

### Opioid Overdose: Understanding the Current Epidemic in Chicago

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#### **Data Sources**

**Opioid Use and Misuse**CDPH Healthy Chicago Survey

**Opioid Overdose** 

Chicago Fire Department, EMS Responses

**Opioid Overdose Death** 

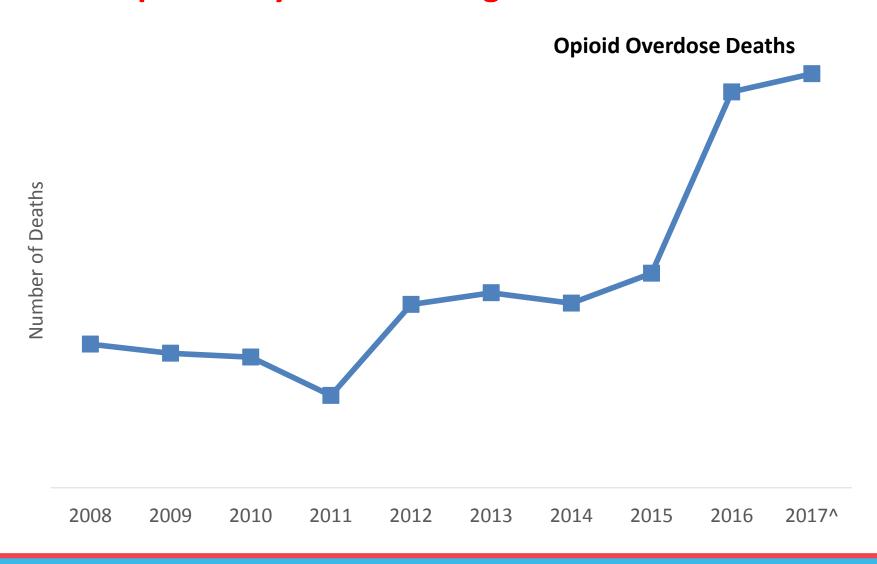
Cook County Medical Examiner

### In Chicago, in 2017:

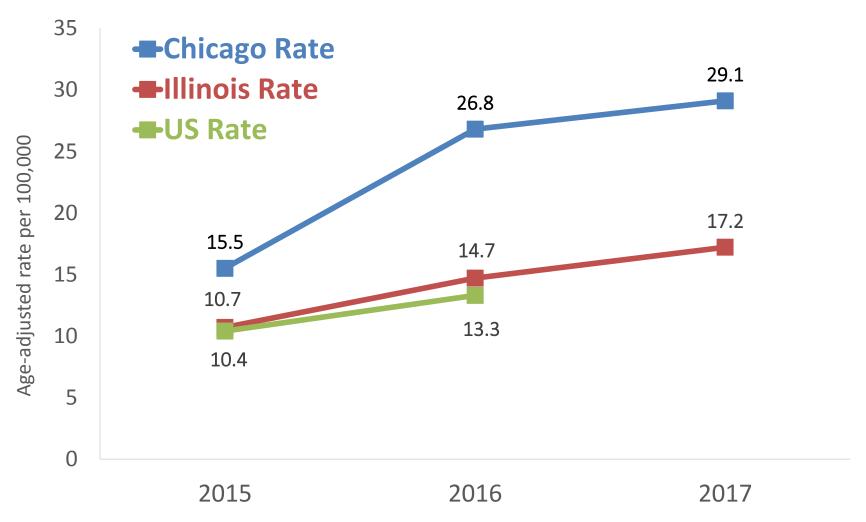
Almost 800 people died from an opioid-related overdose and

7,500 people received EMS services for an opioid overdose

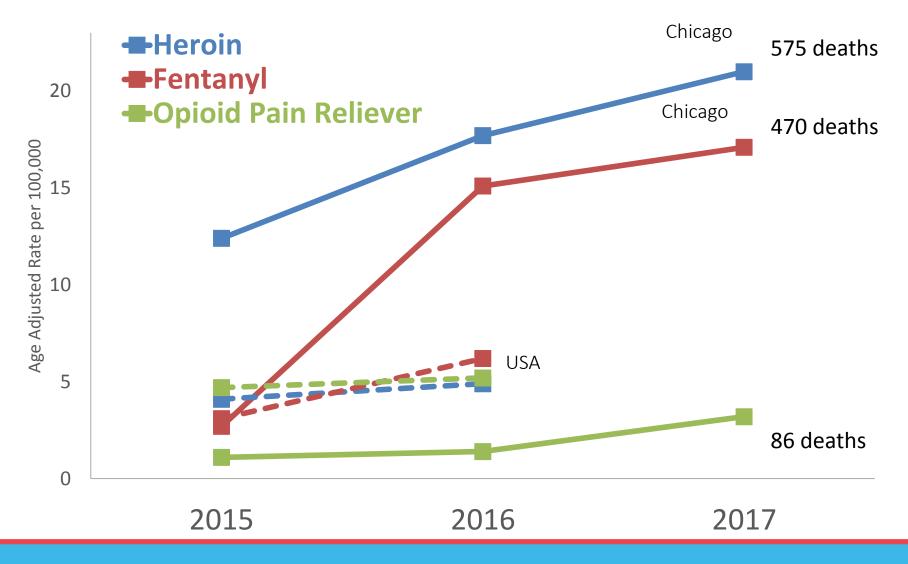
# Opioid overdose deaths have increased dramatically in the past ten years in Chicago



# The opioid overdose death rate is over 1.5x higher in Chicago than in Illinois



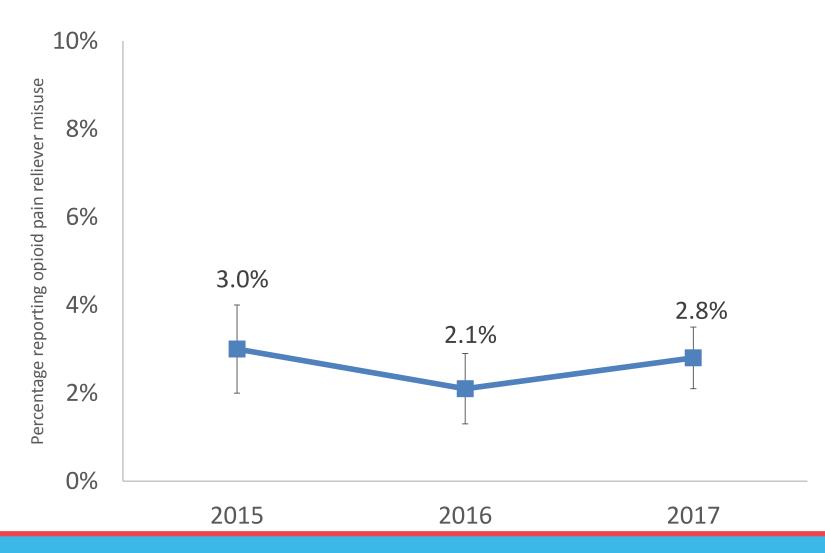
### Fentanyl and heroin overdose death rates are over 5x and 6x higher than the opioid pain reliever overdose death rate



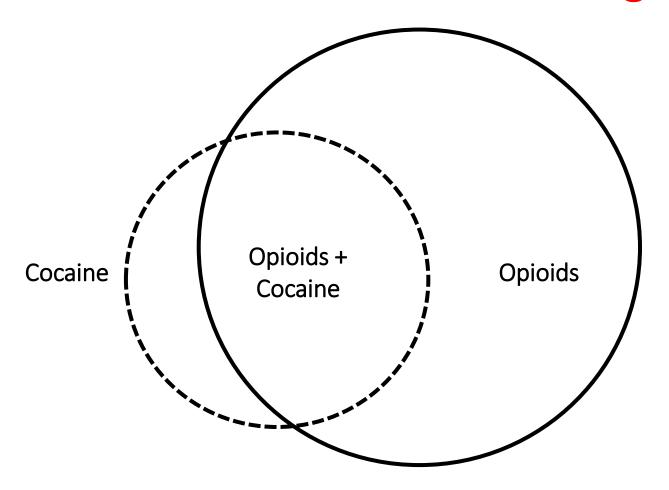
In <u>one</u> year in Chicago the number of opioid overdose deaths involving *fentanyl* increased

from 71 to 420.

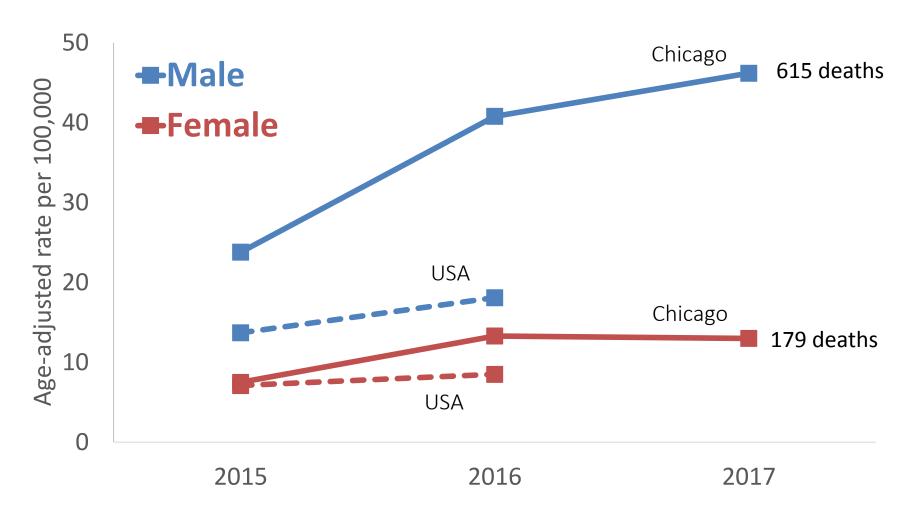
# Opioid pain reliever misuse among adults in Chicago has remained steady over the past three years.



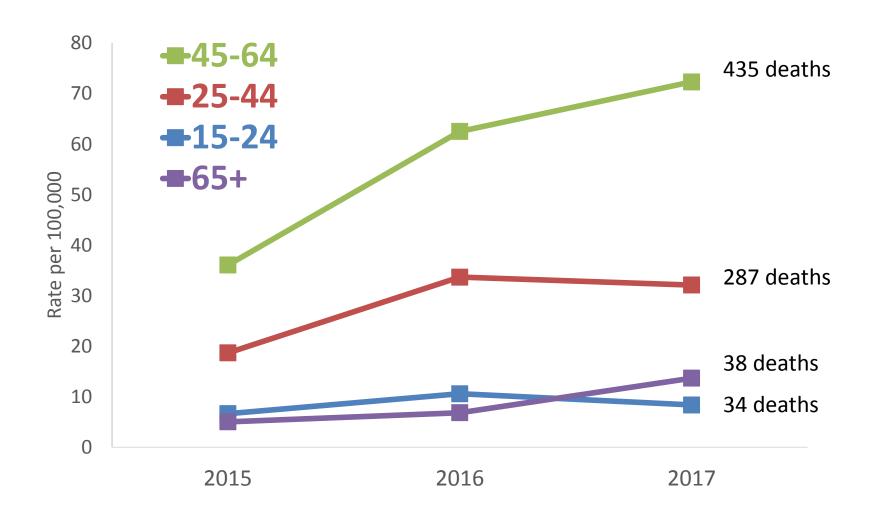
#### Cocaine was involved in 1/3 of all opioidrelated overdose deaths in Chicago (2017)



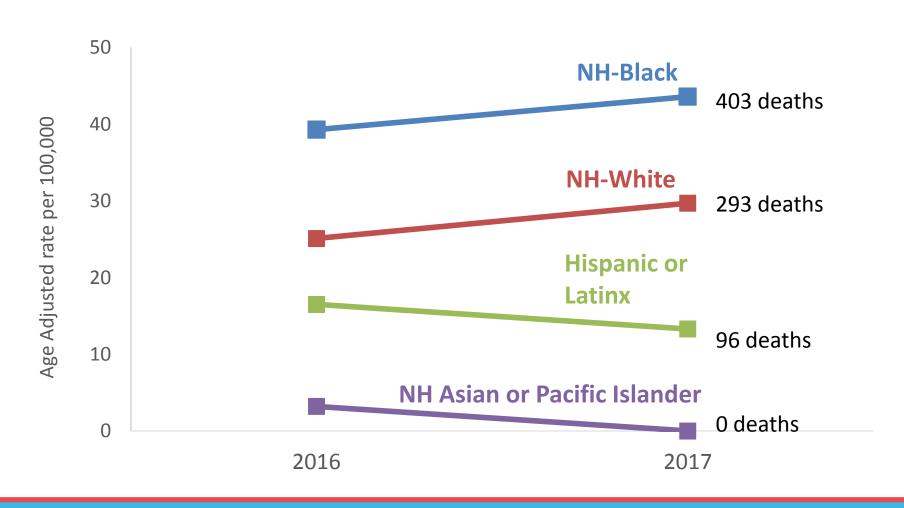
## In Chicago, the opioid overdose death rate was 3.5x higher for men than women



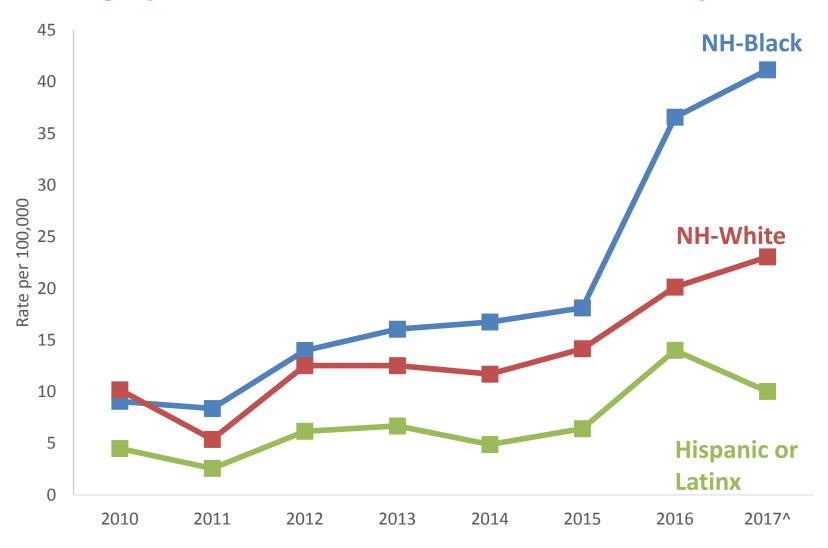
## In Chicago, the opioid overdose death rate was 2x higher among 45-64 year olds than among 25-44 year olds



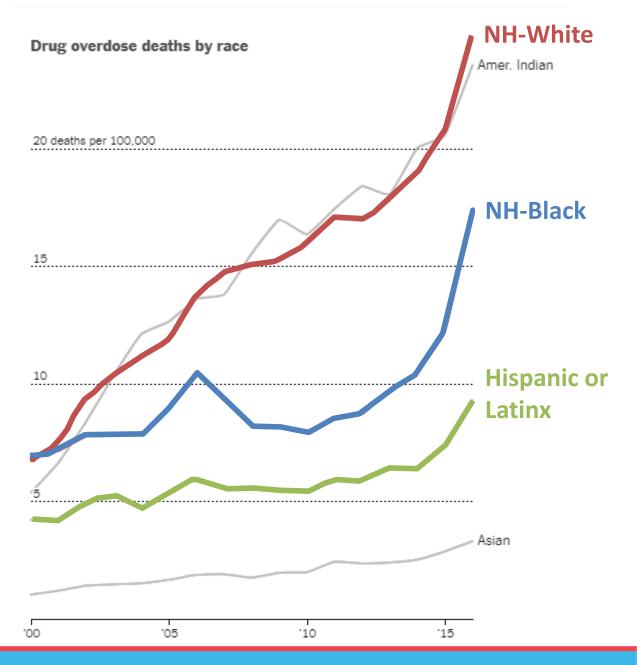
# In Chicago, opioid-related overdose rates are higher for non-Hispanic Black than other race groups



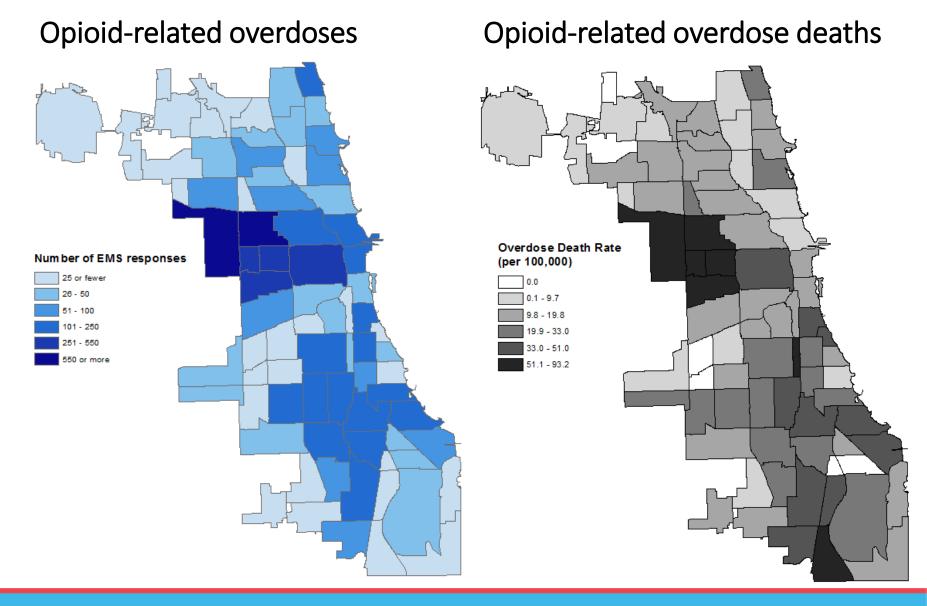
# Racial disparities in opioid-related overdose death rates in Chicago persist and have widened in recent years



In contrast, in the US, overdose death rates are highest among NH Whites, however drug overdose deaths are rising the fastest among NH Blacks

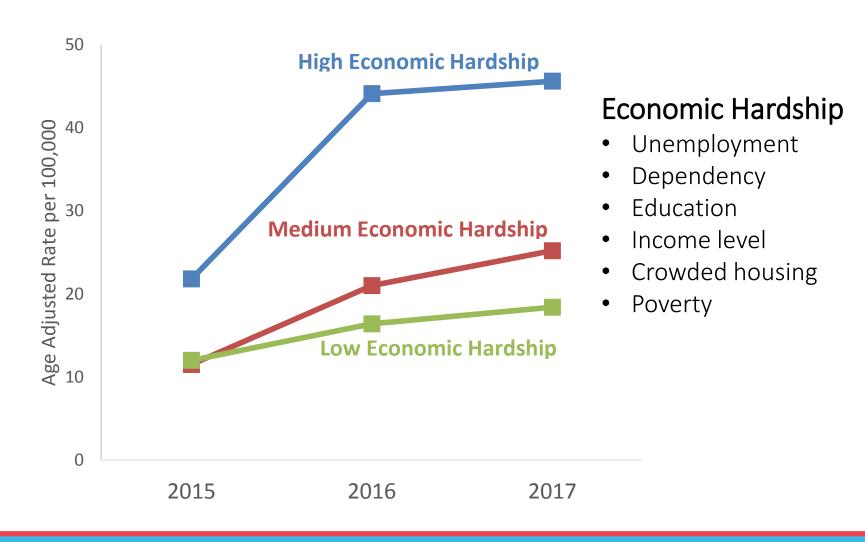


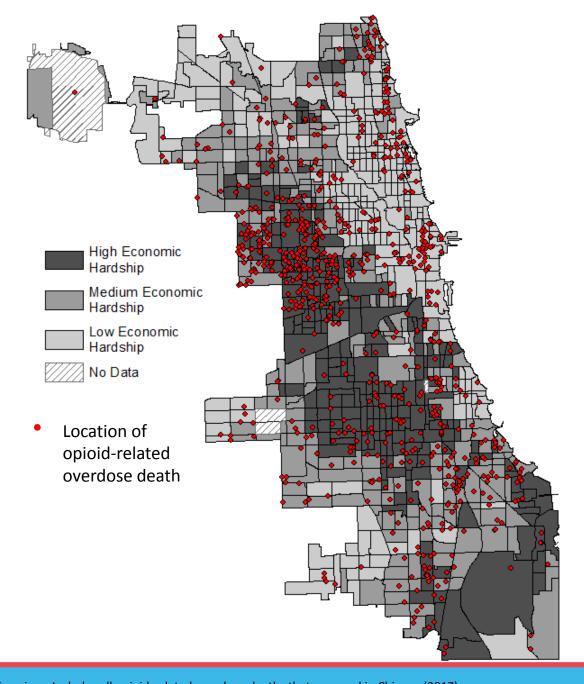
#### Opioid overdoses occurred in every Chicago neighborhood

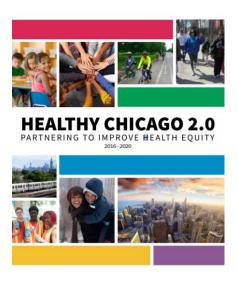


**Data Source:** Overdose: Chicago Fire Department Emergency Medical Services. Includes all overdoses that occurred in Chicago in 2017. Overdose Death: Cook County Medical Examiner. Includes all opioid-related overdose deaths among Chicago residents in 2017.

### Opioid overdose death rates are higher in neighborhoods with high economic hardship in Chicago.







#### **Objectives**

- Reduce opioid overdose by 20%
- Reduce prescription opiate abuse

#### **Strategies**

- Naloxone distribution and overdose prevention education (HC2.0)
- Medication Assisted Treatment (HC2.0)
- Syringe exchange and other harm reduction strategies
- Improve economic conditions and address root causes
  - Affordable housing
  - Job training and availability
  - Education opportunities

#### **Conclusions**

#### In Chicago:

- The opioid overdose death rate continues to increase and is 1.5x larger than the rate in IL.
- Over 90% of deaths involved illicit opioids (heroin and/or fentanyl) rather than prescription opioid pain relievers
- There are significant disparities in the rate of death among demographic subgroups. The highest rates of death are among men, older age groups, NH-Blacks and neighborhoods with high economic hardship.

#### **Future Epidemiology/Data Directions:**

- Further collaboration with city agencies, hospitals, community based organizations, and other health departments.
- Obtain and analyze more detailed data (prescription drug monitoring program data, more detailed circumstances of death data, etc.)
- In depth analysis to understand connection between social determinants of health, economic hardship, structural inequity and opioid overdose deaths.

### Thank you!

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Mark Kiely



#### References

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http://www.dph.illinois.gov/opioids/idphdata