary reason for inpatient hospitalizations or emergency department visits. These include any of the following ICD-10-CM codes: F10–F16 or F18–F19.

³Mental and behavioral health conditions may not be the primary reason for emergency department visits. These include any of the following ICD-10-CM codes: F10–F16 or F18–F19.

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Table 13. Numbers of Nonfatal Inpatient Hospitalizations for Mental and Behavioral Disorders associated with Substance Use among Kentucky Adult Residents: Demographics by Year, 2019–2023

	Year					Total
	2019	2020	2021	2022	2023	
Race						
Black	357	429	574	579	637	2,576
White	5,563	5,405	5,846	5,472	5,724	28,010
Other	36	74	102	101	146	459
Sex						
Female	1,904	1,736	1,980	1,850	1,890	9,360
Male	4,052	4,172	4,542	4,302	4,617	21,685
Age Group						
18–24	280	273	293	263	268	1,377
25–34	1,445	1,231	1,408	1,297	1,273	6,654
35–44	1,602	1,675	1,827	1,710	1,769	8,583
45–54	1,295	1,322	1,423	1,391	1,442	6,873
55–64	997	1,018	1,136	1,035	1,220	5,406
65–74	265	318	369	380	442	1,774
75+	72	71	66	76	93	378
Primary Payment						
Medicaid	3,378	3,553	3,928	3,810	4,059	18,728
Commercial	1,180	1,099	1,297	987	956	5,519
Medicare	1,041	1,024	1,015	1,077	1,065	5,222
Self-Pay/Charity	259	134	191	191	292	1,067
Other	98	98	91	87	135	509
Veteran/Military Status						
Served	80	88	81	69	115	433
Unknown or Never Served	5,876	5,820	6,441	6,083	6,392	30,612
Total	5,956	5,908	6,522	6,152	6,507	31,045

Note:

Mental and behavioral disorders associated with substance use are the primary reason for an inpatient hospitalization. These include any of the following ICD-10-CM codes: F10–F16 or F18–F19.

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Table 14. Numbers of Nonfatal Inpatient Hospitalizations for Mental and Behavioral Disorders associated with Substance Use among Kentucky Adult Residents by Diagnosis¹ and Year, 2019–2023

Diagnosis	Year					Total
	2019	2020	2021	2022	2023	
Alcohol dependence	3,211	3,460	3,613	3,631	3,774	17,689
Other	1,013	891	998	870	817	4,589
Opioid addiction and dependence	847	648	745	659	715	3,614
Alcohol abuse	259	388	623	585	801	2,656
Other stimulant abuse	363	335	337	230	280	1,545
Other psychoactive substance use, unspecified	263	186	206	177	120	952

Notes:

¹Diagnosis based on first listed mental and behavioral disorder due to substance use ICD-10-CM code.

Mental and behavioral disorders associated with substance use are the primary reason for an inpatient hospitalization. These include any of the following ICD-10-CM codes: F10–F16 or F18–F19.

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Table 15. Numbers of Nonfatal Emergency Department Visits for a Mental or Behavioral Disorder associated with Substance Use among Kentucky Adult Residents: Demographics by Year, 2019–2023

	Year					Total
	2019	2020	2021	2022	2023	
Race						
Black	10,066	9,386	9,681	9,452	10,516	49,101
White	57,759	54,711	54,521	52,143	55,903	275,037
Other	735	811	1,130	1,196	1,469	5,341
Sex						
Female	25,959	23,471	24,037	23,817	25,465	122,749
Male	42,601	41,437	41,295	38,974	42,423	206,730
Age Group						
18–24	6,977	6,571	6,693	6,400	7,031	33,672
25–34	17,844	16,737	16,133	14,664	15,025	80,403
35–44	17,602	17,161	17,475	15,615	16,898	84,751
45–54	12,813	12,067	11,894	11,782	12,827	61,383
55–64	9,729	8,943	9,098	9,626	10,728	48,124
65–74	2,740	2,622	3,228	3,618	4,063	16,271
75+	855	807	811	1,086	1,316	4,875
Primary Payment						
Medicaid	40,363	40,682	40,128	38,784	40,636	200,593
Commercial	9,924	9,082	10,501	8,684	9,906	48,097
Medicare	9,692	9,202	9,394	9,849	10,538	48,675
Self-Pay/Charity	7,235	4,805	4,176	4,174	5,437	25,827
Other	1,346	1,137	1,133	1,300	1,371	6,287
Veteran/Military Status						
Served	957	816	784	838	935	4,330
Unknown or Never Served	67,603	64,092	64,548	61,953	66,953	325,149
Total	68,560	64,908	65,332	62,791	67,888	329,479

Note:

Mental and behavioral disorders associated with substance use may not be the primary reason for an emergency department visit.

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 16. Numbers of Nonfatal Emergency Department Visits for Mental and Behavioral Disorders associated with Substance Use among Kentucky Adult Residents by Diagnosis¹ and Year, 2019–2023

Diagnosis	Year					Total
	2019	2020	2021	2022	2023	
Alcohol dependence	6,797	6,177	6,017	5,868	5,622	30,481
Other	25,644	23,912	26,356	25,290	29,830	131,032
Alcohol abuse with intoxication, unspecified	3,816	4,535	5,298	7,333	7,814	28,796
Alcohol abuse	17,127	15,199	13,647	13,400	13,759	73,132
Cannabis use	4,336	3,634	3,766	2,775	3,115	17,626
Other psychoactive substance use, unspecified	10,840	11,451	10,248	8,125	7,748	48,412

Notes:

¹Diagnosis based on first listed mental and behavioral disorder due to substance use ICD-10-CM code. These include any of the following: F10–F16 or F18–F19 in any field. Mental and behavioral disorders associated with substance use may not be the primary reason for an emergency department visit.

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Table 17. Numbers of Drug Overdose Deaths, Nonfatal Drug Overdose Inpatient Hospitalizations and Emergency Department Visits among Kentucky Adult Residents: Demographics, 2019–2023

	Drug Overdose Death	Emergency Department Visits	Inpatient Hospitalizations
Race			
Black	1,022	5,312	1,975
White	8,559	41,352	18,379
Other	125	781	340
Sex			
Female	3,217	19,992	10,847
Male	6,489	27,453	9,847
Age Group			
18–24	526	6,472	2,538
25–34	2,062	13,869	3,796
35–44	2,853	12,117	4,060
45–54	2,220	6,924	3,709
55–64	1,591	4,587	3,417
65–74	386	2,037	1,911
75+	68	1,439	1,263
Veteran/Military Status			
Served	582	550	455
Unknown or Never Served	9,124	46,895	20,239
Diagnosis¹			
Other and unspecified drugs, medicaments, and biological substances		7,554	2,898
Benzodiazepines		1,814	1,724
Psychostimulants		2,037	1,685
Opioids		4,209	1,577
Narcotics and psychodysleptics		12,054	1,211
Other		19,777	11,599

Notes:

¹Diagnosis based on first listed drug overdose ICD-10-CM code.

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 18. Numbers of Drug Overdoses Deaths among Kentucky Adult Residents: Demographics by Year, 2019–2023

	Year					Total
	2019	2020	2021	2022	2023	
Race						
Black	105	171	230	253	263	1,022
White	1,188	1,767	1,996	1,895	1,713	8,559
Other	20	20	19	38	28	125
Sex						
Female	482	601	733	746	655	3,217
Male	831	1,357	1,512	1,440	1,349	6,489
Age Group						
18–24	65	124	130	112	95	526
25–34	298	463	485	446	370	2,062
35–44	366	572	675	659	581	2,853
45–54	325	404	495	516	480	2,220
55–64	198	304	372	347	370	1,591
65–74	45	75	82	89	95	386
75+	16	16	6	17	13	68
Veteran/Military Status						
Served	84	120	139	118	121	582
Unknown or Never Served	1,229	1,838	2,106	2,068	1,883	9,124
Total	1,313	1,958	2,245	2,186	2,004	9,706

Note:

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 19. Numbers of Nonfatal Drug Overdose Inpatient Hospitalizations among Kentucky Adult Residents: Demographics by Year, 2019–2023

	Year					Total
	2019	2020	2021	2022	2023	
Race						
Black	360	380	427	380	428	1,975
White	4,100	4,058	3,624	3,353	3,244	18,379
Other	54	58	64	78	86	340
Sex						
Female	2,427	2,367	2,163	1,999	1,891	10,847
Male	2,087	2,129	1,952	1,812	1,867	9,847
Age Group						
18–24	551	559	522	453	453	2,538
25–34	851	873	738	675	659	3,796
35–44	846	918	851	739	706	4,060
45–54	856	787	715	695	656	3,709
55–64	731	746	672	635	633	3,417
65–74	381	375	374	379	402	1,911
75+	298	238	243	235	249	1,263
Primary Payment						
Medicaid	2,084	2,317	2,114	1,959	1,883	10,357
Medicare	1,302	1,195	1,020	1,071	1,061	5,649
Commercial	811	784	768	578	570	3,511
Self-Pay/Charity	213	126	120	110	145	714
Other	104	74	93	93	99	463
Veteran/Military Status						
Served	98	75	95	91	96	455
Unknown or Never Served	4,416	4,421	4,020	3,720	3,662	20,239
Total	4,514	4,496	4,115	3,811	3,758	20,694

Note:

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 20. Numbers of Nonfatal Drug Overdose Inpatient Hospitalizations among Kentucky Adult Residents by Diagnosis¹ and Year, 2019–2023

Diagnosis	Year					Total
	2019	2020	2021	2022	2023	
Other and unspecified drugs, medicaments, and biological substances	498	593	586	524	697	2,898
Benzodiazepines	409	385	375	294	261	1,724
Psychostimulants	375	352	388	334	236	1,685
Opioids	290	334	300	310	343	1,577
Narcotics and psychodysleptics	267	329	289	196	130	1,211
Other	2,675	2,503	2,177	2,153	2,091	11,599

Notes:

¹Diagnosis based on first listed drug overdose ICD-10-CM code.

Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change. December 2024.

Table 21. Numbers of Nonfatal Drug Overdose Emergency Department Visits among Kentucky Adult Residents: Demographics by Year, 2019–2023

	Year					Total
	2019	2020	2021	2022	2023	
Race						
Black	839	1,150	1,115	1,149	1,059	5,312
White	8,170	9,380	9,226	7,637	6,939	41,352
Other	115	136	165	187	178	781
Sex						
Female	3,984	4,320	4,381	3,729	3,578	19,992
Male	5,140	6,346	6,125	5,244	4,598	27,453
Age Group						
18–24	1,221	1,436	1,425	1,272	1,118	6,472
25–34	2,998	3,374	3,031	2,418	2,048	13,869
35–44	2,208	2,752	2,793	2,318	2,046	12,117
45–54	1,266	1,470	1,542	1,321	1,325	6,924
55–64	798	1,006	1,018	913	852	4,587
65–74	336	380	435	426	460	2,037
75+	297	248	262	305	327	1,439
Primary Payment						
Medicaid	5,173	6,503	6,242	5,429	4,720	28,067
Commercial	1,259	1,483	1,736	1,308	1,225	7,011
Medicare	1,320	1,375	1,452	1,286	1,282	6,715
Self-Pay/Charity	1,217	1,141	899	749	754	4,760
Other	155	164	177	201	195	892
Veteran/Military Status						
Served	95	113	121	108	113	550
Unknown or Never Served	9,029	10,553	10,385	8,865	8,063	46,895
Total	9,124	10,666	10,506	8,973	8,176	47,445

Note:

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Table 22. Numbers of Nonfatal Drug Overdose Emergency Department Visits among Kentucky Adult Residents by Diagnosis¹ and Year, 2019–2023

Diagnosis	Year					Total
	2019	2020	2021	2022	2023	
Other and unspecified drugs, medicaments, and biological substances	1,166	1,501	1,851	1,557	1,479	7,554
Benzodiazepines	379	443	447	271	274	1,814
Psychostimulants	477	447	458	360	295	2,037
Opioids	514	803	970	1,043	879	4,209
Narcotics and psychodysleptics	3,136	3,571	2,611	1,625	1,111	12,054
Other	3,452	3,901	4,169	4,117	4,138	19,777

Notes:

¹Diagnosis based on first listed drug overdose ICD-10-CM code.

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