October 2022

PA Health Care Cost Containment Council

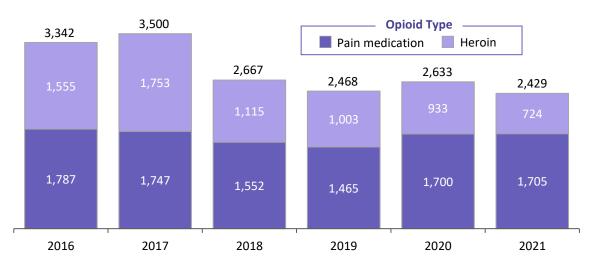


Hospitalizations for Opioid Overdose, 2016 – 2021

This research brief looks at Pennsylvania residents, ages 15 and older, who were admitted to a Pennsylvania acute care hospital for an opioid overdose. Opioid overdoses of pain medication and heroin are displayed separately, but are also combined to show totals. This analysis includes only overdoses that resulted in a hospital admission (examples of cases not included: those treated with naloxone and/or treated in the emergency department and not admitted to the hospital, or overdose deaths that occurred outside the hospital setting).

Hospitalizations for Opioid Overdose Decreased 27% between 2016 and 2021

Hospitalizations for opioid overdose decreased 27% from a total of 3,342 in calendar year (CY) 2016 to 2,429 in CY 2021. Most of this decrease can be attributed to a decrease in hospitalizations for heroin overdose, which decreased 53% from 1,555 in 2016 to 724 in 2021. During the same time period, hospitalizations for pain medication overdose showed less change, with only a 5% decrease from 1,787 in 2016 to 1,705 in 2021.



Number of Hospitalizations for Opioid Overdose

Note: These numbers reflect overdoses that resulted in a hospital admission. They do not include all overdoses for Pennsylvania residents. Emergency department visits for opioid overdose are not included in these numbers.

Hospitalizations for Opioid Overdose in 2021

- Patients hospitalized for an opioid overdose spent a total of 11,750 days in the hospital. The average hospital stay was 4.8 days.
- 153 (6%) of the patients hospitalized for opioid overdose died in the hospital.
- Of the 2,429 hospitalizations for opioid overdose, 54% had Medicaid as the anticipated primary payer, 26% had Medicare, 14% had commercial insurance, and 7% had another type or no insurance.

Note: Percentages do not add to 100% due to rounding.





Hospitalization Rates* for Opioid Overdose per 100,000 Residents in 2021

The following categories of Pennsylvania residents had hospitalization rates significantly higher than the rest of the state:

- Residents with Ages 25-44 years and 45-64 years •
- Male residents
- Black (non-Hispanic) and Hispanic residents ٠
- Residents living in zip codes with poverty rates of 10% to 25%, and over 25% •

* Rates are calculated using PHC4 hospital discharge data and US Census Bureau 2020 population estimates.

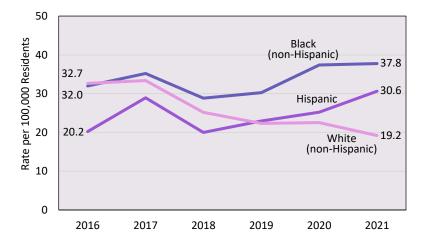
+ Poverty rates are based on 2020 US Census Bureau estimates at the zip code level.

Note: Hospitalization rates for pain medication and heroin overdose may not add to the total hospitalization rates for opioid overdose, due to rounding. Other race/ethnicity categories as well as unknown/missing values are not shown due to low volume.



Hospitalization Rates* for Opioid Overdose per 100,000 Residents, 2016 – 2021

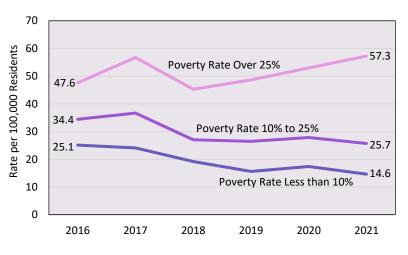




Hospitalization rates for opioid overdose decreased for White (non-Hispanic) Pennsylvania residents from 2016 through 2021. However, rates increased for both Hispanic and Black (non-Hispanic) Pennsylvania residents during that same time.

By Local Poverty Rate+:

Hospitalization rates were consistently highest for Pennsylvanians living in areas with poverty rates over 25%, and also increased from 2016 through 2021. However, hospitalization rates for Pennsylvanians living in areas with lower poverty rates decreased during that same time.



* Rates are calculated using PHC4 hospital discharge data and US Census Bureau 2020 population estimates.

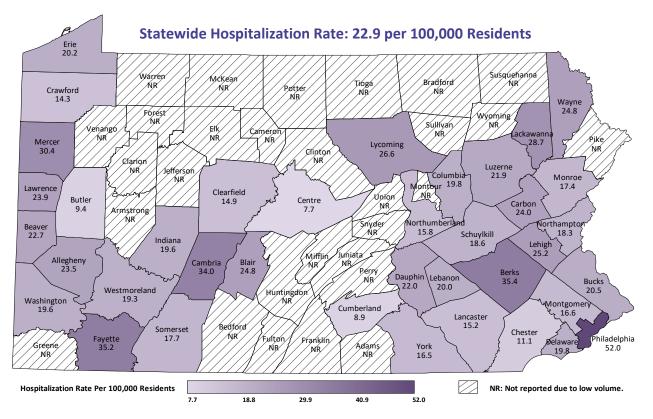
⁺ Poverty rates are based on 2020 US Census Bureau estimates at the zip code level.

New Data on Fentanyl

Fentanyl is a synthetic opioid pain medication used for treating severe pain. However, it is also manufactured illicitly and distributed through illegal drug markets. Because of its high potency and illicit use, fentanyl has a high risk for misuse, abuse, dependence and overdose. Fentanyl-related overdoses became uniquely identifiable in CY 2021 hospital admission data.

Of the 2,429 statewide hospitalizations for opioid overdose in 2021, 18% (427) were for fentanyl overdose. Furthermore, of the 153 overdose hospitalizations that ended in death, 34% (52) were for fentanyl overdose.





Hospitalization Rates* for Opioid Overdose in 2021, by County

* Rates are calculated using PHC4 hospital discharge data and US Census Bureau 2020 population estimates.

Note that higher rates for some counties might reflect larger numbers of residents with certain at-risk characteristics (e.g., factors related to income, race/ethnicity, age and gender). County rates were not adjusted for those population differences so that important effects of these patient characteristics were not masked by such adjustment.

About PHC4

Created by the PA General Assembly in 1986, the PA Health Care Cost Containment Council (PHC4) is an independent state agency charged with collecting, analyzing and reporting information that can be used to improve the quality and restrain the cost of health care in the state. Today, PHC4 is a recognized national leader in public health care reporting. PHC4 is governed by a board of directors representing business, labor, consumers, health care providers, insurers, health economists and state government.

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	Calendar Year								
	2016	2017	2018	2019	2020	2021			
Statewide	31.6	33.0	25.1	23.2	24.8	22.9			
Adams	30.6	21.0	11.6	11.6	11.6	NR			
Allegheny	34.9	41.2	22.9	26.6	29.3	23.5			
Armstrong	28.6	23.4	21.8	NR	NR	NR			
Beaver	40.7	31.6	27.5	18.1	21.9	22.7			
Bedford	NR	NR	NR	NR	NR	NR			
Berks	25.7	31.4	22.7	24.7	20.0	35.4			
Blair	31.1	37.1	14.7	24.6	24.8	24.8			
Bradford	22.0	30.1	NR	NR	NR	NR			
Bucks	34.1	38.2	32.0	26.4	23.7	20.5			
Butler	19.9	26.2	12.1	15.2	13.2	9.4			
Cambria	51.3	51.8	21.7	18.2	32.2	34.0			
Cameron	NR	NR	NR	NR	NR	NR			
Carbon	31.8	24.2	36.9	31.4	36.9	24.0			
Centre	15.5	7.7	NR	NR	8.5	7.7			
Chester	24.6	24.9	19.3	16.1	13.2	11.1			
Clarion	NR	NR	NR	NR	NR	NR			
Clearfield	17.6	20.6	17.7	20.7	19.4	14.9			
Clinton	NR	NR	NR	NR	31.6	NR			
Columbia	37.2	44.6	NR	28.7	NR	19.8			
Crawford	19.6	19.7	14.1	19.9	NR	14.3			
Cumberland	23.8	13.5	17.2	20.0	14.6	8.9			
Dauphin	31.4	30.3	23.1	20.3	19.3	22.0			
Delaware	40.6	44.2	35.2	28.9	28.2	19.8			
Elk	NR	NR	NR	NR	NR	NR			
Erie	35.6	37.3	22.3	20.7	14.4	20.2			
Fayette	33.2	37.9	40.0	27.5	24.1	35.2			
Forest	NR	NR	NR	NR	NR	NR			
Franklin	27.1	16.7	15.8	9.4	12.5	NR			
Fulton	NR	NR	NR	NR	NR	NR			
Greene	NR	NR	NR	NR	NR	NR			
Huntingdon	NR	NR	NR	NR	NR	NR			
Indiana	19.3	27.7	22.2	NR	19.6	19.6			
Jefferson	NR	NR	NR	NR	NR	NR			
Juniata	NR	NR	NR	NR	NR	NR			
Lackawanna	42.1	27.4	21.2	14.3	21.3	28.7			

NR: Not reported due to low volume.



	(continuea)									
	Calendar Year									
	2016	2017	2018	2019	2020	2021				
Lancaster	29.4	23.7	22.6	14.1	13.6	15.2				
Lawrence	30.1	40.0	41.6	29.4	26.7	23.9				
Lebanon	34.8	23.9	15.7	20.9	22.6	20.0				
Lehigh	23.8	28.6	26.0	24.6	28.2	25.2				
Luzerne	27.4	27.0	25.1	20.3	26.4	21.9				
Lycoming	33.6	27.4	23.2	20.1	27.6	26.6				
McKean	NR	NR	NR	NR	NR	NR				
Mercer	32.6	42.5	26.8	23.8	27.2	30.4				
Mifflin	NR	NR	NR	NR	NR	NR				
Monroe	19.2	24.0	15.4	17.4	25.0	17.4				
Montgomery	24.1	25.2	20.9	16.5	24.7	16.6				
Montour	NR	NR	NR	NR	NR	NR				
Northampton	31.7	29.9	22.3	24.2	20.6	18.3				
Northumberland	36.2	20.8	28.8	22.4	30.3	15.8				
Perry	37.0	29.0	31.6	NR	NR	NR				
Philadelphia	47.4	52.5	44.8	45.0	49.0	52.0				
Pike	NR	NR	NR	NR	NR	NR				
Potter	NR	NR	NR	NR	NR	NR				
Schuylkill	25.0	27.6	22.7	24.5	16.1	18.6				
Snyder	NR	NR	NR	NR	NR	NR				
Somerset	18.8	28.4	NR	NR	17.7	17.7				
Sullivan	NR	NR	NR	NR	NR	NR				
Susquehanna	NR	NR	NR	NR	NR	NR				
Tioga	NR	NR	29.4	NR	NR	NR				
Union	NR	NR	NR	NR	NR	NR				
Venango	NR	NR	34.7	NR	NR	NR				
Warren	NR	NR	NR	NR	NR	NR				
Washington	33.9	28.8	17.2	20.1	16.7	19.6				
Wayne	NR	NR	NR	NR	27.0	24.8				
Westmoreland	38.5	36.4	22.8	22.5	29.4	19.3				
Wyoming	NR	NR	NR	NR	NR	NR				
York	28.7	39.8	30.0	24.2	23.5	16.5				

Opioid Overdose Hospitalization Rates* per 100,000 County Residents, 2016 – 2021 (continued)

NR: Not reported due to low volume.

* The 2020 US Census Bureau population estimates are the latest available at the time of publication, therefore the 2021 rates are calculated using 2021 PHC4 hospital discharge data and 2020 US Census Bureau population estimates. Earlier years use both the hospital discharge data and population estimates from the corresponding year.

