

Losing Ground in the Opioid Epidemic

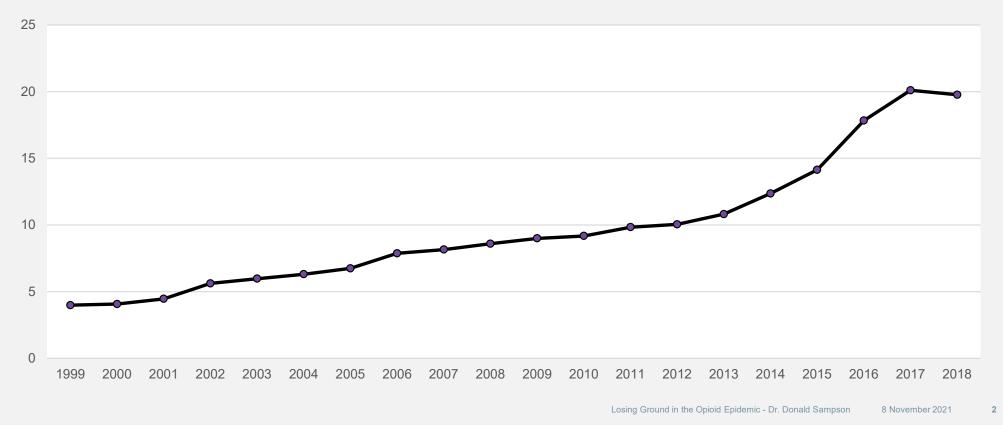
Dr. Donald Sampson



Opioid Abuse and Overdose



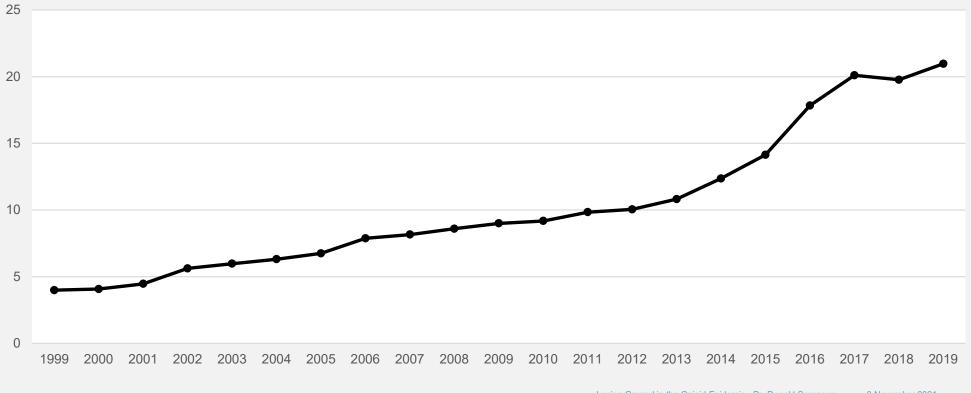
Opioid Abuse and Overdose Deaths per 100,000: Ages 25-84



Opioid Abuse and Overdose



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How Are Deaths Recorded?

Mortality Multiple Cause-of-Death Public Use Record

- Maintained by the National Center for Health Statistics (NCHS) at the CDC
- Created from all death certificates filed in the US
- Includes algorithm-interpreted 'underlying cause of death'
- Secondary or contributing conditions recorded on the death certificate are also reported
- All conditions are recorded using ICD codes (currently ICD-10)

How Are Opioid Deaths Recorded?



Overdoses

- Drug poisoning is reported in four different varieties:
 - Accidental (X40-44)
 - Suicide (X60-64)
 - Assault (X85)
 - Undetermined (Y10-14)

Abuse

- Drug deaths were sometimes reported as a severe consequence of intoxication, instead of poisoning
- Mental and behavioral disorders due to psychoactive substance use (F10-19)
- Appears to be corrected after 2006



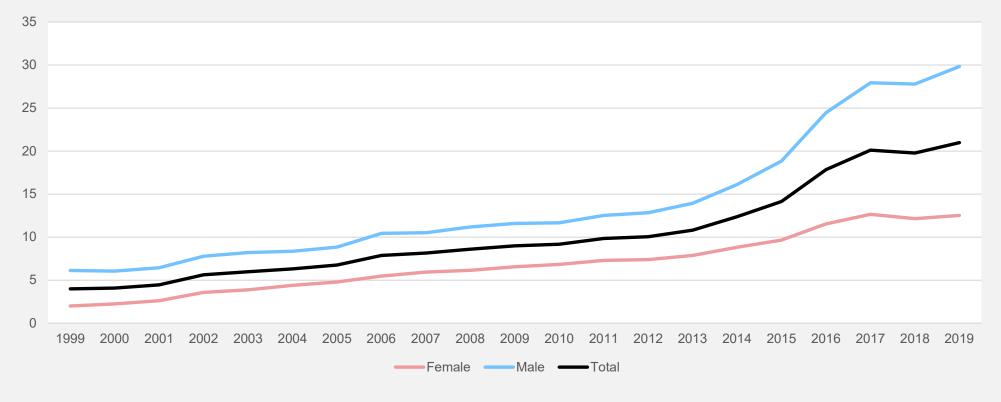
How Are *Opioids* Recorded?

- Aside from general categories, underlying causes do not report the *type* of drug involved. These are recorded as secondary conditions
- Poisoning by narcotics and psychodysleptics [hallucinogens] (T40):
 - T40.0 Opium
 - T40.1 Heroin
 - T40.2 Other opioids
 - Codeine
 - Morphine
 - T40.3 Methadone
 - T40.4 Other synthetic narcotics (Fentanyl)
 - T40.6 Other and unspecified narcotics
- Using secondary conditions alone leads to false signals from palliative, hospice, and end of life care.



Opioid Deaths by Gender

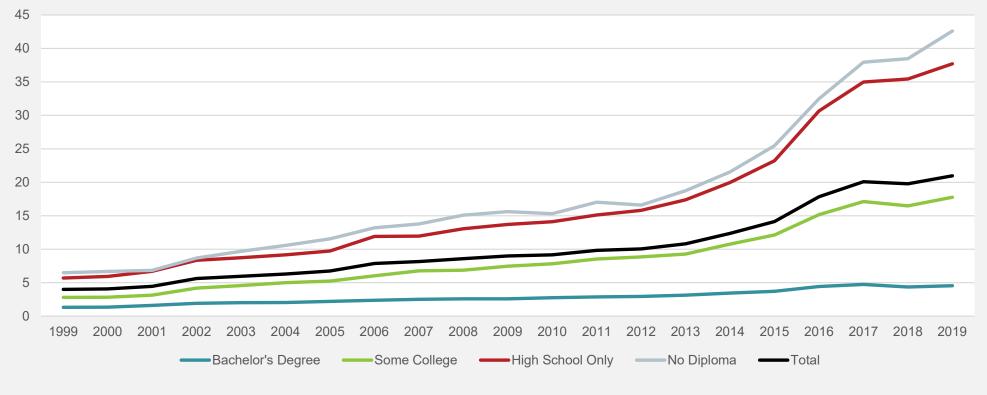
Drug Abuse and Overdose Deaths per 100,000 by Gender: Ages 25-84





Opioid Deaths by Education

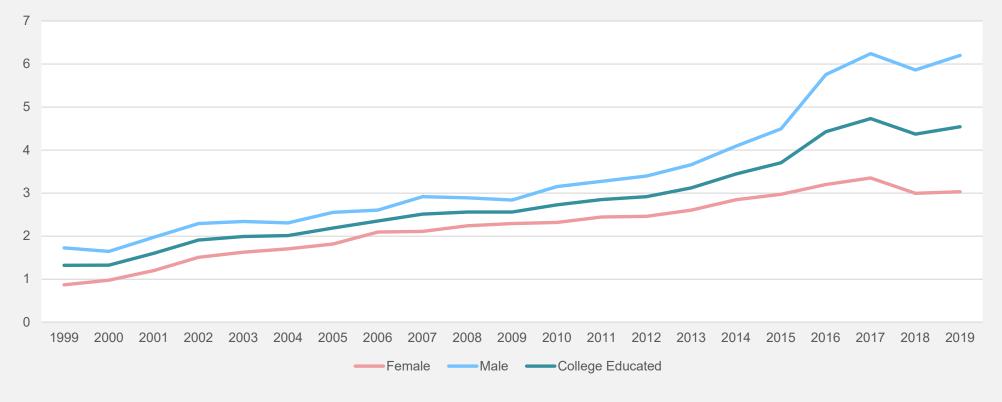
Drug Abuse and Overdose Deaths per 100,000 by Education: Ages 25-84



College Educated Opioid Deaths by Gender



Drug Abuse and Overdose Deaths per 100,000 by Gender: Ages 25-84





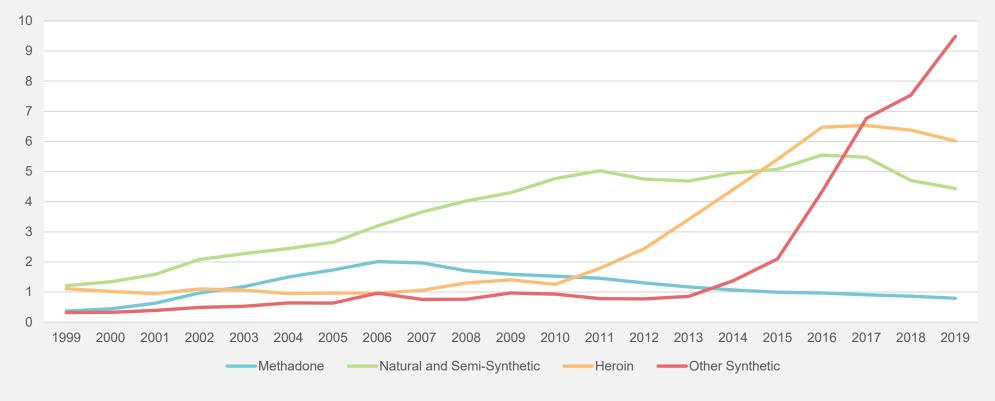
Categories and potency of opioids

Opioid	Туре	Strength Comparison
Codeine	Natural Opiate	0.15
Morphine	Natural Opiate	1
Hydrocodone*	Semi-synthetic	1
Oxycodone*	Semi-synthetic	1.5
Hydromorphone	Semi-synthetic	5
Methadone*	Synthetic	3
Heroin	Illegal Semi-synthetic	2 – 7
Fentanyl	Synthetic	75-100
Illegally-made fentanyl	Illegal Synthetic	1000 – 10,000

Opioid Deaths by Opioid Type



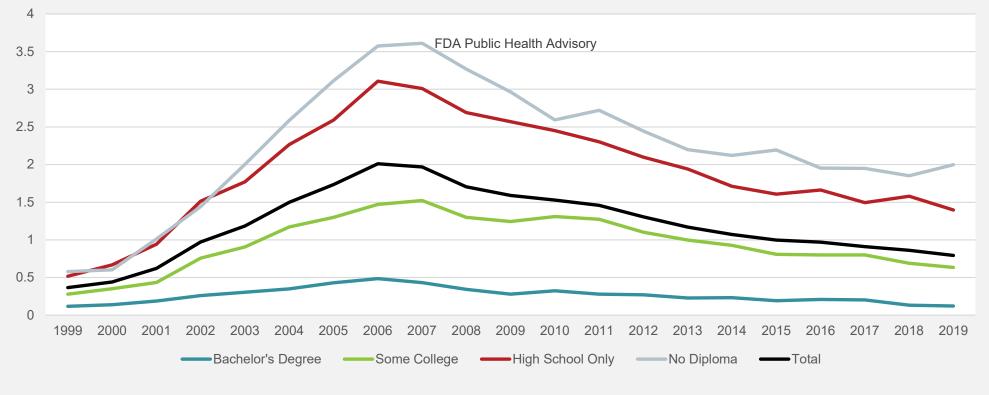
Drug Abuse and Overdose Deaths per 100,000 by Opioid Type: 25-84



Methadone



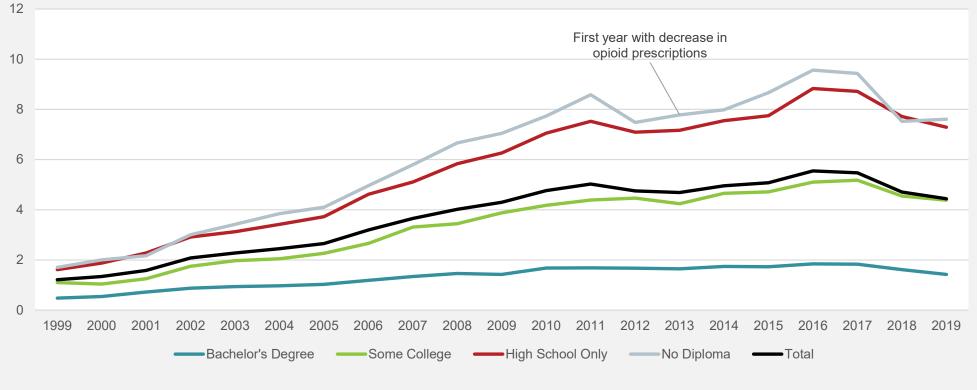
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Natural and Semi-Synthetic



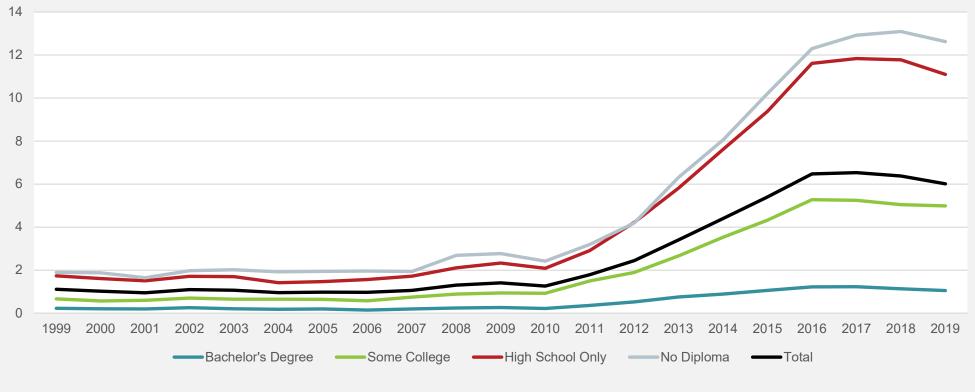
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Heroin



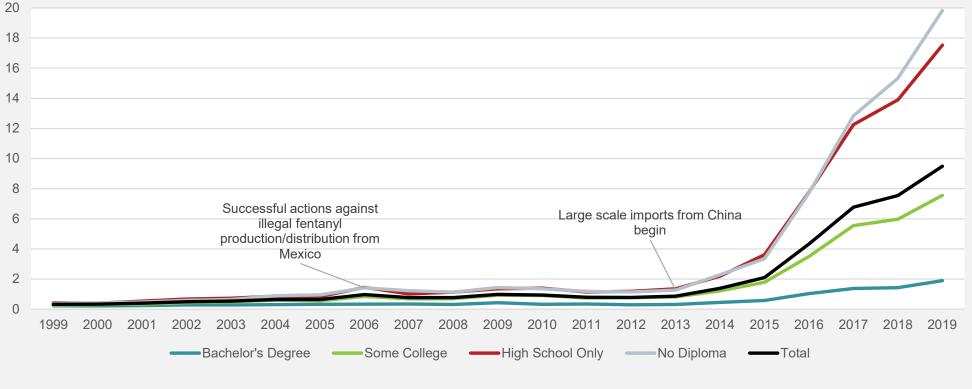
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Other Synthetics

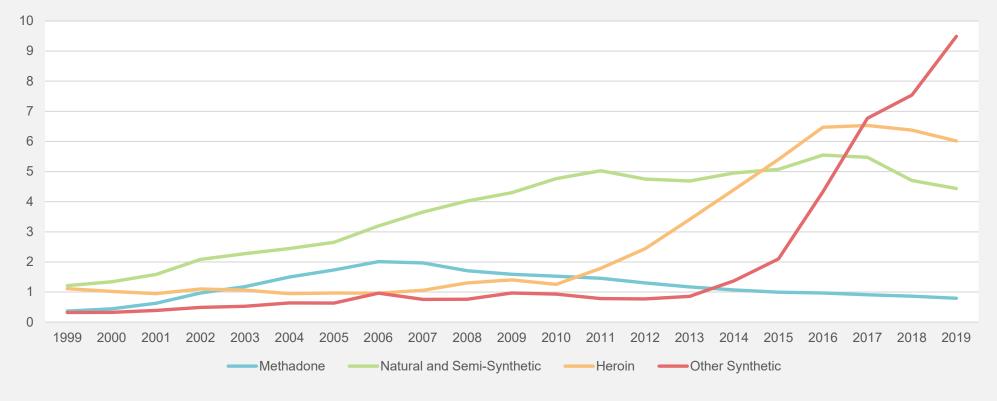
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Opioid Deaths by Opioid Type



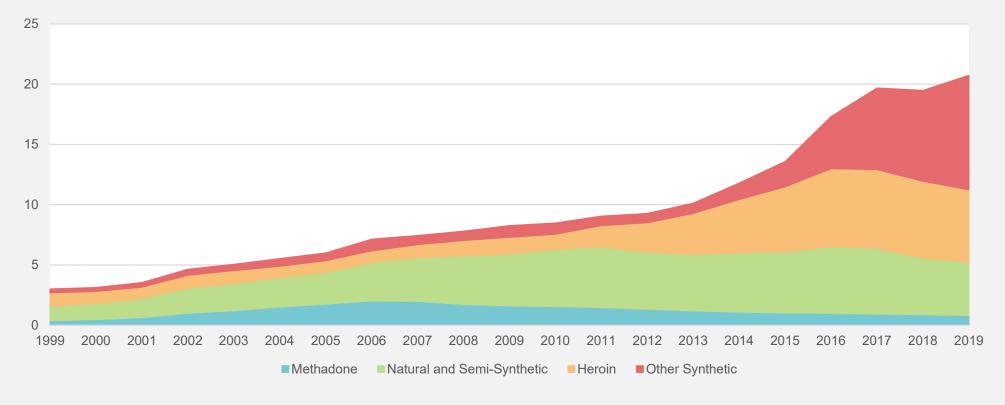
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Opioid Deaths by Opioid Type



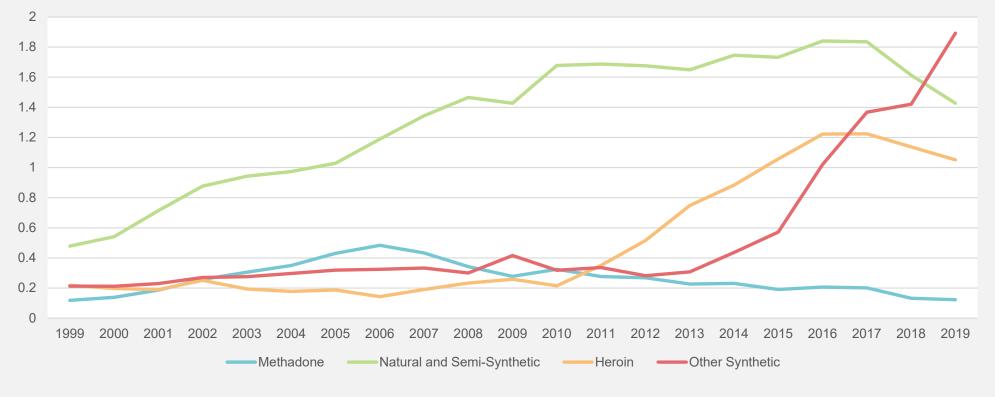
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College Educated Opioid Deaths by Opioid Type



Drug Abuse and Overdose Deaths per 100,000 by Opioid Type: 25-84



Provisional Drug Overdoses Reported for 2020-2021



Monthlitized Drug Overdose Death Counts, 2014-2021

