



**KENTUCKY INJURY PREVENTION
AND RESEARCH CENTER**

Kentucky Resident Inpatient Hospitalizations for Nonfatal Drug Overdoses, 2016–2020

Annual Report, 09/13/2021

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Released by

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Suggested Citation

Steel, M., Mirzaian, M. (2021). *Kentucky Resident Inpatient Hospitalizations for Nonfatal Drug Overdoses, 2016–2020*. Kentucky Injury Prevention and Research Center.



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About this Report

This report presents the burden of inpatient hospitalizations due to nonfatal drug overdoses among Kentucky residents from 2016–2020. The data source for the Kentucky resident data in this report is the Kentucky Inpatient Hospitalization Claims Files, Office of Health Data and Analytics, Cabinet for Health and Family Services. Data are provisional and subject to change. This report was supported by Cooperative Agreement Number NU17CE924971-02-01, funded by the Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the Department of Health and Human Services.

Events represent encounters of care and may be greater than the total number of Kentucky residents hospitalized for a nonfatal drug overdose. Non-Kentucky residents admitted to Kentucky hospitals are not included in the numbers of events. This report also does not include events for Kentucky residents who were admitted to a hospital located outside of the Commonwealth. These limitations result in a likely undercount of all drug overdose inpatient hospitalizations that occurred in Kentucky or among Kentucky residents.

Numbers less than five and rates based on numbers less than 10 were suppressed in accordance with state data management policy. Rates based on numbers less than 20 are unstable and should be interpreted with caution.

Definitions

This report conforms to the standards set by the Council of State and Territorial Epidemiologists (CSTE) for identifying injury events using hospital records. The identification of a drug overdose hospitalization was based on ICD-10-CM codes listed under any diagnosis category and did not rely solely on the primary diagnosis. Drug overdoses of all intents (i.e., unintentional, suicide, homicide, undetermined) were included in this report, unless otherwise stated. Only events representing initial encounters were included in this report, as determined by a seventh character in the ICD-10-CM code of “A” or missing.

The following ICD-10-CM codes were used to identify drug overdoses:

DRUG TYPE	ICD-10-CM CODE
All Drugs	T36.X–T50.X
All Opioids	T40.0–T40.4, T40.6
All Stimulants	T40.5, T43.6
Heroin	T40.1
Prescription (RX) Opioids	T40.0, T40.2–T40.3
Synthetic Opioids	T40.4
Benzodiazepines	T42.4
Cocaine	T40.5
Cannabis	T40.7
Other Psychostimulants	T43.6

Executive Summary

Total Visits

- The number of statewide inpatient hospitalizations for all nonfatal drug overdoses in Kentucky in 2020 was approximately equal to the number in 2019 (4,915 to 4,908 hospitalizations). The number of hospitalizations for a stimulant overdose decreased slightly from 2019 to 2020 (629 to 590 hospitalizations, respectively) while the number of hospitalizations for an opioid overdose increased over that same period (1,183 to 1,308 hospitalizations, respectively).

Sex

- For this five year period, approximately 45% of those who were admitted to the hospital for any nonfatal drug overdose were male. Men, however, are the majority of patients hospitalized for an opioid or stimulant overdose (51% and 60%, respectively).

Race

- The majority of patients who experienced a nonfatal drug overdose during this five-year period were white (90%). This proportion is higher than what would be expected based on their representation in Kentucky's general population (87%). For nonfatal opioid overdoses, the percentage of encounters with white patients was higher than their representation in the general population (93%, vs 87% in the general population). The proportion of nonfatal stimulant overdoses among individuals who were white is approximately equivalent to their representation in the general population (87% for both measures).
- Kentucky hospitals did not see a significant percentage increase in admissions for nonfatal drug overdoses among both white and black patients from 2019 to 2020 (1.8% and -0.4% for black and white patients, respectively). There was also an approximately equal percentage increase in the populations of black and white patients hospitalized for opioid overdoses (9.2% and 9.1% for black and white patients, respectively). A major disparity appears when examining the percentage increase in hospitalizations from 2019 to 2020 for a stimulant overdose among black patients compared to white patients (16% and -10%, respectively)

Drug Types

- The numbers of nonfatal drug overdose ED visits involving synthetic opioids increased in 2020 to 239 visits from 189 visits in 2019, a 26.4% increase. Admissions for nonfatal drug overdoses involving heroin also increased from 2019 to 2020 (335 admissions in 2019 to 397 admissions in 2020), though the percent increase (19.5%) was not as high as that for synthetic opioids. Annual admissions for nonfatal drug overdoses involving other drug types either decreased or remained approximately equal from 2019 to 2020.

Seasonality

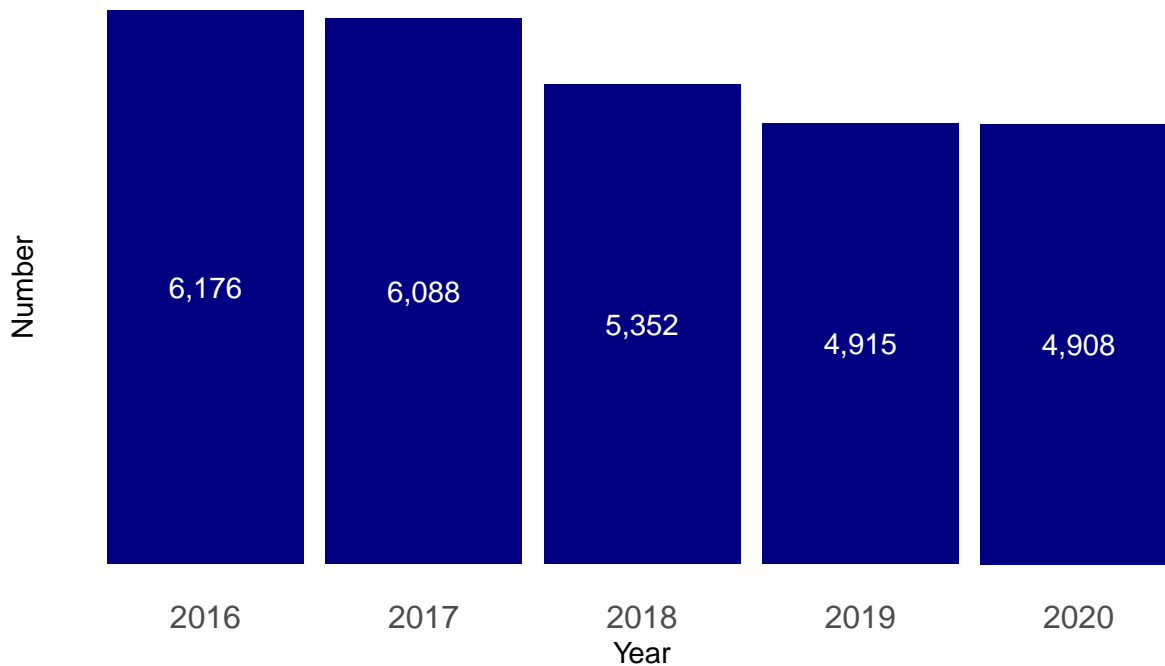
- Generally, the monthly numbers of inpatient hospitalizations for nonfatal drug overdoses peaked around early to mid-summer, compared to the other seasons of the year during this study period. Still, admissions remained relatively steady throughout the year.

County Ranking

- In 2020, the five counties with the highest age-adjusted rates for nonfatal drug overdoses were Anderson County (95.2 admissions per 100,000 residents, n=22), Kenton County (94.7 admissions per 100,000 residents, n=162), Mercer County (94.4 admissions per 100,000 residents, n=19), Carter County (91.0 admissions per 100,000 residents, n=22), and McCreary County (88.8 admissions per 100,000 residents, n=15). Rates based on numbers less than 20 are unstable and should be interpreted with caution. Carroll County (98.7 visits per 100,000 residents, n=10), Fleming County (94.7 admissions per 100,000 residents, n=14), Owen County (91.0 admissions per 100,000 residents, n=10), Butler County (89.7 admissions per 100,000 residents, n=10), and Larue County (88.9 admissions per 100,000 residents, n=13) were excluded from this list due to low numbers of events (n<15).

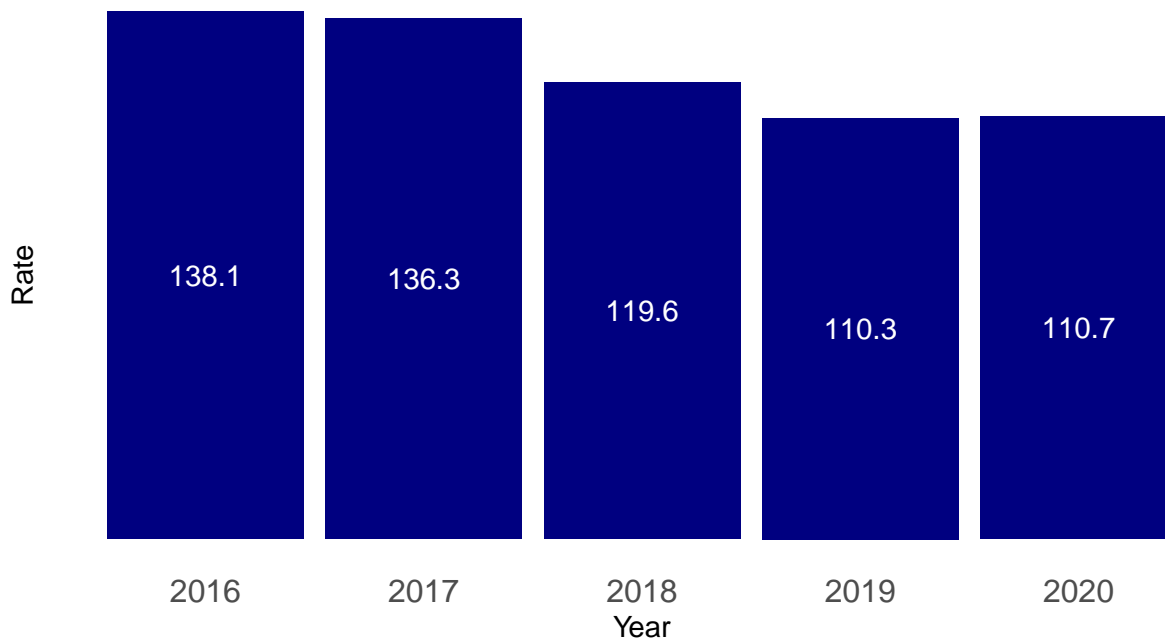
All Drugs

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents, 2016–2020



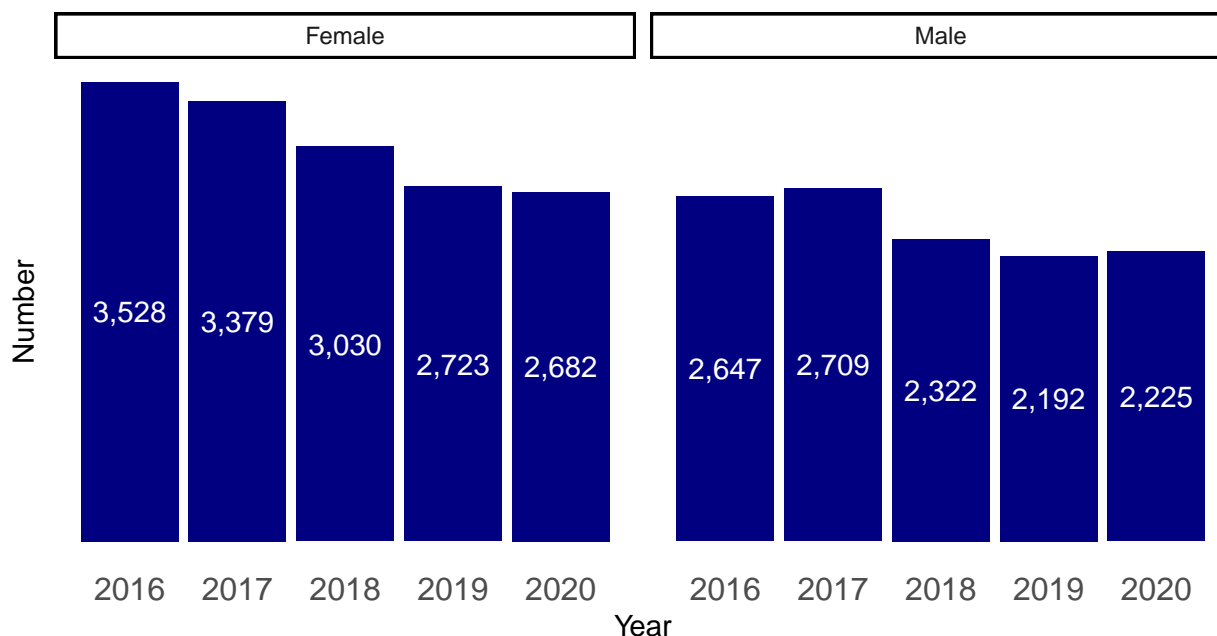
Produced by the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change.

Annual Age-Adjusted Rates of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents, 2016–2020



Rates are presented as number of events per 100,000 population.
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.

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Sex, 2016–2020

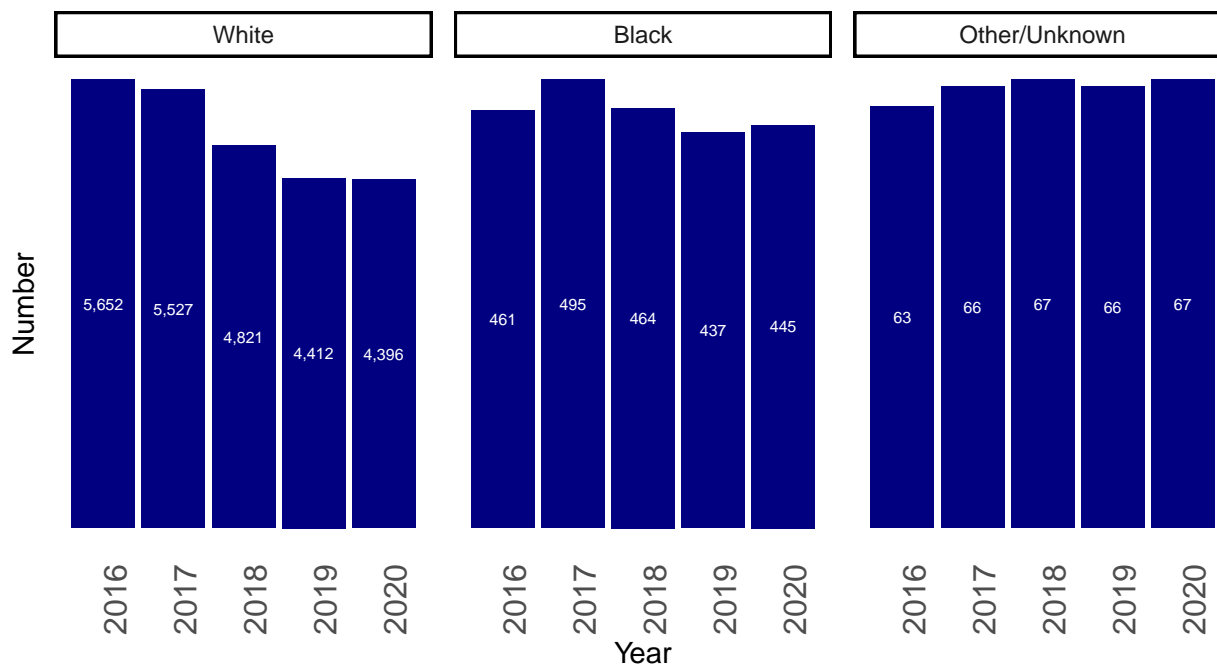


Patients with unknown sex were excluded from this analysis (n = <5).

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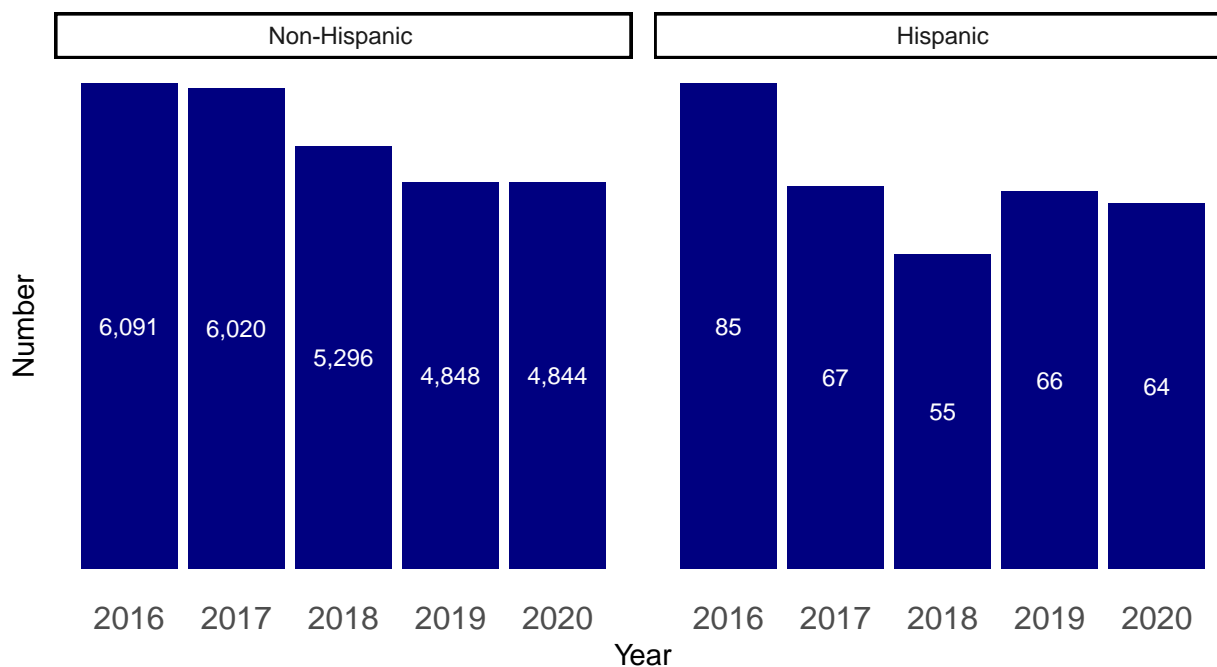
Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Race, 2016–2020



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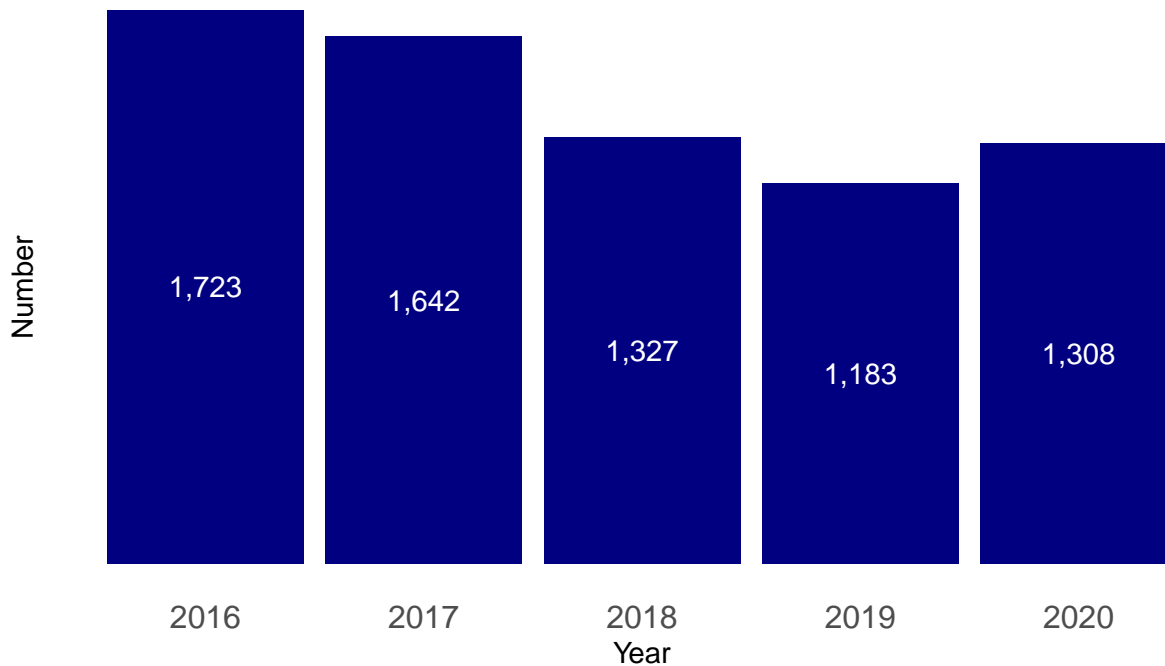
Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Ethnicity, 2016–2020



Patients with unknown ethnicity were excluded from this analysis (n = 7).
 Produced by the Kentucky Injury Prevention and Research Center as bona fide agent
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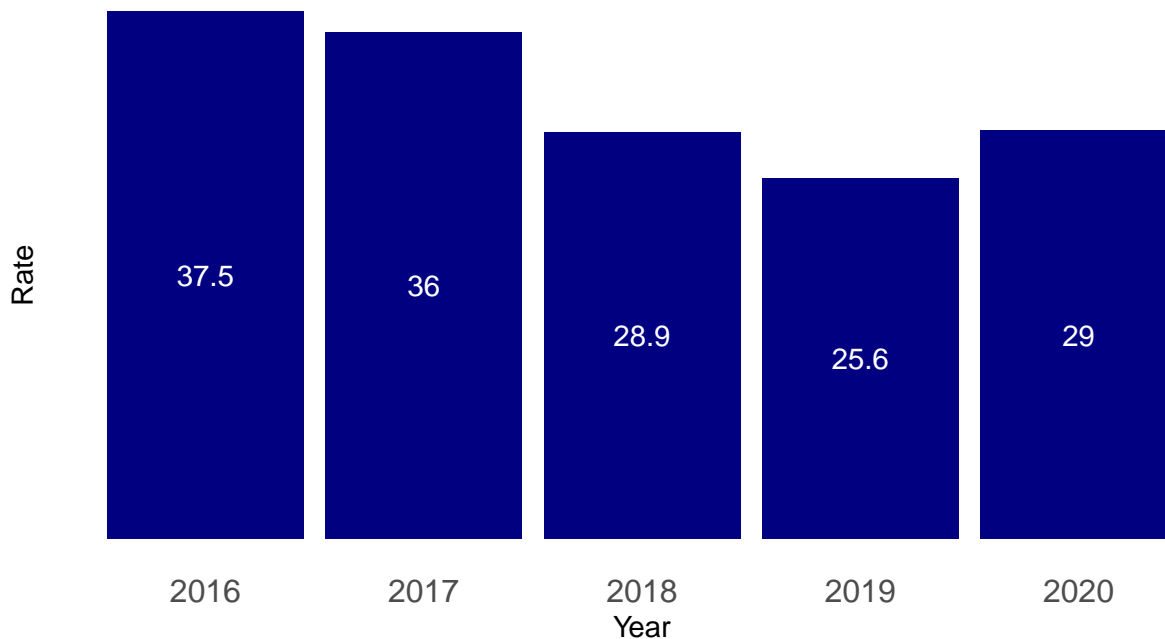
All Opioids

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Opioid Overdose among Kentucky Residents, 2016–2020



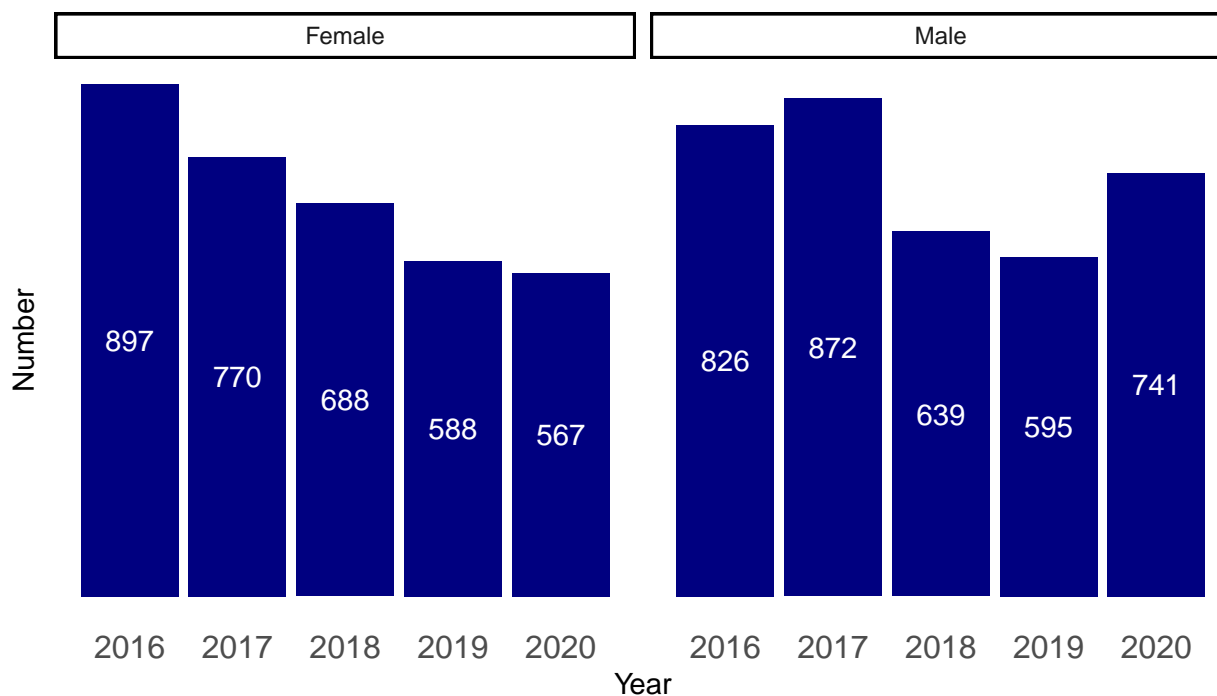
Produced by the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change.

Annual Age-Adjusted Rates of Inpatient Hospitalizations for a Nonfatal Opioid Overdose among Kentucky Residents, 2016–2020



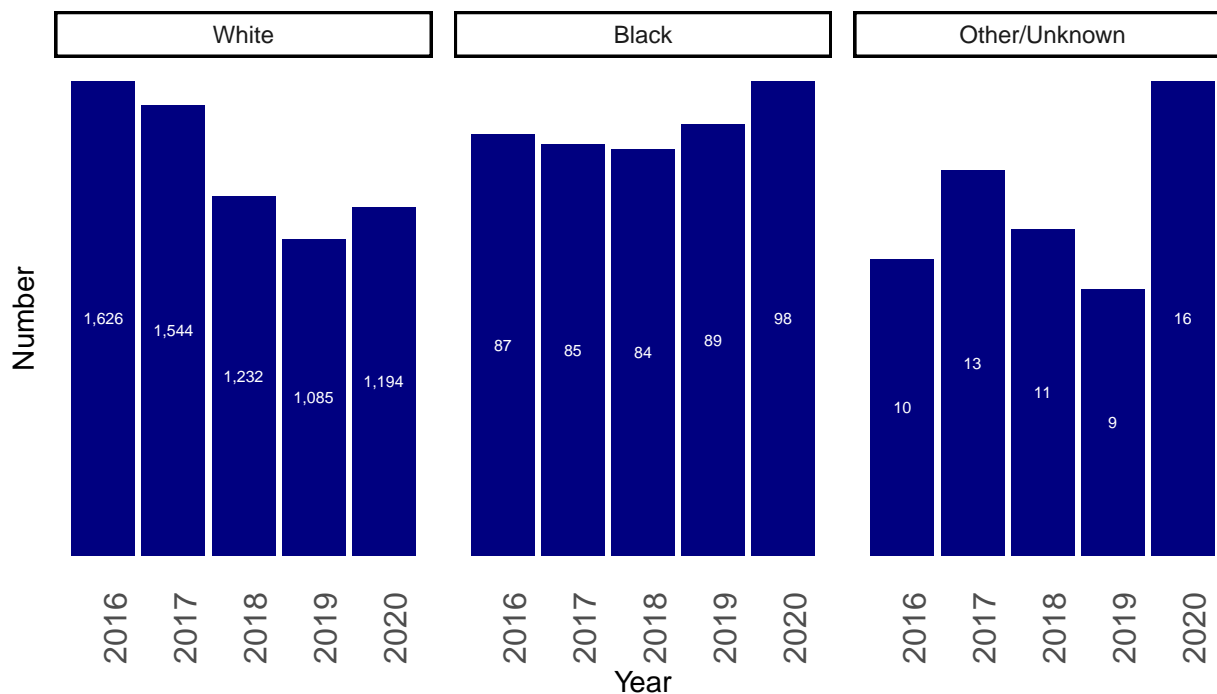
Rates are presented as number of events per 100,000 population.
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Annual Numbers of Inpatient Hospitalizations for a Nonfatal Opioid Overdose among Kentucky Residents by Sex, 2016–2020



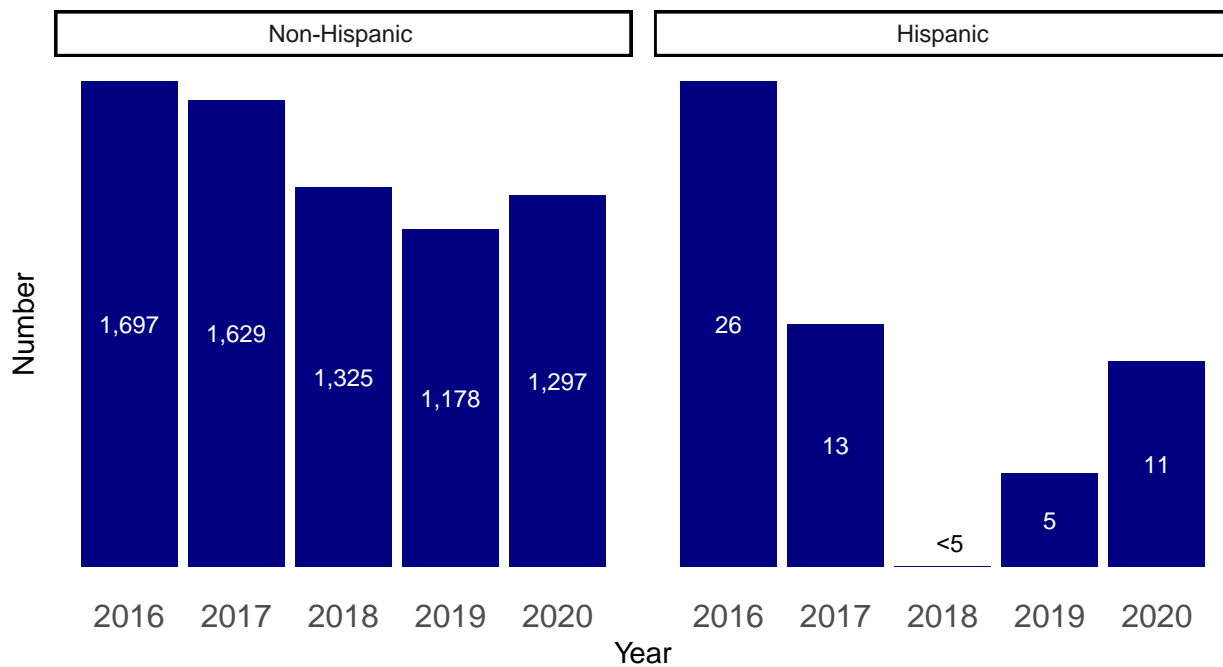
Produced by the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change.

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Opioid Overdose among Kentucky Residents by Race, 2016–2020



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.

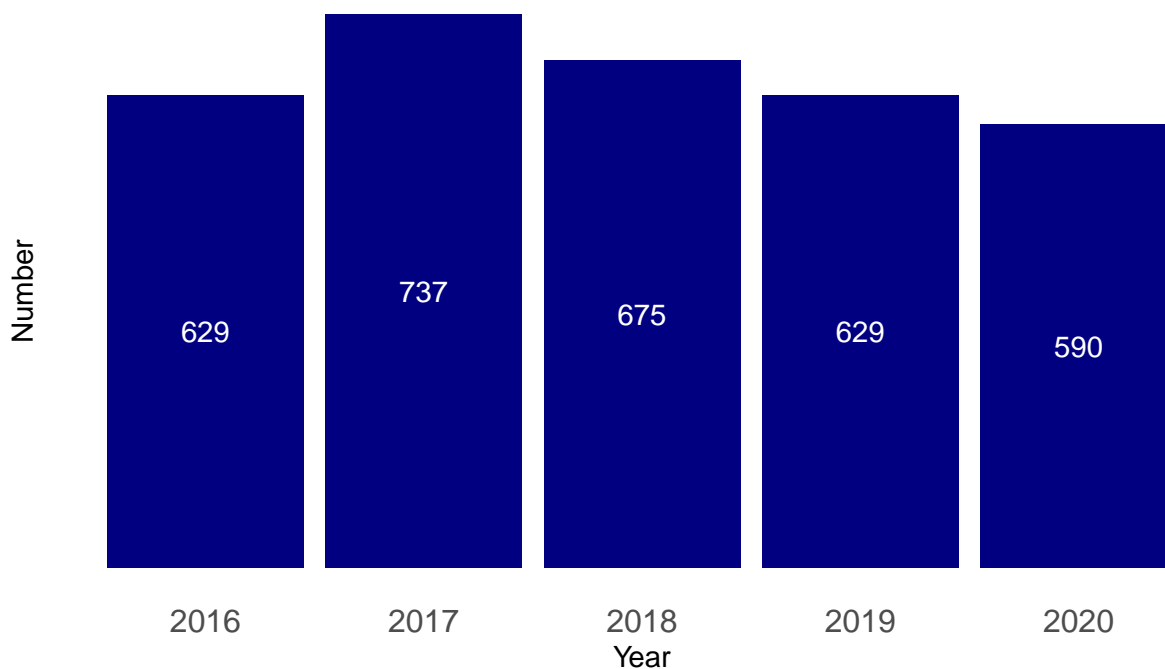
Annual Numbers of Inpatient Hospitalizations for a Nonfatal Opioid Overdose among Kentucky Residents by Ethnicity, 2016–2020



Numbers less than five are suppressed in accordance with state data management policy.
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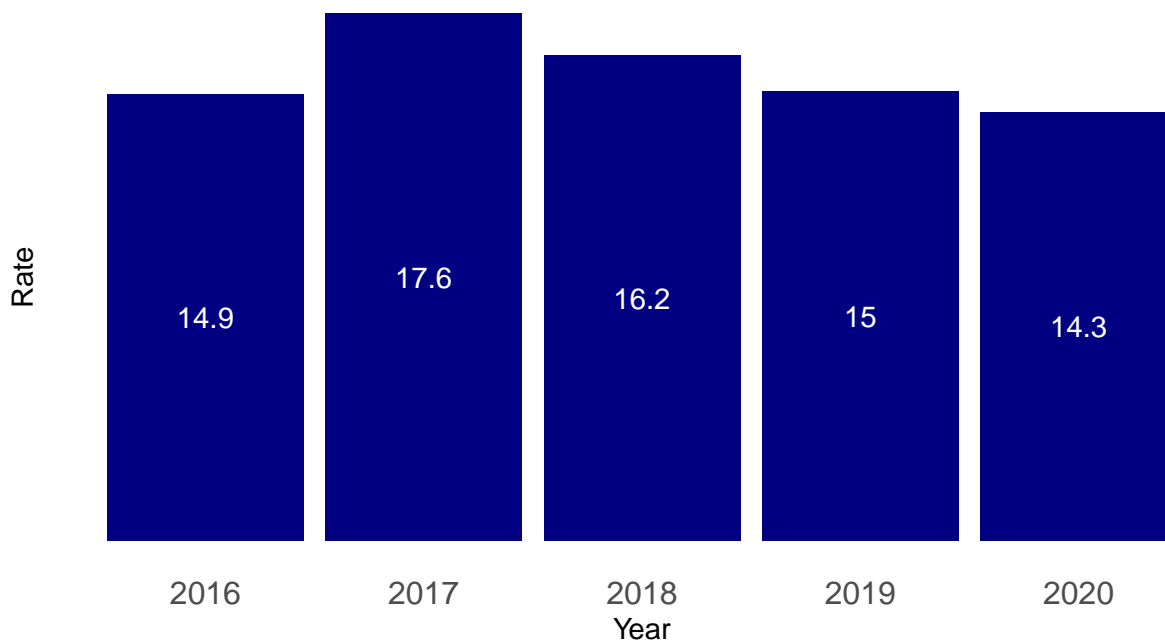
All Stimulants

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Stimulant Overdose among Kentucky Residents, 2016–2020



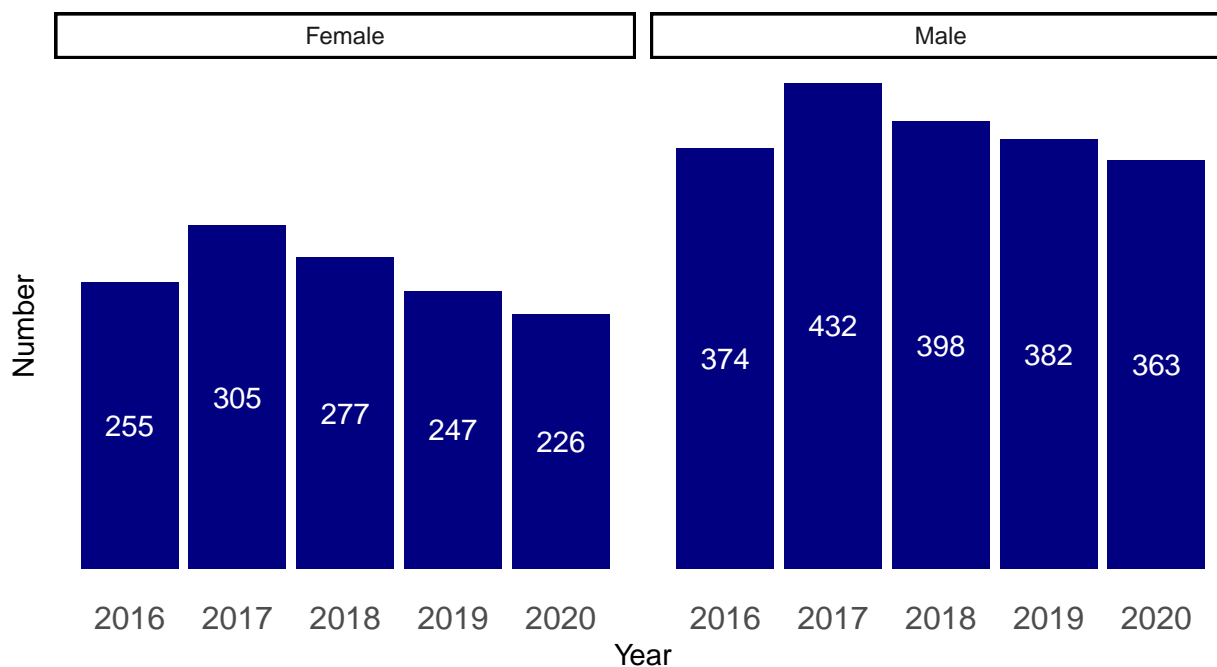
Produced by the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health. Data are provisional and subject to change.

Annual Age-Adjusted Rates of Inpatient Hospitalizations for a Nonfatal Stimulant Overdose among Kentucky Residents, 2016–2020



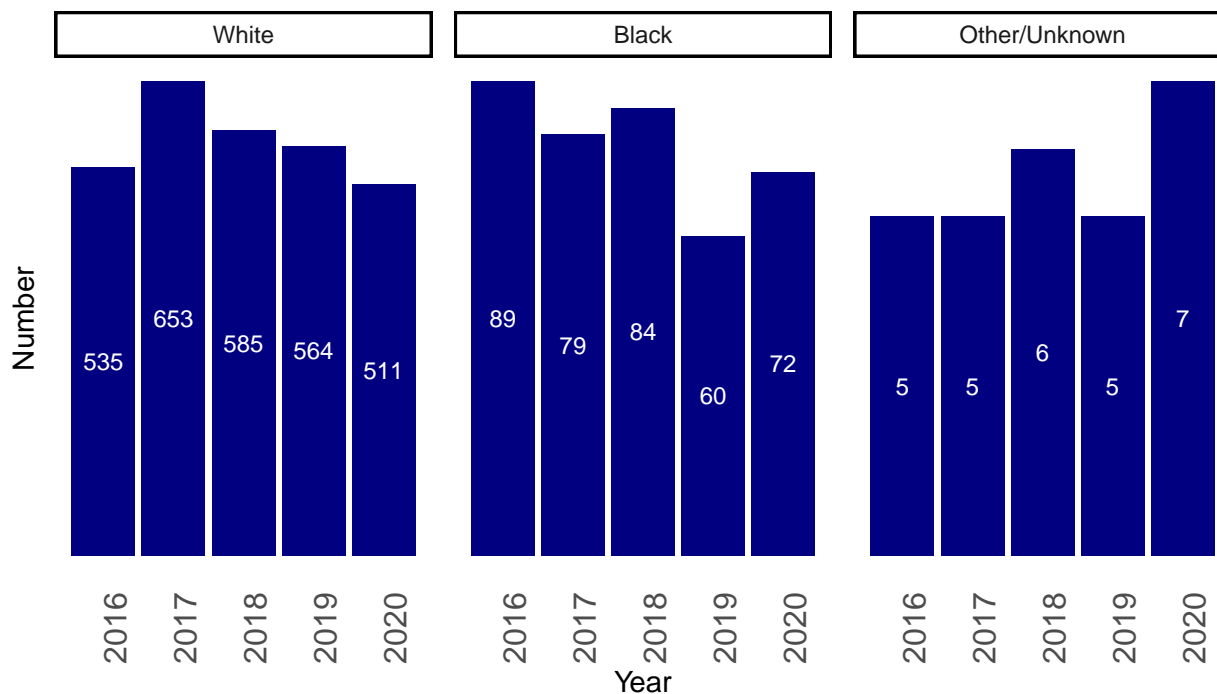
Rates are presented as number of events per 100,000 population.
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Annual Numbers of Inpatient Hospitalizations for a Nonfatal Stimulant Overdose among Kentucky Residents by Sex, 2016–2020



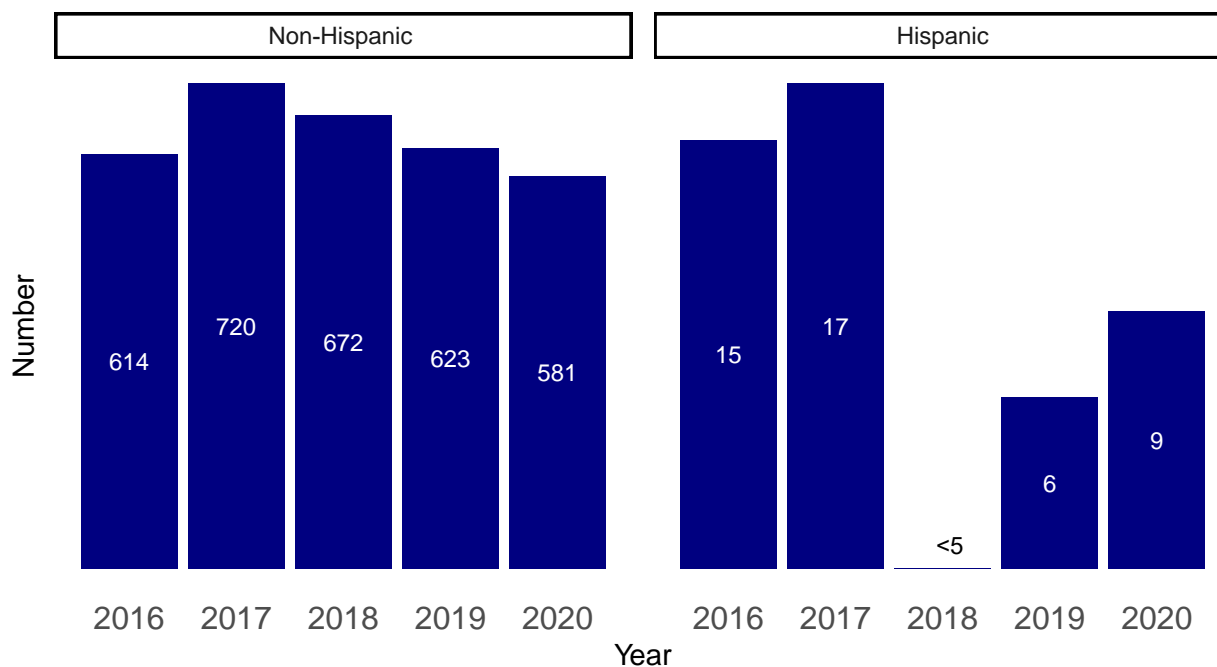
Patients with unknown sex were excluded from this analysis (n = <5).
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Annual Numbers of Inpatient Hospitalizations for a Nonfatal Stimulant Overdose among Kentucky Residents by Race, 2016–2020



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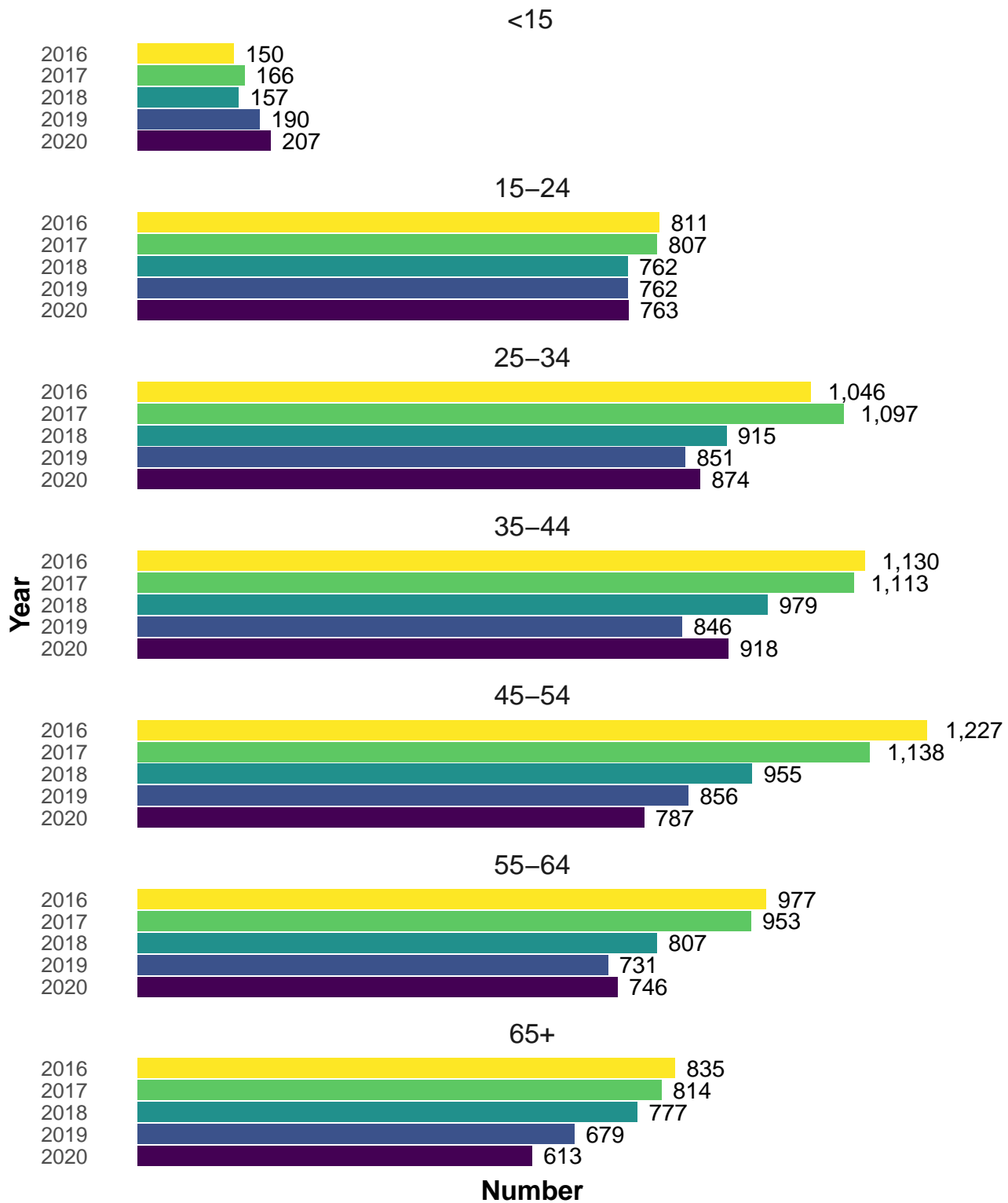
Annual Numbers of Inpatient Hospitalizations for a Nonfatal Stimulant Overdose among Kentucky Residents by Ethnicity, 2016–2020



Counts less than five are suppressed in accordance with state data management policy.
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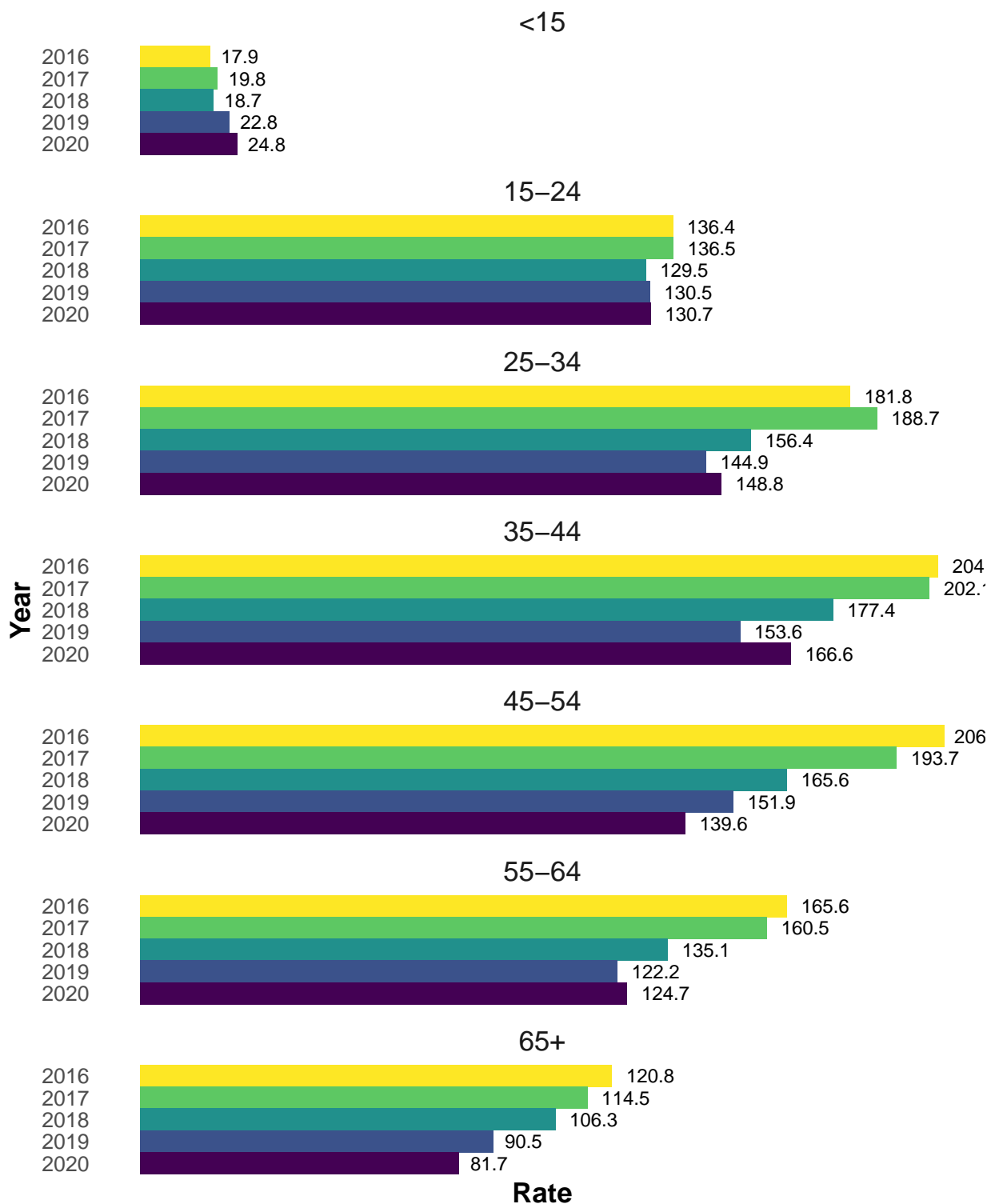
Age Groups

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Age Group, 2016–2020



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.

Age-Specific Rates of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents, 2016–2020

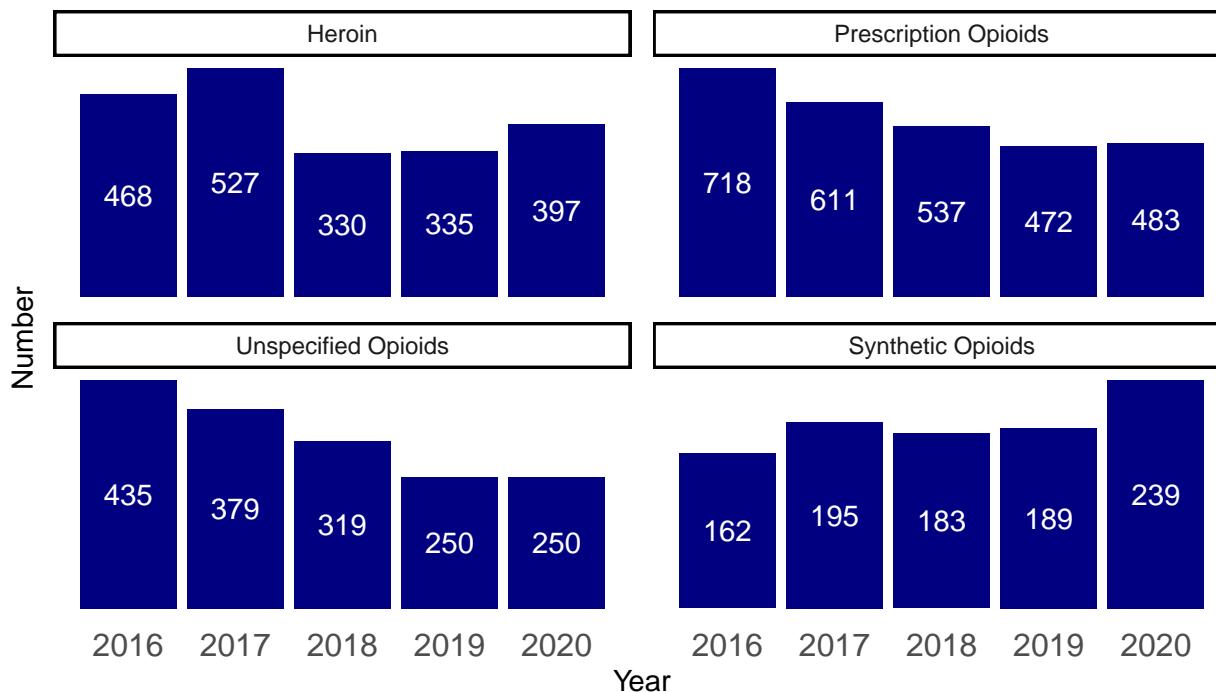


Rates are expressed as the numbers of events per 100,000 population.

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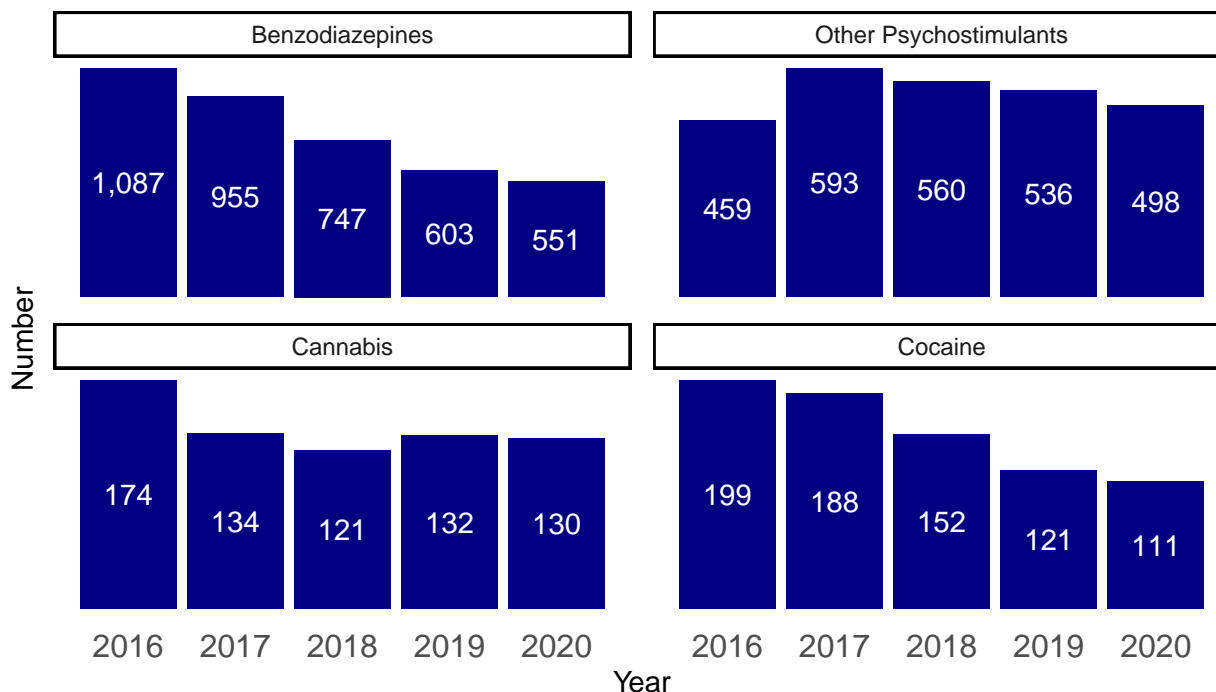
Drug Types

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Opioid Overdose among Kentucky Residents by Drug Type, 2016–2020



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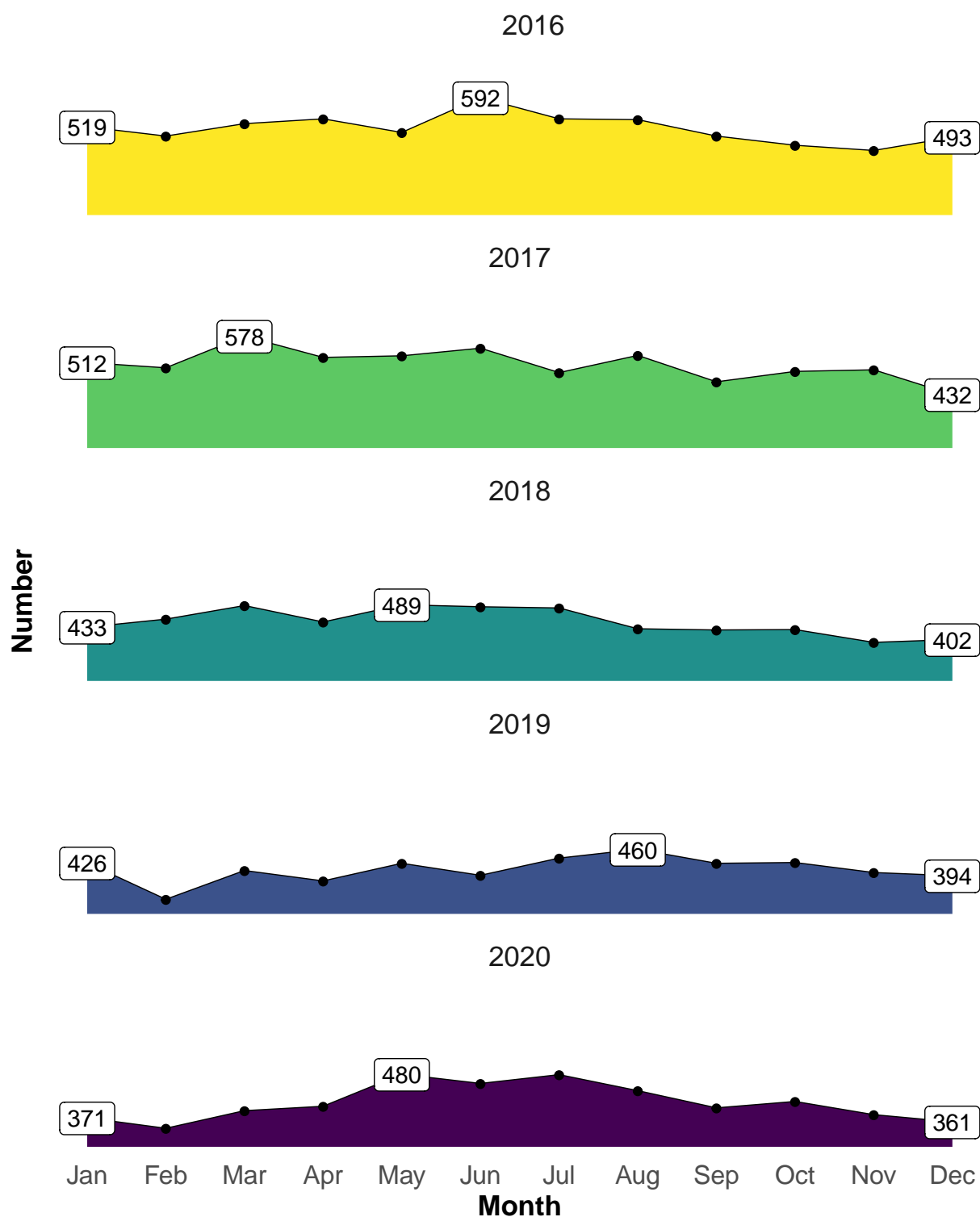
Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Drug Type, 2016–2020



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Monthly Numbers

Monthly Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Year, 2016–2020

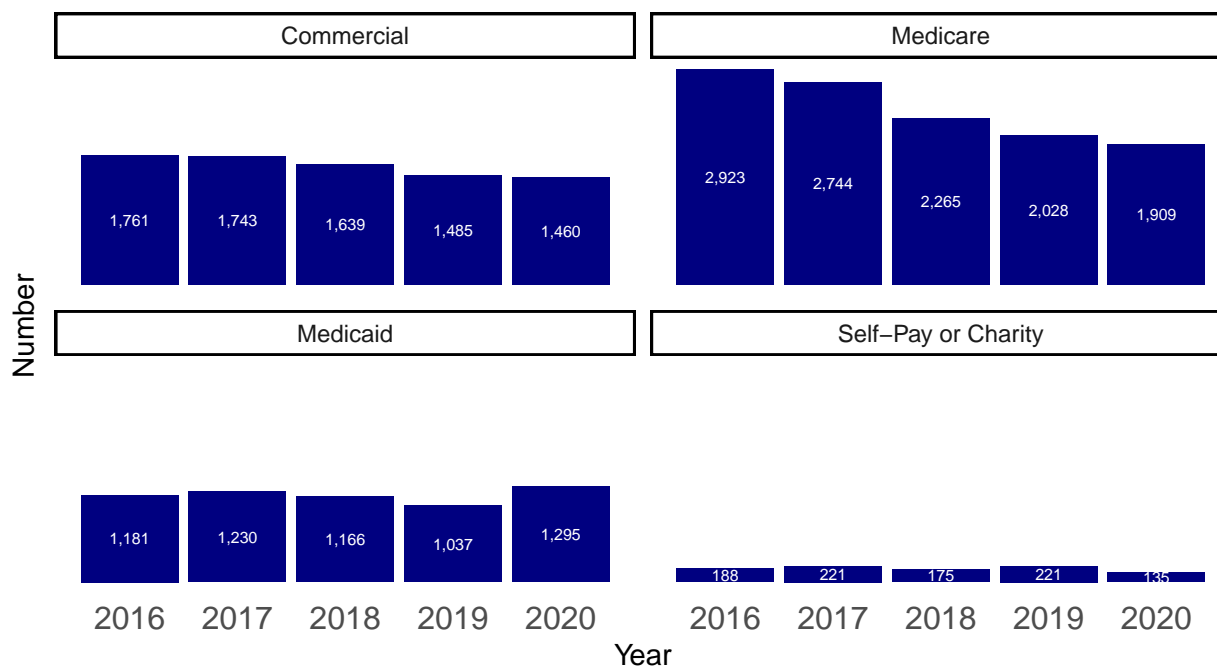


Labeled values display the numbers for the first and last months and the maximum monthly number for each year.

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Payer Types

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Expected Primary Payer, 2016–2020

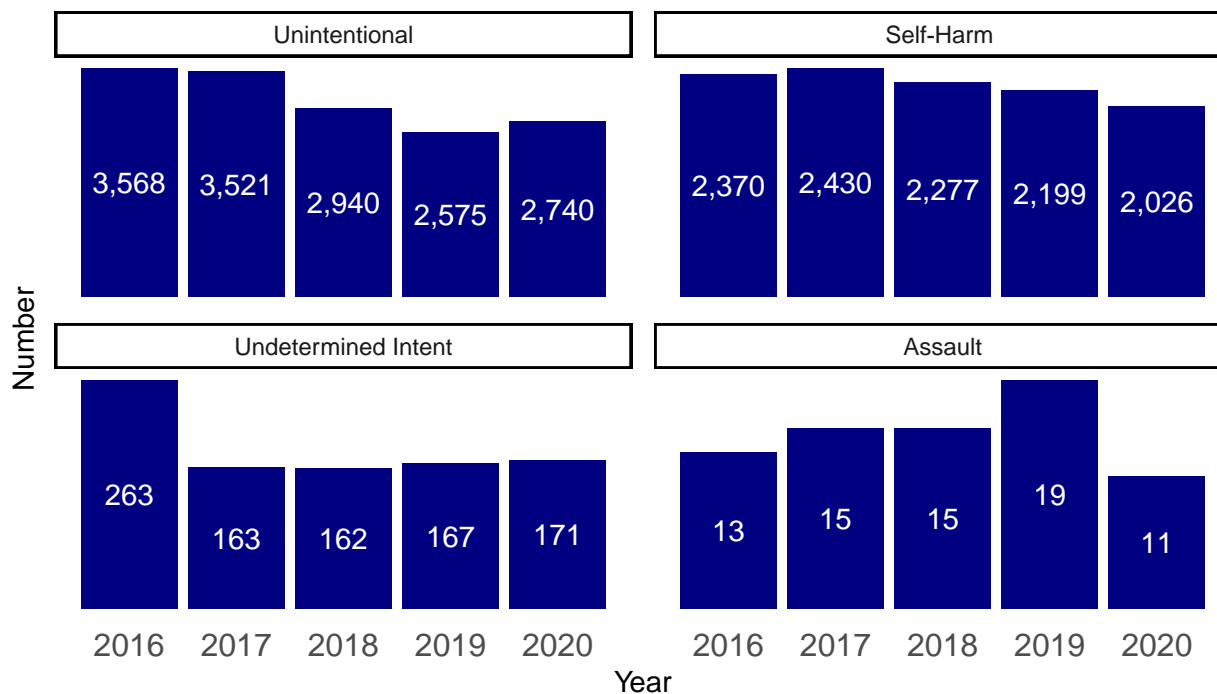


Patients with other expected primary payer types were excluded from this analysis (n = 1443).

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Intention

Annual Numbers of Inpatient Hospitalizations for a Nonfatal Drug Overdose among Kentucky Residents by Intention, 2016–2020



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Counties

Annual Numbers of Inpatient Hospitalizations for Nonfatal Drug Overdoses among Kentucky Residents.¹

County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Adair	2016	13	<5	<5	76.2	*	*
	2017	23	<5	5	118.2	*	*
	2018	14	5	<5	78.3	*	*
	2019	9	0	<5	*	0.0	*
	2020	29	10	6	166.3	54.7	*
Allen	2016	20	<5	5	101.3	*	*
	2017	29	8	5	118.4	*	*
	2018	17	<5	0	67.5	*	0.0
	2019	22	<5	0	114.5	*	0.0
	2020	16	<5	<5	76.5	*	*
Anderson	2016	36	12	<5	168.9	54.7	*
	2017	25	8	<5	117	*	*
	2018	29	<5	<5	133.2	*	*
	2019	33	5	<5	146.7	*	*
	2020	22	7	0	95.2	*	0.0
Ballard	2016	14	<5	0	174	*	0.0
	2017	12	<5	0	153.5	*	0.0
	2018	9	<5	0	*	*	0.0
	2019	5	0	0	*	0.0	0.0
	2020	7	<5	<5	*	*	*

Note:

Numbers less than five and rates based on numbers less than 10 are suppressed in accordance with state data management policy. Suppressed rates are indicated with an asterisk. Rates based on numbers less than 20 are unstable and should be interpreted with caution.

Rates are presented as the number of hospitalizations per 100,000 population

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¹ Numbers are based on the patient's county of residence.

Annual Numbers of Inpatient Hospitalizations for Nonfatal Drug Overdoses among Kentucky Residents.¹

County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Barren	2016	44	9	6	94.4	*	*
	2017	24	5	<5	53.2	*	*
	2018	32	<5	<5	67.7	*	*
	2019	28	<5	5	63.5	*	*
	2020	31	8	<5	69.1	*	*
Bath	2016	16	6	<5	131.8	*	*
	2017	23	8	<5	201.3	*	*
	2018	15	<5	<5	123.8	*	*
	2019	12	6	<5	101.6	*	*
	2020	20	6	<5	178.1	*	*
Bell	2016	57	20	7	201.6	69.9	*
	2017	46	10	14	171.8	34.7	60.9
	2018	28	5	7	97.8	*	*
	2019	30	10	5	116.2	30.7	*
	2020	38	14	<5	135.8	43.6	*
Boone	2016	150	55	9	119.8	42.8	*
	2017	164	52	10	124.5	38.1	7.8
	2018	129	52	11	96.4	37.3	9
	2019	83	24	8	60.6	16.4	*
	2020	98	51	9	74.2	38.6	*

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Bourbon	2016	23	6	<5	109.2	*	*
	2017	17	10	<5	82.8	46.8	*
	2018	25	14	<5	126.5	69.9	*
	2019	22	7	<5	122	*	*
	2020	10	<5	<5	58	*	*
Boyd	2016	100	37	11	211.1	82.8	24.6
	2017	104	33	8	228.3	79.5	*
	2018	77	13	6	173.8	29.6	*
	2019	79	26	10	176.1	58.3	24.5
	2020	87	28	6	187.5	56.3	*
Boyle	2016	38	13	<5	130.2	45.1	*
	2017	32	8	<5	111.2	*	*
	2018	35	11	<5	114.7	33.7	*
	2019	39	10	5	137.1	31	*
	2020	34	8	7	118.4	*	*
Bracken	2016	<5	<5	0	*	*	0.0
	2017	6	<5	0	*	*	0.0
	2018	11	<5	<5	134	*	*
	2019	5	<5	<5	*	*	*
	2020	<5	<5	<5	*	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Breathitt	2016	28	8	9	201.4	*	*
	2017	38	6	9	315.1	*	*
	2018	15	6	7	116.1	*	*
	2019	10	<5	0	66.9	*	0.0
	2020	29	14	5	229.5	101.3	*
Breckinridge	2016	20	6	0	89.4	*	0.0
	2017	17	<5	<5	81.8	*	*
	2018	23	6	<5	106.7	*	*
	2019	19	<5	0	90.7	*	0.0
	2020	22	5	<5	125.3	*	*
Bullitt	2016	76	13	7	96	16	*
	2017	84	25	10	104.3	30.4	13.8
	2018	75	18	7	93.6	20.1	*
	2019	50	10	5	63.7	12.3	*
	2020	60	15	7	76	19.3	*
Butler	2016	18	6	0	146.3	*	0.0
	2017	18	<5	<5	140.8	*	*
	2018	19	6	0	130.1	*	0.0
	2019	9	<5	0	*	*	0.0
	2020	10	0	0	89.7	0.0	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Caldwell	2016	15	<5	<5	124.7	*	*
	2017	17	<5	<5	136.7	*	*
	2018	11	<5	<5	82.6	*	*
	2019	14	<5	<5	106.9	*	*
	2020	9	<5	0	*	*	0.0
Calloway	2016	56	6	<5	137.1	*	*
	2017	33	7	<5	82.9	*	*
	2018	23	5	<5	58.1	*	*
	2019	19	<5	<5	42.9	*	*
	2020	20	5	<5	44.8	*	*
Campbell	2016	102	43	6	110.9	44.7	*
	2017	138	58	12	148	61.7	13.2
	2018	105	40	9	108.7	41.8	*
	2019	80	35	8	84.6	35	*
	2020	69	26	<5	70.4	27.7	*
Carlisle	2016	12	5	<5	238.9	*	*
	2017	13	<5	0	307.4	*	0.0
	2018	9	<5	0	*	*	0.0
	2019	11	<5	<5	299.8	*	*
	2020	<5	<5	0	*	*	0.0

Note:

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Carroll	2016	16	<5	<5	162.9	*	*
	2017	9	<5	<5	*	*	*
	2018	7	0	0	*	0.0	0.0
	2019	14	<5	<5	138.2	*	*
	2020	10	6	0	98.7	*	0.0
Carter	2016	34	7	<5	131.7	*	*
	2017	37	11	8	136.3	44.4	*
	2018	24	7	5	96.4	*	*
	2019	28	9	<5	120.9	*	*
	2020	22	<5	<5	91	*	*
Casey	2016	19	5	<5	121.4	*	*
	2017	12	<5	<5	69.7	*	*
	2018	16	<5	<5	89.5	*	*
	2019	14	5	<5	82.5	*	*
	2020	<5	<5	0	*	*	0.0
Christian	2016	40	12	0	67.6	19.9	0.0
	2017	36	7	<5	65.7	*	*
	2018	34	5	<5	64.4	*	*
	2019	34	6	5	54.5	*	*
	2020	31	8	7	51	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Clark	2016	39	8	<5	112.7	*	*
	2017	30	9	<5	85	*	*
	2018	49	15	9	135.5	39.4	*
	2019	35	9	5	87.3	*	*
	2020	63	22	8	169.1	59	*
Clay	2016	58	30	18	260	128.2	88.1
	2017	57	21	14	258.5	84.6	67.6
	2018	31	9	8	145.5	*	*
	2019	32	15	7	150.2	65.5	*
	2020	33	14	<5	144.7	63.9	*
Clinton	2016	9	<5	0	*	*	0.0
	2017	8	<5	0	*	*	0.0
	2018	<5	0	0	*	0.0	0.0
	2019	9	<5	<5	*	*	*
	2020	11	<5	<5	109.6	*	*
Crittenden	2016	8	<5	<5	*	*	*
	2017	14	5	<5	143.1	*	*
	2018	<5	<5	0	*	*	0.0
	2019	5	0	0	*	0.0	0.0
	2020	6	<5	<5	*	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Cumberland	2016	16	<5	0	216.1	*	0.0
	2017	6	0	<5	*	0.0	*
	2018	6	0	<5	*	0.0	*
	2019	5	<5	<5	*	*	*
	2020	<5	0	0	*	0.0	0.0
Daviess	2016	213	26	17	222.8	24.1	18.1
	2017	213	22	26	225	22.5	28.2
	2018	166	25	20	165.4	23.9	21.5
	2019	141	20	23	144.4	18.9	24.8
	2020	146	16	14	148.2	12.8	15.1
Edmonson	2016	9	<5	<5	*	*	*
	2017	10	0	0	73.2	0.0	0.0
	2018	15	<5	0	114.3	*	0.0
	2019	9	<5	<5	*	*	*
	2020	<5	<5	<5	*	*	*
Elliott	2016	7	<5	<5	*	*	*
	2017	<5	<5	0	*	*	0.0
	2018	<5	0	0	*	0.0	0.0
	2019	<5	<5	<5	*	*	*
	2020	5	<5	<5	*	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Estill	2016	26	8	<5	184.4	*	*
	2017	11	5	<5	69	*	*
	2018	19	8	<5	133.4	*	*
	2019	15	<5	<5	123	*	*
	2020	14	<5	0	111.4	*	0.0
Fayette	2016	399	78	36	119	23	11.3
	2017	416	112	61	125.3	33.3	18.9
	2018	411	111	54	125	34.2	16.9
	2019	411	69	51	124.1	21	15.7
	2020	402	97	45	122.3	29.8	14.1
Fleming	2016	17	11	0	125.5	80.1	0.0
	2017	14	<5	<5	100.8	*	*
	2018	9	<5	0	*	*	0.0
	2019	10	<5	<5	70.5	*	*
	2020	14	7	<5	94.7	*	*
Floyd	2016	84	41	7	220.2	105.6	*
	2017	76	32	19	221	96.9	62.7
	2018	67	23	13	192.9	66.9	43.7
	2019	63	16	13	179	45.1	45
	2020	49	15	8	148.8	40.5	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Franklin	2016	77	16	8	150.3	30.3	*
	2017	64	12	8	130.5	24.1	*
	2018	53	7	7	105.8	*	*
	2019	62	11	11	121.6	21.3	23.5
	2020	51	9	7	100.8	*	*
Fulton	2016	<5	0	0	*	0.0	0.0
	2017	5	<5	<5	*	*	*
	2018	<5	<5	0	*	*	0.0
	2019	5	0	<5	*	0.0	*
	2020	<5	0	<5	*	0.0	*
Gallatin	2016	17	5	0	188.3	*	0.0
	2017	10	<5	0	131.7	*	0.0
	2018	12	<5	0	142.9	*	0.0
	2019	11	5	<5	124	*	*
	2020	10	5	<5	105.1	*	*
Garrard	2016	20	6	<5	102.9	*	*
	2017	28	8	<5	165.3	*	*
	2018	24	7	<5	118.4	*	*
	2019	18	7	<5	103	*	*
	2020	22	6	<5	134.7	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Grant	2016	40	14	<5	155.7	52.3	*
	2017	65	22	<5	269.6	93.4	*
	2018	26	7	<5	108.5	*	*
	2019	26	10	<5	111	43.8	*
	2020	28	9	5	110.9	*	*
Graves	2016	54	15	6	148.9	38.5	*
	2017	57	10	<5	156.6	22.9	*
	2018	44	14	5	118.7	34.4	*
	2019	72	21	17	198.1	54.5	53
	2020	48	5	7	131.3	*	*
Grayson	2016	60	13	<5	229.7	44.9	*
	2017	52	12	<5	183.4	41.9	*
	2018	45	9	10	170.6	*	40.7
	2019	46	9	8	181	*	*
	2020	38	<5	7	156.4	*	*
Green	2016	12	<5	<5	108.6	*	*
	2017	5	<5	0	*	*	0.0
	2018	8	<5	<5	*	*	*
	2019	<5	<5	0	*	*	0.0
	2020	5	<5	0	*	*	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Greenup	2016	43	11	<5	114.2	29.4	*
	2017	38	10	<5	111.3	29.6	*
	2018	54	13	<5	158.5	39.3	*
	2019	27	11	<5	83.6	35.3	*
	2020	28	8	<5	84.9	*	*
Hancock	2016	16	<5	0	172.5	*	0.0
	2017	17	<5	0	185.1	*	0.0
	2018	20	<5	0	229.6	*	0.0
	2019	14	0	<5	186.2	0.0	*
	2020	11	0	<5	123.9	0.0	*
Hardin	2016	127	29	15	120.8	27.4	14.7
	2017	158	41	28	147.7	37.4	27.4
	2018	154	21	21	141.8	19.4	20.2
	2019	121	18	14	111.5	15.5	13
	2020	143	33	30	129	29.3	28.8
Harlan	2016	72	17	11	280.8	61	46
	2017	55	23	7	204.7	79.1	*
	2018	46	22	11	188.3	85.4	52.3
	2019	50	13	20	201	48.9	86.9
	2020	56	26	13	213.7	94.3	57.2

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Harrison	2016	17	5	<5	97.8	*	*
	2017	6	<5	0	*	*	0.0
	2018	8	<5	<5	*	*	*
	2019	8	<5	<5	*	*	*
	2020	10	<5	<5	53.7	*	*
Hart	2016	9	0	<5	*	0.0	*
	2017	14	5	<5	68.8	*	*
	2018	10	<5	<5	52.9	*	*
	2019	13	0	5	59.9	0.0	*
	2020	16	<5	0	82.8	*	0.0
Henderson	2016	43	11	<5	89.9	21.7	*
	2017	45	14	5	101.7	27.7	*
	2018	35	7	5	72.2	*	*
	2019	31	10	<5	63.2	16.9	*
	2020	30	9	0	54.9	*	0.0
Henry	2016	15	<5	<5	93	*	*
	2017	8	0	<5	*	0.0	*
	2018	12	<5	<5	74	*	*
	2019	16	6	<5	95.5	*	*
	2020	9	<5	0	*	*	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Hickman	2016	<5	<5	0	*	*	0.0
	2017	<5	<5	0	*	*	0.0
	2018	<5	<5	0	*	*	0.0
	2019	5	<5	0	*	*	0.0
	2020	<5	0	0	*	0.0	0.0
Hopkins	2016	88	22	6	193.3	45.8	*
	2017	81	11	5	183	22.7	*
	2018	63	7	6	146.7	*	*
	2019	62	10	8	151.4	21.4	*
	2020	55	11	<5	132.5	25.8	*
Jackson	2016	13	<5	5	100.5	*	*
	2017	9	<5	<5	*	*	*
	2018	18	5	<5	136.1	*	*
	2019	11	6	0	84.6	*	0.0
	2020	20	5	5	140.2	*	*
Jefferson	2016	1145	334	141	147.7	42.7	18.5
	2017	1170	307	149	150.1	39.1	19.6
	2018	1100	268	116	141.4	34.5	15.4
	2019	991	262	100	130.4	33.6	13.4
	2020	1031	320	127	135.7	41.5	17.3

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Jessamine	2016	85	32	10	166.2	63.5	22
	2017	74	25	10	143.1	45.7	20
	2018	75	26	15	139.3	48.7	30.1
	2019	60	16	5	107.9	29.5	*
	2020	79	18	11	143.1	32.7	22.9
Johnson	2016	56	8	<5	236.4	*	*
	2017	50	12	6	192.3	45	*
	2018	38	9	6	161.5	*	*
	2019	31	9	7	141.3	*	*
	2020	33	5	<5	165.2	*	*
Kenton	2016	275	103	13	165	59.8	7.6
	2017	262	108	15	157.2	64.2	8.8
	2018	187	63	19	110.2	36.2	12
	2019	184	71	25	107.7	40.6	15.7
	2020	162	63	11	94.7	36.9	6.4
Knott	2016	23	5	<5	142.5	*	*
	2017	29	<5	<5	223.5	*	*
	2018	18	6	5	130.1	*	*
	2019	21	<5	<5	157	*	*
	2020	17	8	0	138.9	*	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Knox	2016	68	13	8	222.1	41.4	*
	2017	52	8	10	172.2	*	37.1
	2018	43	7	6	146.1	*	*
	2019	31	<5	<5	94.5	*	*
	2020	36	10	<5	116	31.9	*
Larue	2016	11	6	<5	78.2	*	*
	2017	14	<5	<5	96	*	*
	2018	23	<5	<5	162.8	*	*
	2019	18	<5	<5	136.7	*	*
	2020	13	5	<5	88.9	*	*
Laurel	2016	87	26	13	138.8	35.6	23.5
	2017	58	11	11	91.1	15.8	18.2
	2018	64	17	9	108.8	28	*
	2019	63	14	9	106.2	22	*
	2020	59	14	10	101.4	23.3	18.6
Lawrence	2016	26	<5	<5	169.3	*	*
	2017	20	<5	<5	135.6	*	*
	2018	19	<5	0	128.7	*	0.0
	2019	14	<5	<5	86.4	*	*
	2020	6	<5	<5	*	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Lee	2016	12	<5	<5	176.5	*	*
	2017	12	<5	<5	192.9	*	*
	2018	11	<5	5	158.3	*	*
	2019	12	<5	<5	165.2	*	*
	2020	23	8	6	329.8	*	*
Leslie	2016	19	12	<5	196.6	117.5	*
	2017	20	6	5	179.6	*	*
	2018	13	<5	<5	133.8	*	*
	2019	20	<5	<5	200.7	*	*
	2020	10	<5	<5	103.9	*	*
Letcher	2016	72	22	9	310.2	96.1	*
	2017	51	14	10	238.8	63.5	50.8
	2018	39	10	7	181.5	54.5	*
	2019	28	8	7	121	*	*
	2020	44	11	5	223.9	52.7	*
Lewis	2016	<5	<5	<5	*	*	*
	2017	9	<5	<5	*	*	*
	2018	8	<5	0	*	*	0.0
	2019	5	<5	0	*	*	0.0
	2020	7	<5	<5	*	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Lincoln	2016	29	7	<5	119	*	*
	2017	26	6	5	110.2	*	*
	2018	22	7	<5	102.2	*	*
	2019	28	9	<5	123.2	*	*
	2020	29	<5	<5	131.7	*	*
Livingston	2016	24	5	<5	278.4	*	*
	2017	14	<5	<5	160.5	*	*
	2018	16	<5	0	172.8	*	0.0
	2019	14	<5	<5	157.7	*	*
	2020	19	<5	<5	206.7	*	*
Logan	2016	29	8	<5	108.1	*	*
	2017	31	9	<5	116.9	*	*
	2018	20	<5	<5	72.4	*	*
	2019	24	5	<5	88	*	*
	2020	15	<5	6	50.2	*	*
Lyon	2016	8	<5	<5	*	*	*
	2017	10	5	0	95.3	*	0.0
	2018	11	<5	0	131.8	*	0.0
	2019	7	<5	<5	*	*	*
	2020	12	<5	0	114.7	*	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Madison	2016	73	28	18	80.9	33.9	19.7
	2017	76	18	14	82.1	19.8	16.9
	2018	75	24	15	80	26.8	17.9
	2019	76	23	8	78	24.7	*
	2020	67	17	7	75.9	18.4	*
Magoffin	2016	45	11	<5	338.5	71.1	*
	2017	30	6	6	241.5	*	*
	2018	26	7	8	209.3	*	*
	2019	12	<5	<5	90	*	*
	2020	19	6	<5	152.1	*	*
Marion	2016	17	<5	<5	89.7	*	*
	2017	23	<5	<5	107.4	*	*
	2018	12	<5	<5	72.5	*	*
	2019	20	<5	<5	108.1	*	*
	2020	8	<5	0	*	*	0.0
Marshall	2016	55	11	<5	174.4	31.9	*
	2017	42	8	<5	141.6	*	*
	2018	67	15	12	219	44.9	44.4
	2019	38	9	<5	121.4	*	*
	2020	35	9	<5	120.4	*	*

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Annual Numbers of Inpatient Hospitalizations for Nonfatal Drug Overdoses among Kentucky Residents.¹

County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Martin	2016	21	13	<5	152.7	97.4	*
	2017	20	5	<5	159.8	*	*
	2018	30	8	8	248.3	*	*
	2019	15	<5	<5	115.9	*	*
	2020	13	<5	<5	112.2	*	*
Mason	2016	8	<5	<5	*	*	*
	2017	15	<5	<5	97.3	*	*
	2018	17	7	<5	102.8	*	*
	2019	27	7	<5	176	*	*
	2020	17	9	7	103.8	*	*
McCracken	2016	144	33	12	228.7	47.9	20.4
	2017	151	24	12	235.8	32.3	22
	2018	142	27	15	222.9	37.8	24.8
	2019	118	21	14	181.4	26.5	23.9
	2020	110	19	9	168.6	28.6	*
McCreary	2016	40	15	6	212.1	78.9	*
	2017	23	5	<5	130.2	*	*
	2018	20	7	7	113.4	*	*
	2019	20	5	<5	110.7	*	*
	2020	15	<5	<5	88.8	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
McLean	2016	12	<5	<5	137.2	*	*
	2017	21	6	<5	235.6	*	*
	2018	10	0	0	100.6	0.0	0.0
	2019	12	0	<5	140	0.0	*
	2020	9	0	<5	*	0.0	*
Meade	2016	23	6	<5	83.5	*	*
	2017	25	9	<5	79.8	*	*
	2018	19	7	<5	63.9	*	*
	2019	29	5	<5	97	*	*
	2020	22	<5	<5	80.5	*	*
Menifee	2016	8	<5	<5	*	*	*
	2017	7	<5	<5	*	*	*
	2018	17	5	<5	303.8	*	*
	2019	<5	<5	<5	*	*	*
	2020	8	<5	<5	*	*	*
Mercer	2016	27	15	<5	134.4	75.8	*
	2017	24	<5	5	108.7	*	*
	2018	30	6	6	152.8	*	*
	2019	32	8	5	138.1	*	*
	2020	19	7	0	94.4	*	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Metcalf	2016	5	<5	0	*	*	0.0
	2017	8	0	<5	*	0.0	*
	2018	8	<5	<5	*	*	*
	2019	7	<5	<5	*	*	*
	2020	7	<5	<5	*	*	*
Monroe	2016	15	5	<5	123.9	*	*
	2017	9	<5	<5	*	*	*
	2018	9	<5	<5	*	*	*
	2019	<5	<5	0	*	*	0.0
	2020	6	0	<5	*	0.0	*
Montgomery	2016	30	13	0	105	48.4	0.0
	2017	34	15	6	115.5	47	*
	2018	31	6	9	112	*	*
	2019	24	7	6	79.8	*	*
	2020	28	8	<5	102.3	*	*
Morgan	2016	21	<5	<5	157.2	*	*
	2017	12	<5	0	94	*	0.0
	2018	9	<5	0	*	*	0.0
	2019	10	<5	<5	64.9	*	*
	2020	11	5	<5	80	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Muhlenberg	2016	40	9	6	124.8	*	*
	2017	56	15	10	175.3	39.9	38.6
	2018	39	9	<5	118.9	*	*
	2019	27	<5	<5	74.2	*	*
	2020	25	10	<5	79.6	29.9	*
Nelson	2016	35	9	<5	83.1	*	*
	2017	37	15	<5	77.2	32.7	*
	2018	38	17	<5	83	37.5	*
	2019	37	9	8	87.6	*	*
	2020	33	<5	<5	72	*	*
Nicholas	2016	<5	0	0	*	0.0	0.0
	2017	<5	<5	0	*	*	0.0
	2018	6	<5	0	*	*	0.0
	2019	<5	<5	0	*	*	0.0
	2020	<5	0	0	*	0.0	0.0
Ohio	2016	37	<5	<5	163.3	*	*
	2017	46	14	<5	183.2	53.2	*
	2018	25	<5	<5	113.4	*	*
	2019	37	<5	<5	154.7	*	*
	2020	32	<5	<5	145.8	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Oldham	2016	44	9	6	68	*	*
	2017	56	13	<5	87.7	18.7	*
	2018	39	6	<5	57.8	*	*
	2019	44	5	<5	71.1	*	*
	2020	62	7	<5	100.4	*	*
Owen	2016	7	<5	0	*	*	0.0
	2017	9	<5	<5	*	*	*
	2018	<5	<5	0	*	*	0.0
	2019	6	<5	0	*	*	0.0
	2020	10	<5	0	91	*	0.0
Owsley	2016	17	5	5	423.3	*	*
	2017	12	<5	0	316	*	0.0
	2018	<5	<5	0	*	*	0.0
	2019	5	0	<5	*	0.0	*
	2020	10	<5	5	258.1	*	*
Pendleton	2016	10	<5	0	67.1	*	0.0
	2017	19	9	<5	131.4	*	*
	2018	14	5	<5	98.5	*	*
	2019	18	8	0	120.2	*	0.0
	2020	9	<5	<5	*	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Perry	2016	99	25	13	363.3	94.9	53.5
	2017	73	10	7	280.7	37.7	*
	2018	56	18	10	225.5	65.9	42.2
	2019	64	16	7	258.1	56.3	*
	2020	56	8	6	218.5	*	*
Pike	2016	107	34	15	183.9	57.4	28.9
	2017	140	49	33	235.2	77.5	63.2
	2018	100	36	24	162.4	57.2	43.9
	2019	72	27	26	135.2	52.3	52.6
	2020	81	22	30	146.3	40.3	61.6
Powell	2016	24	8	0	192.2	*	0.0
	2017	17	6	<5	146	*	*
	2018	17	6	<5	125.8	*	*
	2019	15	6	<5	122	*	*
	2020	22	5	<5	185.9	*	*
Pulaski	2016	86	25	11	138.2	39.4	19
	2017	84	29	9	127.4	40.5	*
	2018	96	21	12	155.2	33.9	23.5
	2019	103	16	7	156.1	20	*
	2020	92	12	5	148.4	19.9	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Robertson	2016	<5	0	<5	*	0.0	*
	2017	<5	0	0	*	0.0	0.0
	2018	<5	<5	0	*	*	0.0
	2019	0	0	0	0.0	0.0	0.0
	2020	<5	0	0	*	0.0	0.0
Rockcastle	2016	24	9	<5	142.4	*	*
	2017	20	8	<5	110.5	*	*
	2018	16	5	<5	87.7	*	*
	2019	<5	<5	<5	*	*	*
	2020	13	<5	<5	82.1	*	*
Rowan	2016	60	16	5	279.3	71	*
	2017	42	13	<5	177.6	59.5	*
	2018	46	9	<5	194.3	*	*
	2019	22	<5	<5	114.8	*	*
	2020	33	7	<5	140.5	*	*
Russell	2016	9	<5	0	*	*	0.0
	2017	8	<5	0	*	*	0.0
	2018	11	<5	<5	65.1	*	*
	2019	15	5	<5	82.2	*	*
	2020	<5	<5	0	*	*	0.0

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Scott	2016	62	21	6	117	37.8	*
	2017	44	22	<5	79.9	38.3	*
	2018	26	11	<5	45.8	18.4	*
	2019	56	17	<5	98.9	30.9	*
	2020	41	8	7	73.1	*	*
Shelby	2016	41	13	<5	89.7	27.8	*
	2017	40	13	<5	84.9	26.9	*
	2018	30	<5	<5	62	*	*
	2019	19	<5	<5	37.8	*	*
	2020	30	10	<5	61.3	20.1	*
Simpson	2016	17	<5	0	95.7	*	0.0
	2017	20	<5	0	108.1	*	0.0
	2018	23	0	<5	125	0.0	*
	2019	12	5	5	66.8	*	*
	2020	16	<5	0	77.9	*	0.0
Spencer	2016	14	<5	<5	71.9	*	*
	2017	16	<5	<5	83.2	*	*
	2018	16	<5	<5	97.5	*	*
	2019	19	<5	<5	98.9	*	*
	2020	11	0	<5	60.9	0.0	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Taylor	2016	19	7	5	76	*	*
	2017	21	<5	<5	94.3	*	*
	2018	34	6	10	128.8	*	45.9
	2019	18	6	6	75.7	*	*
	2020	39	10	10	152.4	36.8	44
Todd	2016	7	<5	0	*	*	0.0
	2017	5	<5	0	*	*	0.0
	2018	5	0	0	*	0.0	0.0
	2019	<5	<5	<5	*	*	*
	2020	<5	<5	<5	*	*	*
Trigg	2016	9	<5	0	*	*	0.0
	2017	11	<5	<5	91.3	*	*
	2018	13	<5	<5	81.8	*	*
	2019	6	<5	<5	*	*	*
	2020	9	<5	<5	*	*	*
Trimble	2016	9	<5	<5	*	*	*
	2017	<5	0	0	*	0.0	0.0
	2018	5	0	<5	*	0.0	*
	2019	6	<5	<5	*	*	*
	2020	<5	<5	0	*	*	0.0

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Union	2016	6	<5	<5	*	*	*
	2017	7	<5	<5	*	*	*
	2018	<5	0	0	*	0.0	0.0
	2019	6	0	<5	*	0.0	*
	2020	<5	<5	<5	*	*	*
Warren	2016	129	24	15	105	20.4	11.9
	2017	167	33	22	130.2	26.1	17.3
	2018	139	19	10	107.7	15.6	8.6
	2019	128	30	16	95.4	23.2	12.9
	2020	84	23	9	66	18.2	*
Washington	2016	8	0	<5	*	0.0	*
	2017	12	<5	<5	109.8	*	*
	2018	9	<5	<5	*	*	*
	2019	17	6	<5	118.9	*	*
	2020	16	5	<5	123.4	*	*
Wayne	2016	23	6	<5	116.7	*	*
	2017	15	<5	<5	74.7	*	*
	2018	16	<5	0	80.5	*	0.0
	2019	22	<5	<5	107.8	*	*
	2020	17	<5	<5	86.6	*	*

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County	Year	Number, All Drugs	Number, All Opioids	Number, All Stimulants	Age- Adjusted Rate, All Drugs	Age- Adjusted Rate, All Opioids	Age- Adjusted Rate, All Stimulants
Webster	2016	26	5	<5	220.1	*	*
	2017	30	<5	0	238.5	*	0.0
	2018	15	<5	<5	130.1	*	*
	2019	13	0	0	109.7	0.0	0.0
	2020	10	0	0	82.3	0.0	0.0
Whitley	2016	86	26	6	244.8	66.3	*
	2017	75	18	9	226.8	55.3	*
	2018	45	9	6	144.7	*	*
	2019	75	12	7	214.8	32.1	*
	2020	96	18	6	279.3	51.7	*
Wolfe	2016	11	5	<5	178.6	*	*
	2017	14	6	<5	186.5	*	*
	2018	12	<5	<5	193.7	*	*
	2019	10	<5	<5	154.1	*	*
	2020	17	7	<5	253.7	*	*
Woodford	2016	25	9	<5	103.4	*	*
	2017	31	10	<5	120.8	37.7	*
	2018	21	<5	<5	92.4	*	*
	2019	26	6	<5	106.1	*	*
	2020	19	7	<5	70.1	*	*

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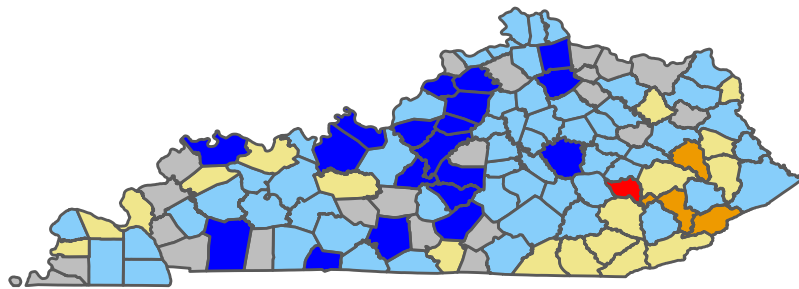
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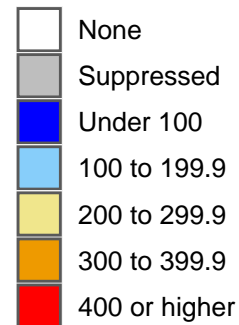
¹ Numbers are based on the patient's county of residence.

County Maps

Age-Adjusted Rates of Inpatient Hospitalizations for
Nonfatal Drug Overdose by Kentucky County of Residence, 2016

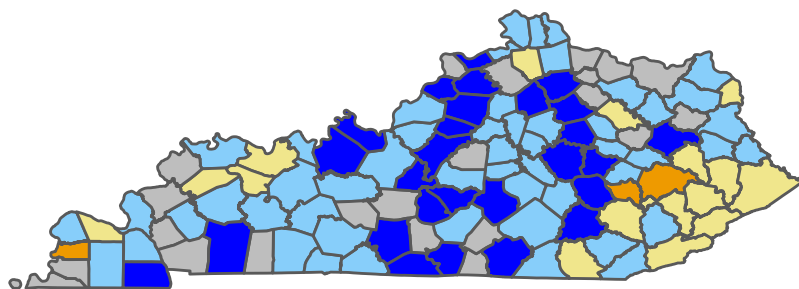


Age-Adjusted Rate

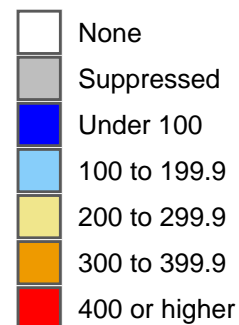


Rates are expressed as the numbers of events per 100,000 residents.
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September 2021

Age-Adjusted Rates of Inpatient Hospitalizations for
Nonfatal Drug Overdose by Kentucky County of Residence, 2017

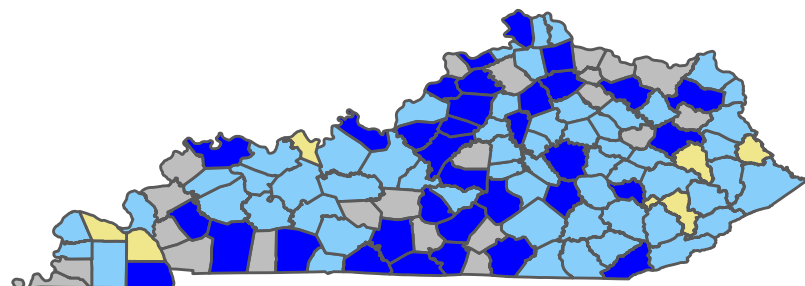


Age-Adjusted Rate

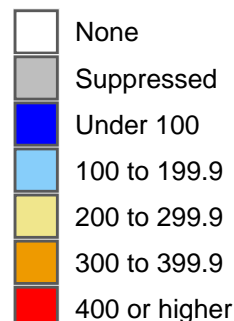


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Age-Adjusted Rates of Inpatient Hospitalizations for Nonfatal Drug Overdose by Kentucky County of Residence, 2018

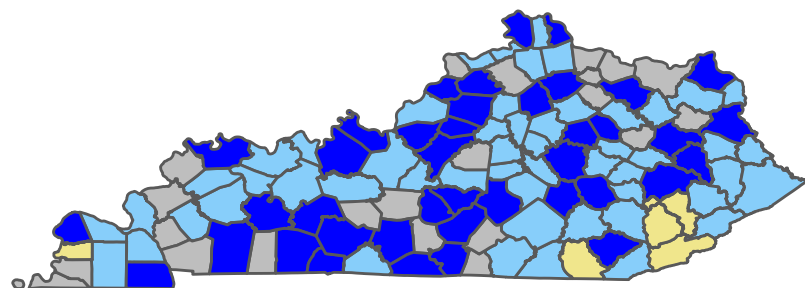


Age-Adjusted Rate

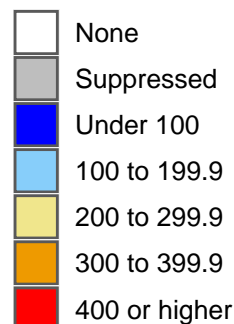


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Age-Adjusted Rates of Inpatient Hospitalizations for Nonfatal Drug Overdose by Kentucky County of Residence, 2019

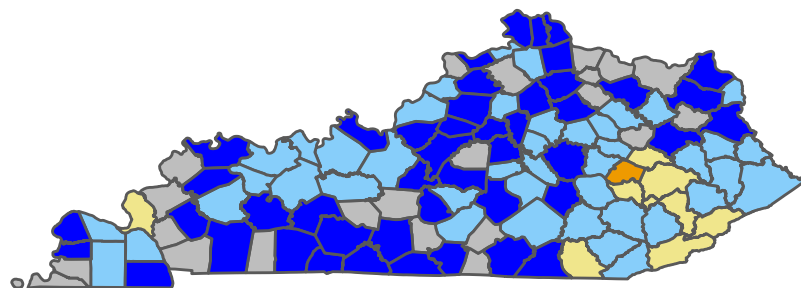


Age-Adjusted Rate

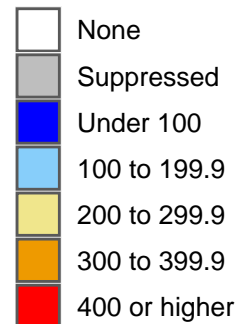


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Age-Adjusted Rates of Inpatient Hospitalizations for Nonfatal Drug Overdoses by Kentucky County of Residence, 2020



Age-Adjusted Rate



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Rates based on numbers less than 10 are suppressed in accordance
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September 2021