



Prescription Opioid and Heroin Crisis in Philadelphia

Board of Health

March 9, 2017



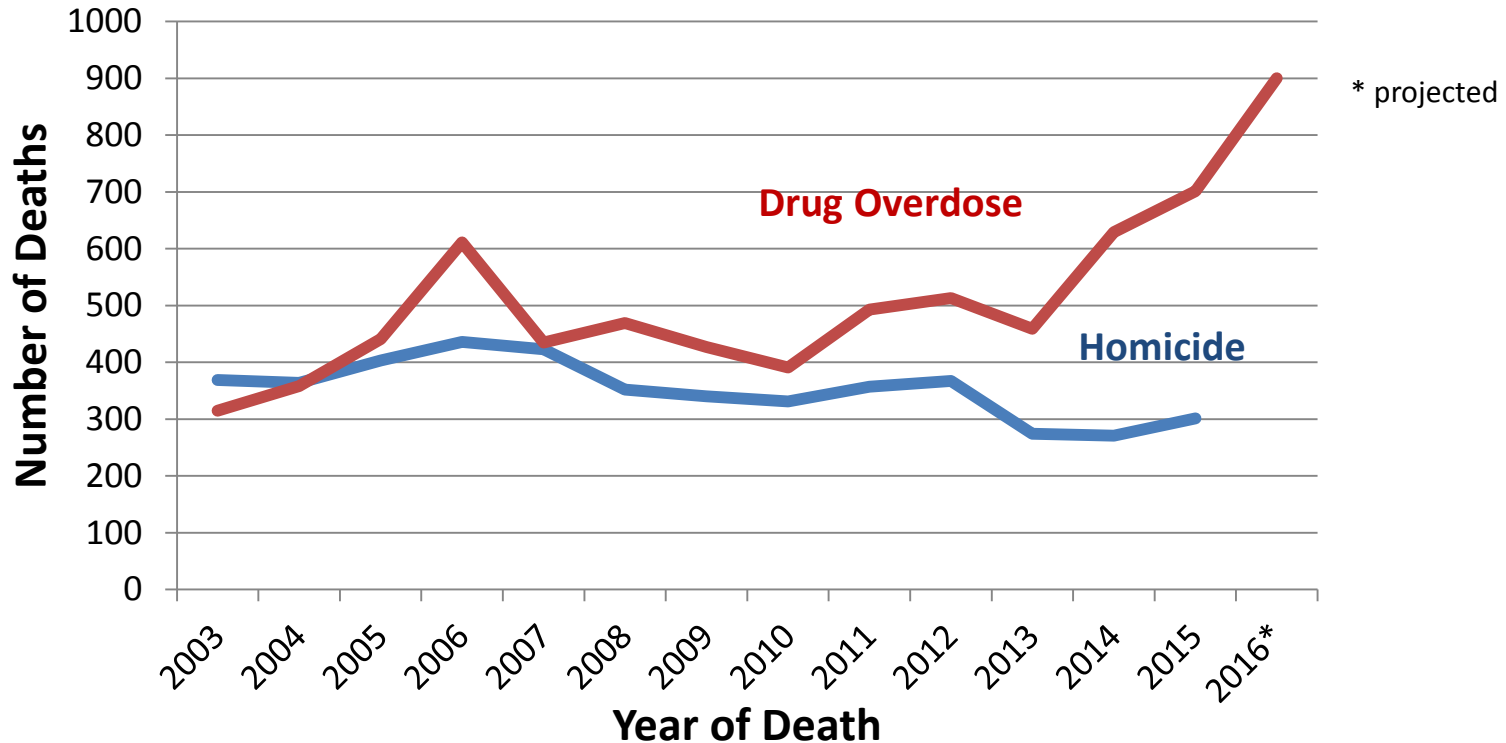
Outline

- Overdoses in Philadelphia
- Prescription opioids
- Transition to heroin
- Magnitude of the problem
- Approaches to a solution



Drug overdoses in Philadelphia

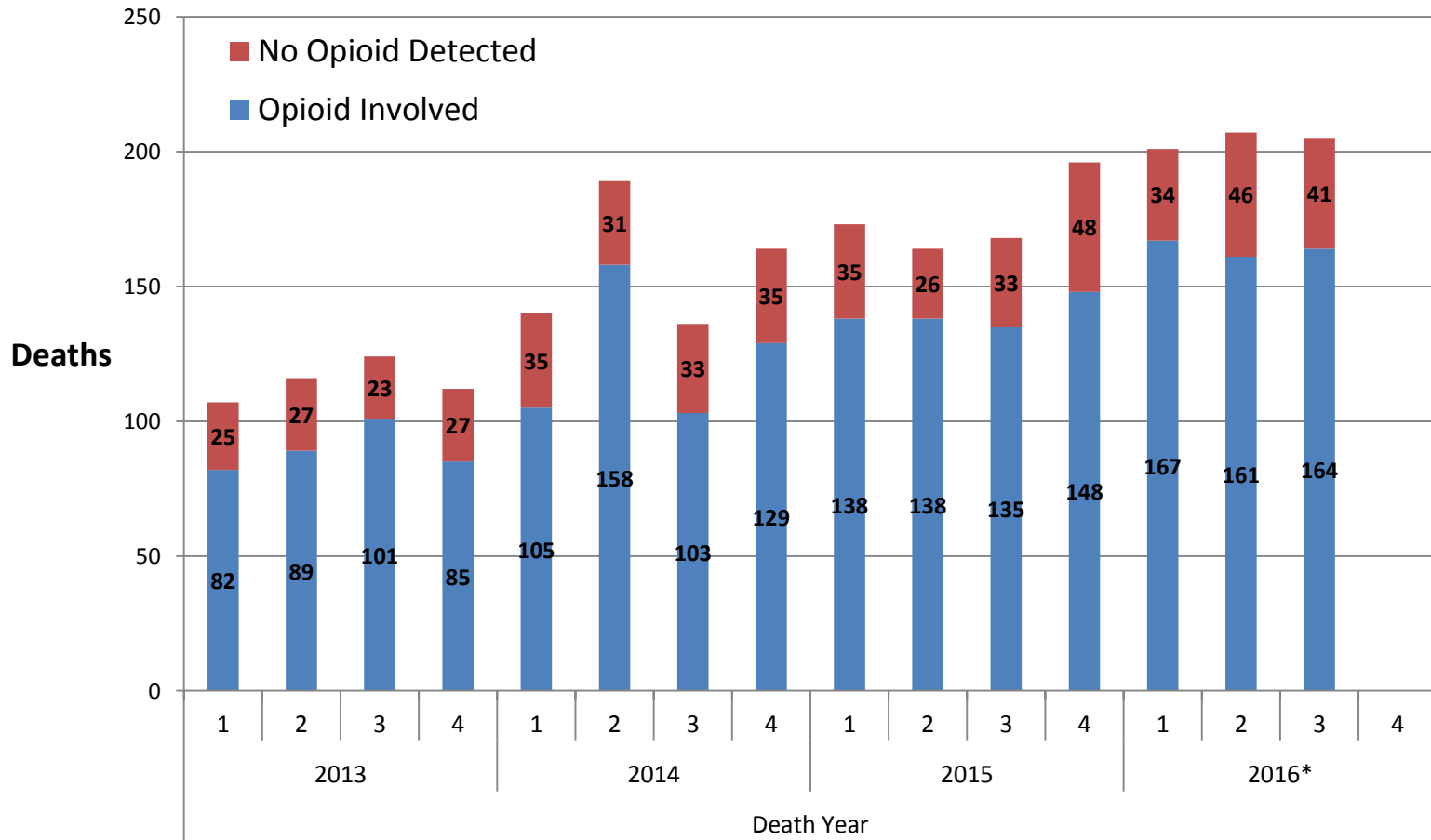
Number of Overdose and Injury-related Deaths – Philadelphia, 2003-2016*



Drug overdose deaths continue to rise in Philadelphia, with close to 900 deaths expected in 2016



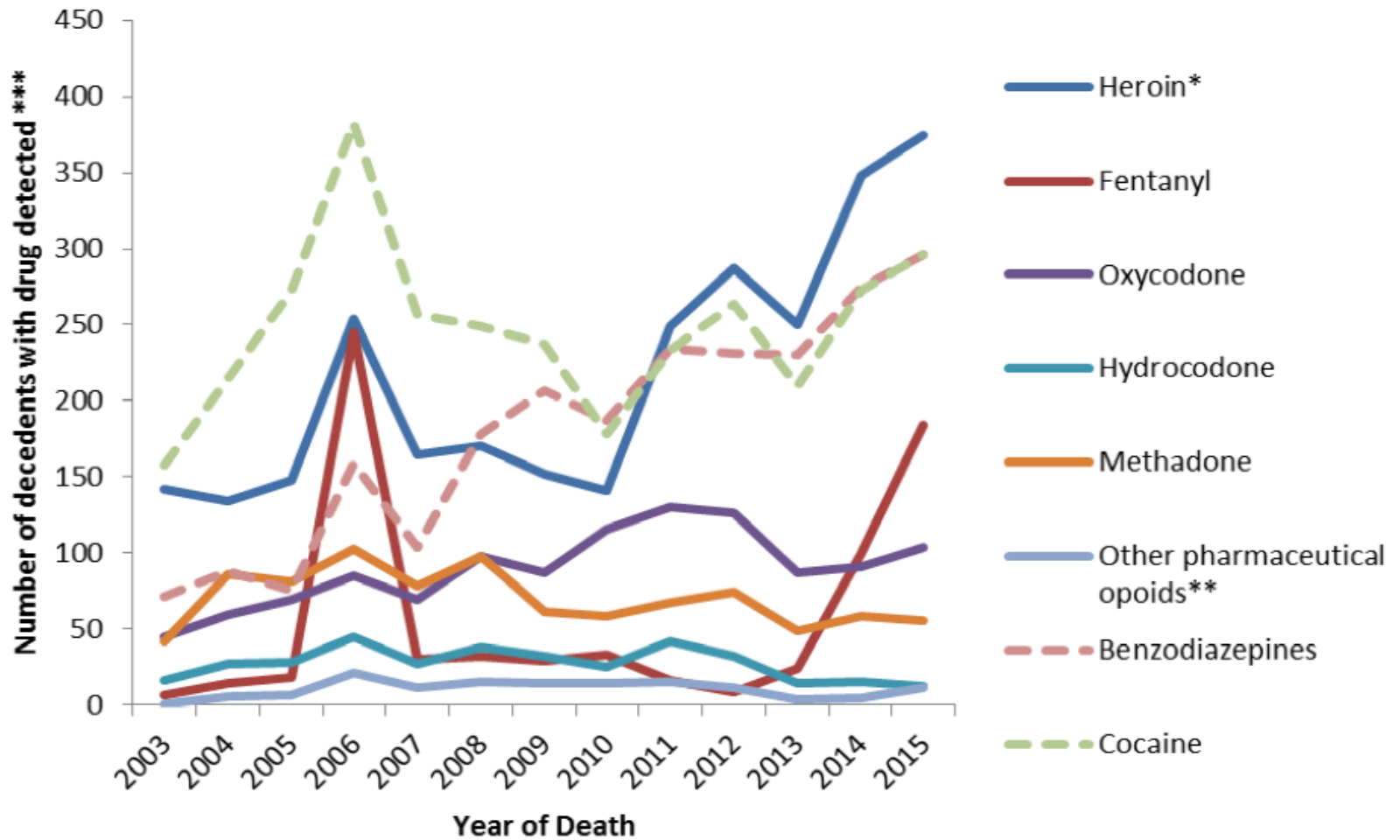
Deaths continue to rise steadily



~80% of these deaths involve opioids



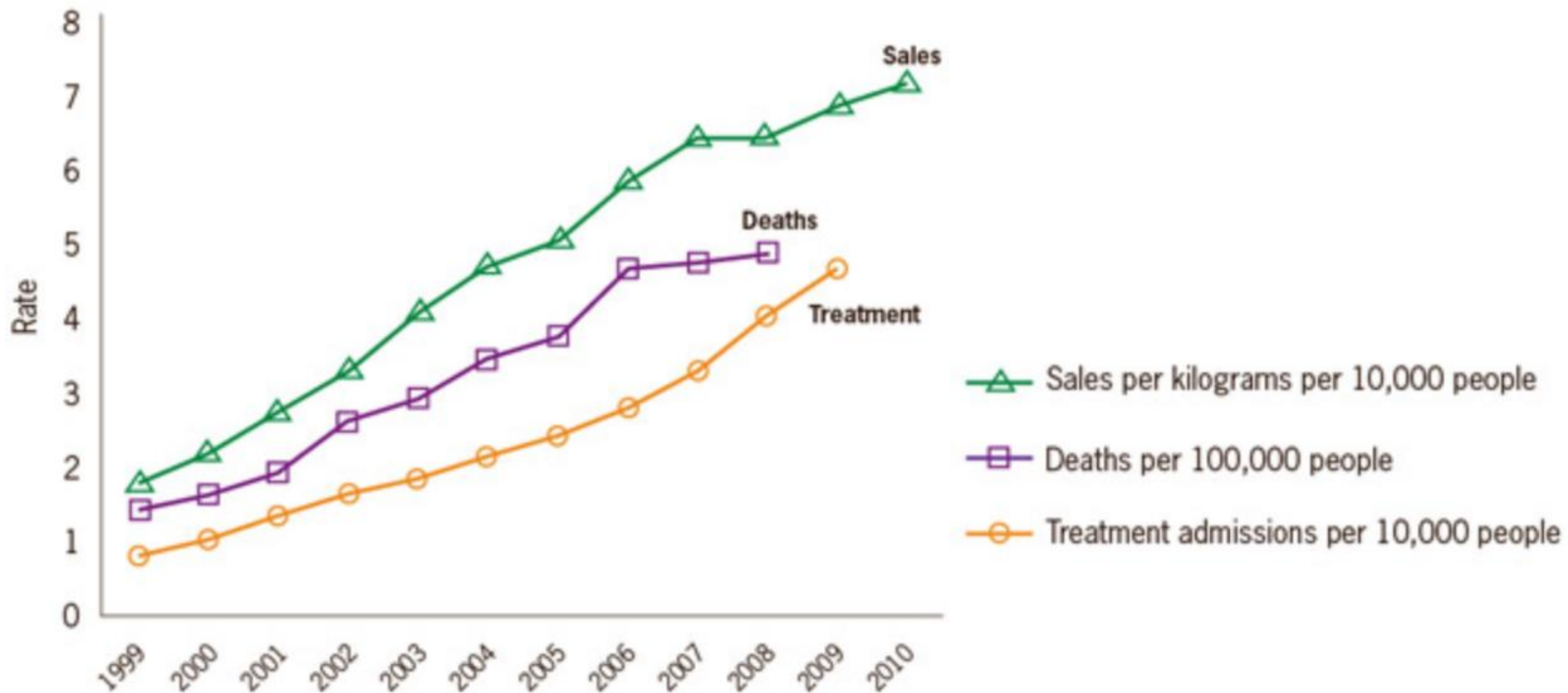
Drug overdoses in Philadelphia



Opioids include prescription medications, heroin and fentanyl



Prescription Opioid Sales, Treatment Admissions, and Overdose Deaths U.S., 1999-2010

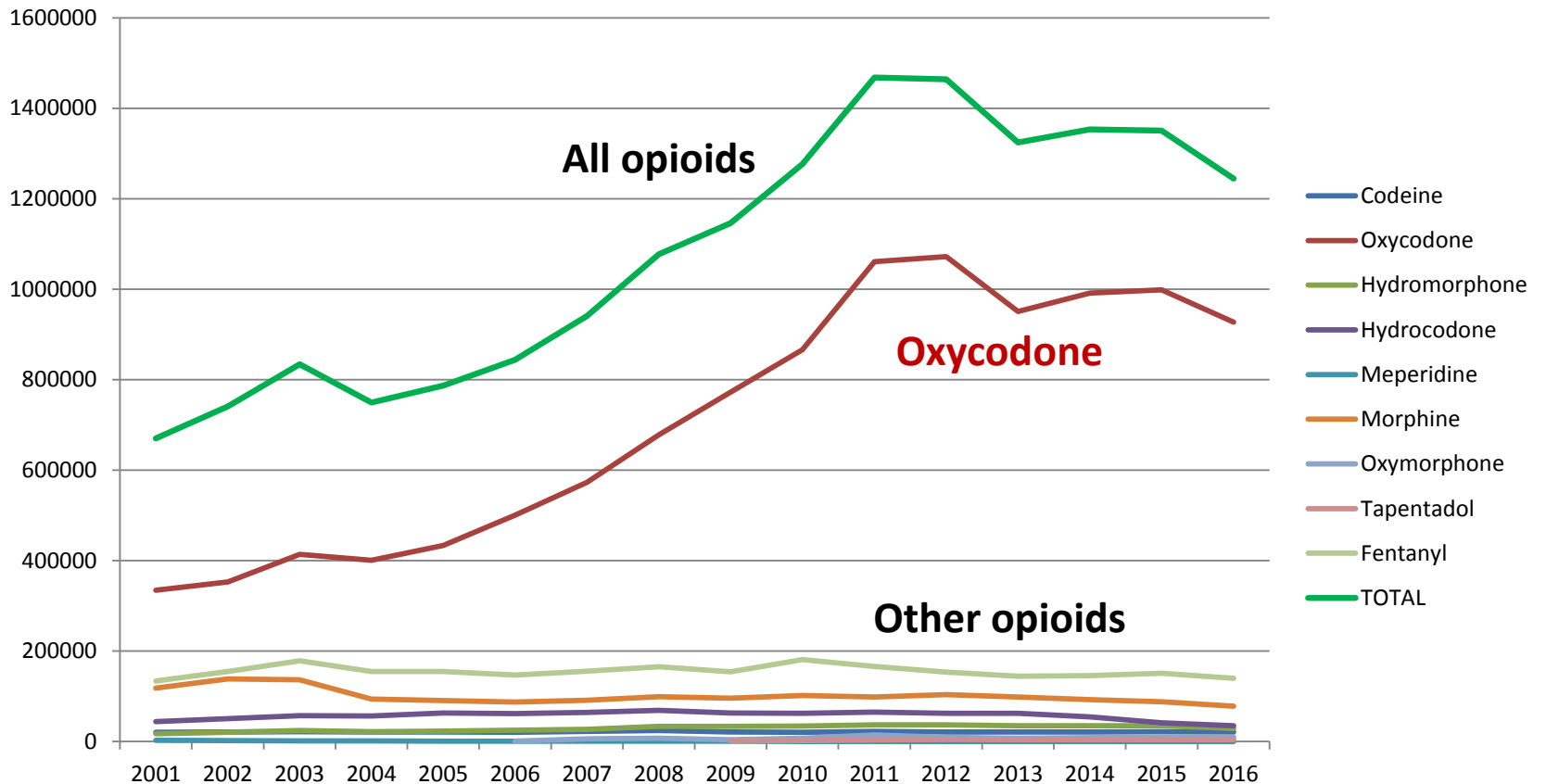




Prescription Opioids

In Philadelphia, sales increased 2x between 2001-2012

Sales of Opioids, Philadelphia, 2001-2016



Reports from DEA Automated Reports and Consolidated Ordering System (ARCOS) system for Philadelphia zip codes



Transition to Heroin



\$25

30mg Roxicodone,
street price in Philadelphia



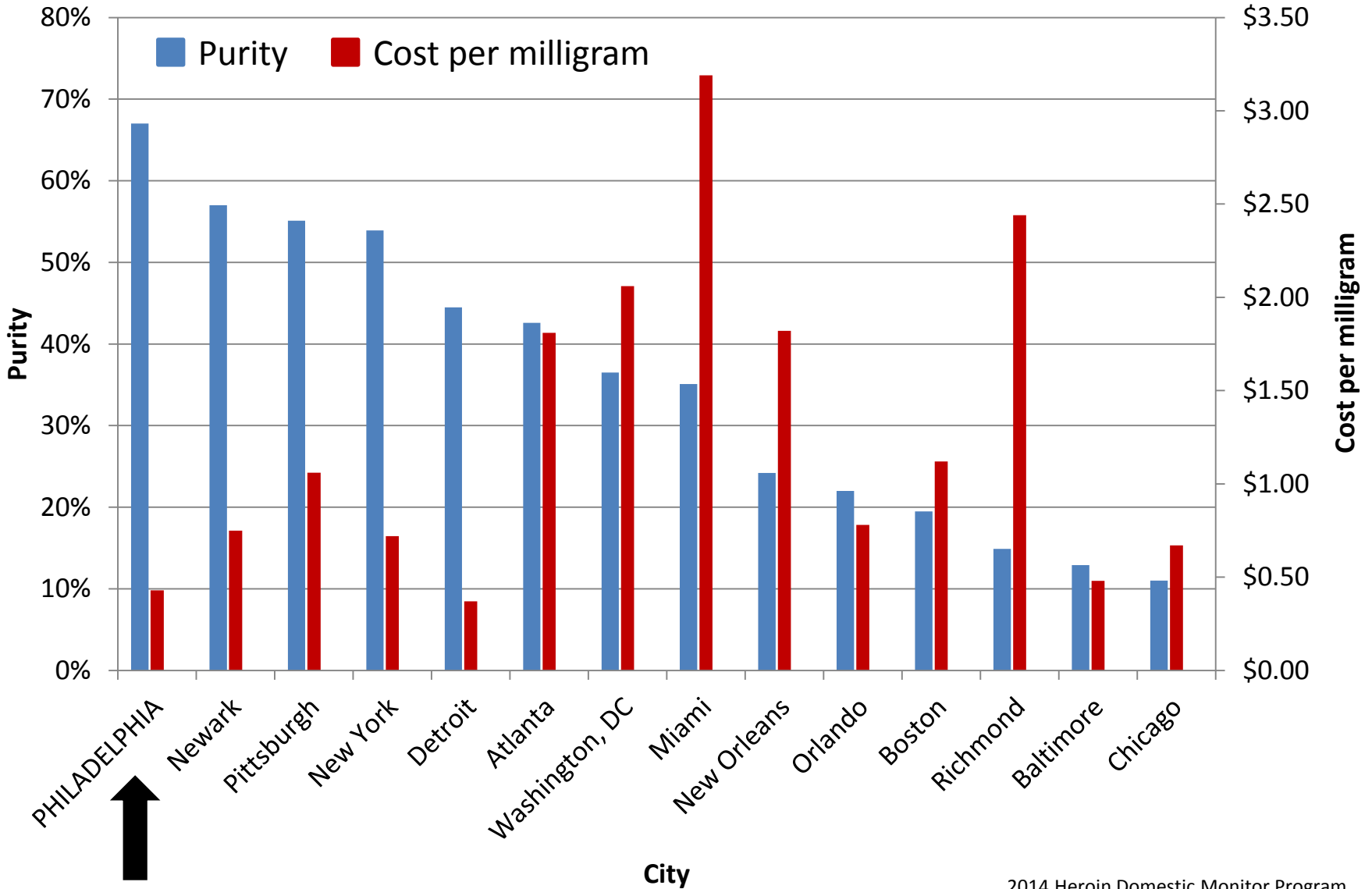
\$14

30mg South American heroin

- Few people who misuse pharmaceutical opioids become heroin users (4% initiate heroin use within 5 years)
- People who have misused opioid pain relievers are 19 times more likely than others to start using heroin



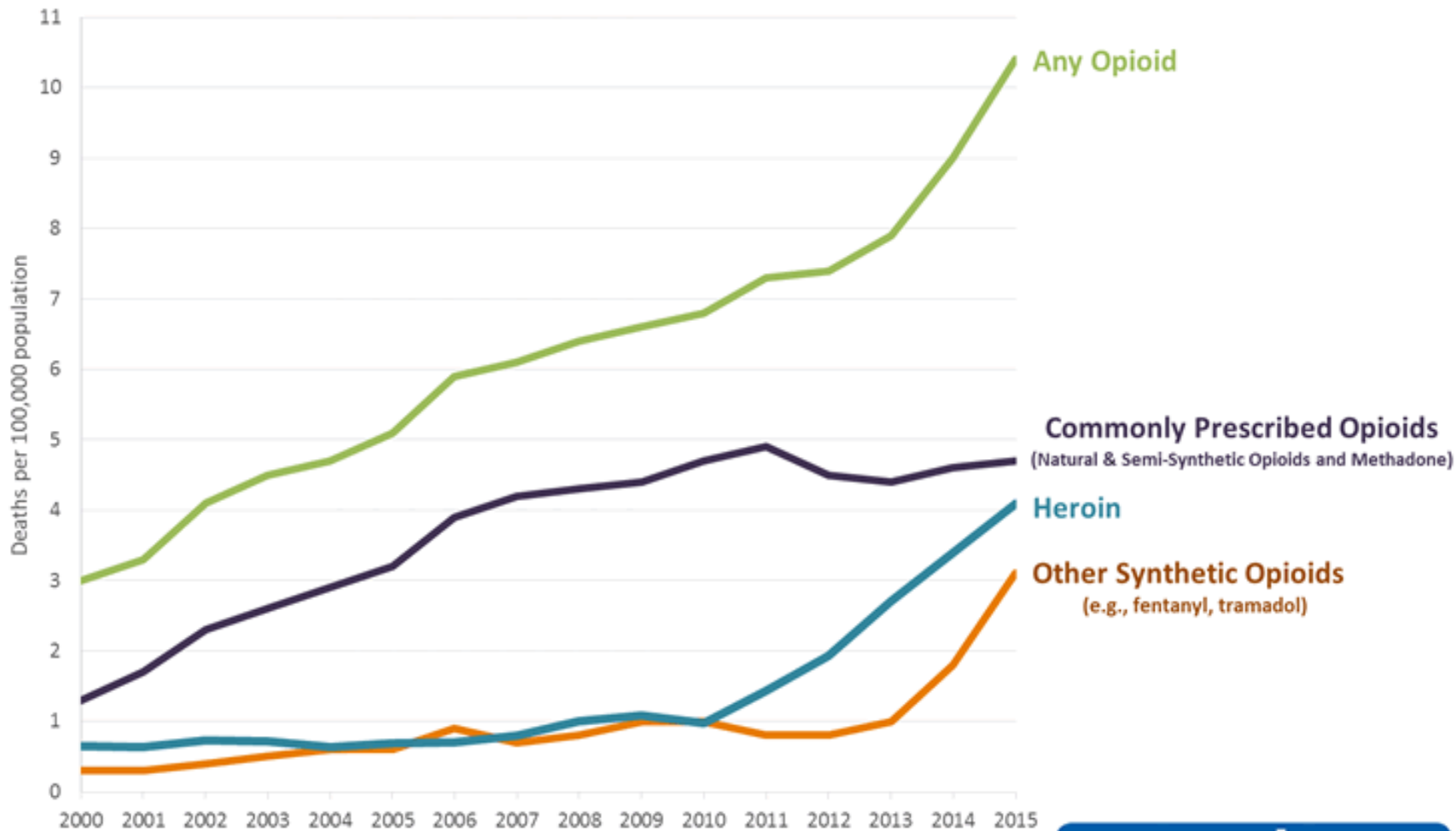
Heroin is pure and cheap in Philadelphia





Evolution of the Opioid Crisis

Overdose Deaths, U.S., 2000-2015



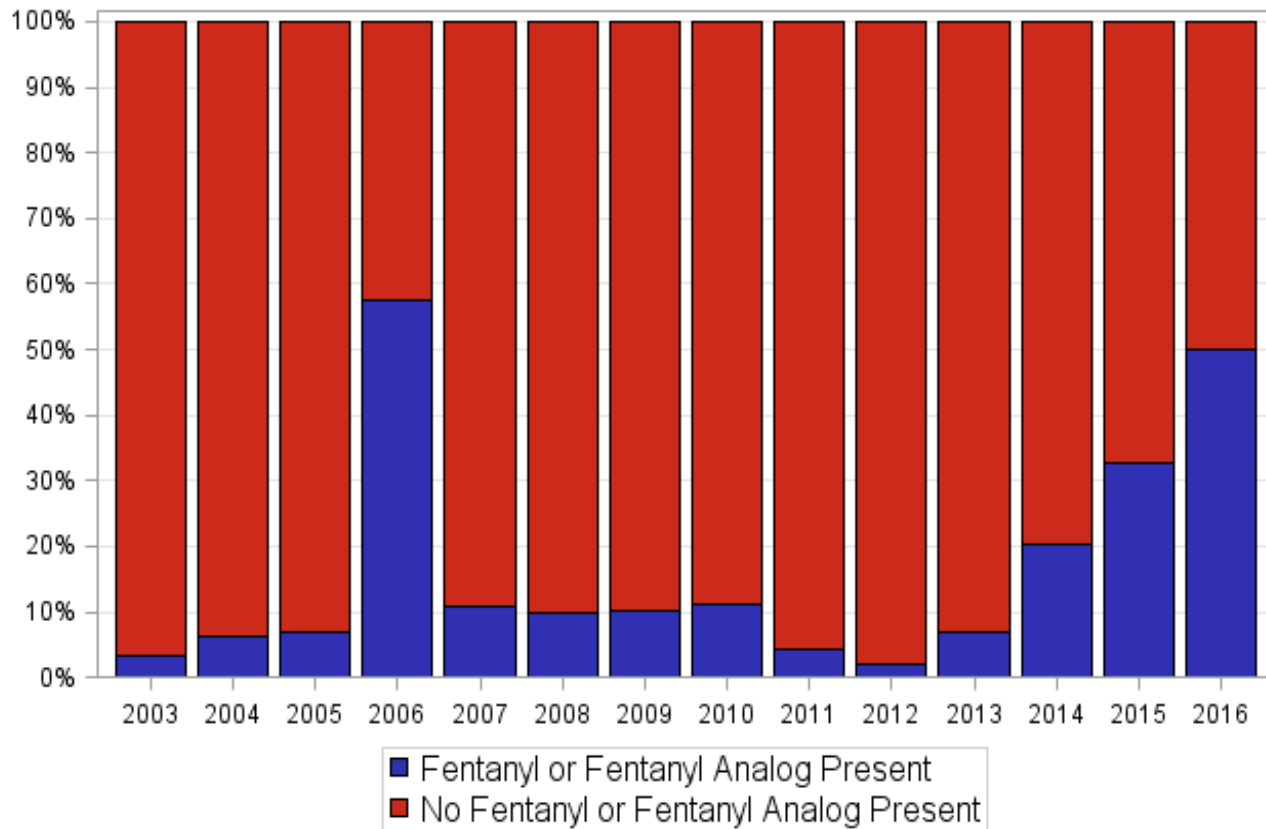
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality. CDC WONDER, Atlanta, GA: US Department of Health and Human Services, CDC; 2016. <https://wonder.cdc.gov/>.





Fentanyl

Percentage of Unintentional Opioid Related Deaths with Fentanyl or a Fentanyl Analog Present, 2003-2015



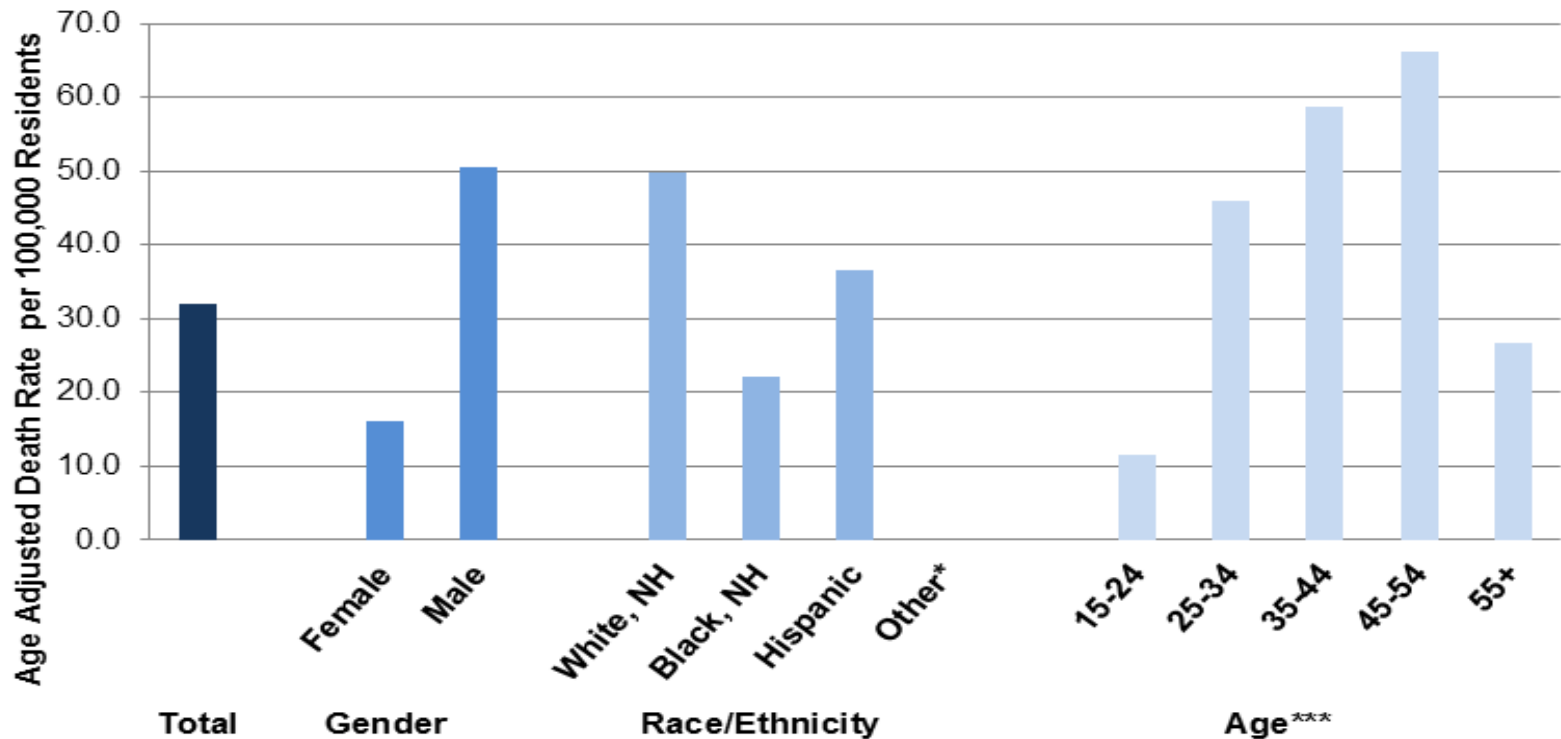
Data for 2016 includes data through September 30, 2016 and are subject to change

Fentanyl, a synthetic opioid that is 50-100 times stronger than morphine, is increasingly found in users who have fatally overdosed



Opioid-Involved Overdose Deaths

Age-Adjusted Death Rate* per 100,000 Residents, 2015



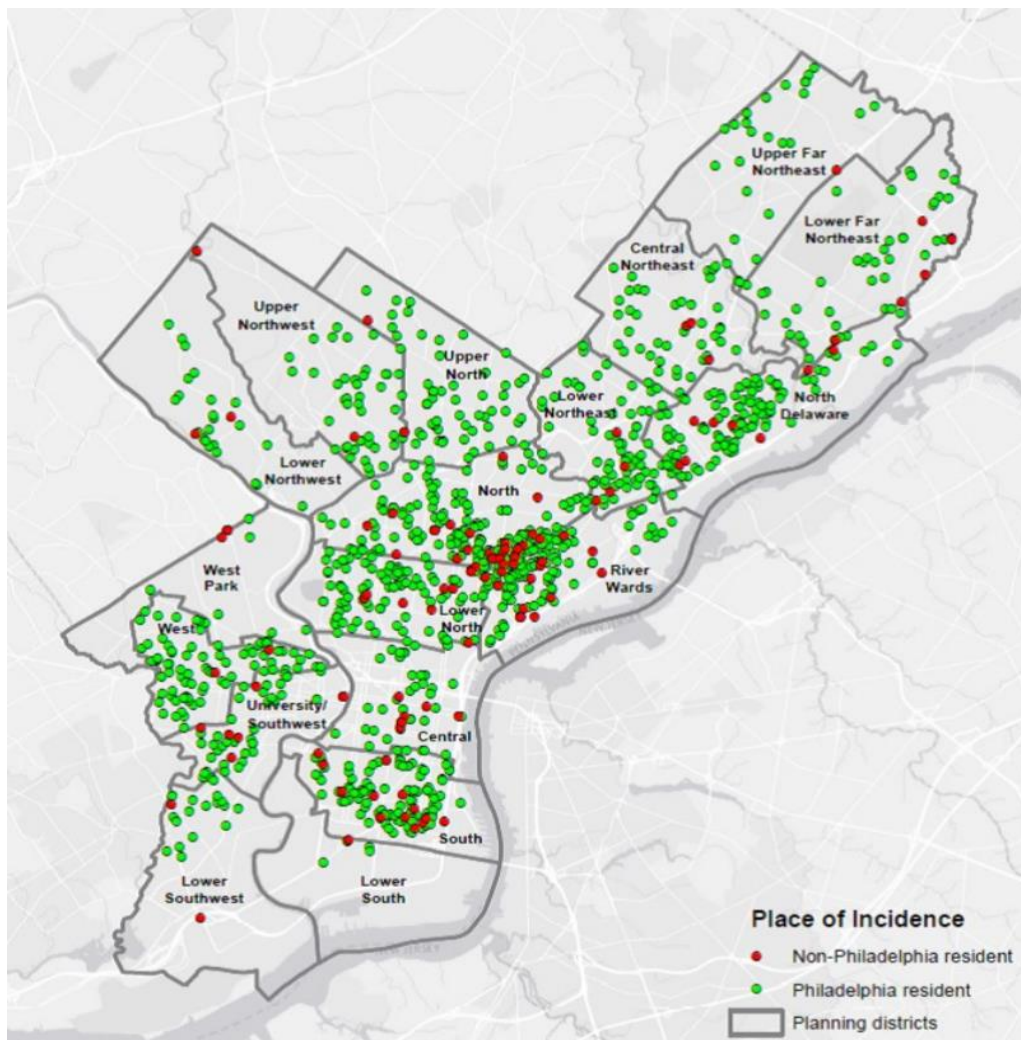
*Rates are calculated using Philadelphia county population denominators from the 2015 American Community Survey 1-year estimates. Rates are adjusted to the 2000 U.S. Standard Population age distribution.

** Deaths among persons who had race/ethnicity listed as other were too few to calculate a rate

*** Age-specific death rates are shown



Drug overdoses in Philadelphia, 2014-2015



While many overdose deaths occur in the Kensington area, they happen across all of the city



Estimated magnitude of the problem in Philadelphia

Fatal overdoses <small>Source: Medical Examiner's Office</small>	~900
In treatment for opioid dependence (publicly funded) <small>Source: CBH/BHSI</small>	~14,000
Heroin use (last year) <small>Source: NSDUH, BHSI</small>	~55,000
Misuse/abuse of prescription opioids (last year) <small>Source: NSDUH</small>	~55,000
Adults receiving >1 opioid prescription/year <small>Source: PA DHS, Aetna, Census</small>	~150,000

Fatal overdoses are only the tip of the iceberg



PDPH involvement in Addressing the Opioid Crisis

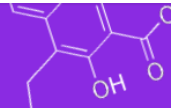
- **Reducing over-prescribing of opioids** to reduce number of people who become dependent
- **Increasing treatment** for those already dependent
- **Increasing availability and use of naloxone** to prevent fatal overdose



Reducing over-prescribing of opioids

- Opioid and benzodiazepine prescribing guidelines
- Analyze prescribing data for targeted education to high prescribers

Opioid Prescribing



Opioids can provide short-term relief of moderate to severe acute pain, but there is little evidence supporting their effectiveness for chronic pain, and they have substantial risks. Long-term opioid use should be reserved for patients with cancer-related pain, or patients receiving palliative or end-of-life care. If you prescribe opioids for other conditions, use safety principles as embodied by [Limiting Use](#) and [Avoiding Adverse Consequences](#).

Limiting Use

- 1 **Do not prescribe opioids as first-line or routine therapy for chronic pain;** use nonpharmacologic and nonopioid pharmacologic therapies first (see Chronic Pain Treatment Principles).
- 2 **Discuss benefits, risks, and side effects of opioid therapy (e.g., addiction, overdose);** continue to discuss the risks and benefits of opioids throughout treatment.
- 3 **Set realistic and measurable goals for pain and function;** plan for how opioid therapy will be stopped if benefits do not outweigh risks.
- 4 **Use short-acting opioids when starting opioid therapy for chronic pain.**
- 5 **Prescribe the lowest effective dosage when starting opioid therapy,** and reassess risks and benefits when increasing dosages to 50 morphine milligram equivalents (MME) per day or more, and avoid increasing dosages by 90 MME per day or more.
- 6 **Long-term opioid use often starts with treatment of acute pain.** When using opioids for acute pain, prescribe short-acting forms and no more than necessary; three days or less is often sufficient.

Prescribing Calculations
50 morphine milligram equivalents (MME) =
50 mg hydrocodone/day, or 33 mg oxycodone/day

Avoiding Adverse Consequences

- 7 **Follow-up regularly to re-evaluate risk of harm and reduce dose or taper if needed;** follow-up should occur within one to four weeks of starting opioid therapy or increasing dosage and continue quarterly.
- 8 **Prescribe naloxone to individuals who are undergoing long-term opioid therapy,** due to the higher risk of an overdose while taking these drugs.
- 9 **Check the Prescription Drug Monitoring Program (PDMP)** for prescriptions from other providers when starting opioid therapy and each time before writing a prescription.
- 10 **Use urine drug screening to identify prescribed substances and undisclosed use of other drugs** before starting opioid therapy and periodically thereafter.
- 11 **Avoid concurrent benzodiazepine and opioid prescribing.**
- 12 **Arrange treatment for opioid use disorder if needed, including medication-assisted treatment (buprenorphine or methadone).** Philadelphia's Department of Behavioral Health and Intellectual Disability Services can help you identify [treatment options through its website](http://bit.ly/DBHResources). (<http://bit.ly/DBHResources>)
- 13 **Consider incorporating buprenorphine treatment into your own practice.** Find out how through the [SAMHSA website](http://bit.ly/BUPTTraining). (<http://bit.ly/BUPTTraining>)



Increasing Access to Treatment

- Supporting primary care clinics across the city in offering buprenorphine
- Start buprenorphine prescribing in Health Centers





Naloxone

Administered to by EMS (2016)	~4,000
Administered by Police (2016)	~200
+ Distributed by Prevention Point (2016)	~5,500
<hr/>	
	~9,700

Despite this use of naloxone, approximately **25** **people die** from opioid overdoses **every day** in Philadelphia.



Increasing Access to Naloxone

- Community education and distribution
- Educating and distributing naloxone to inmates of Philadelphia Department of Prisons
- Pharmacy outreach





Mayor's Task Force

