

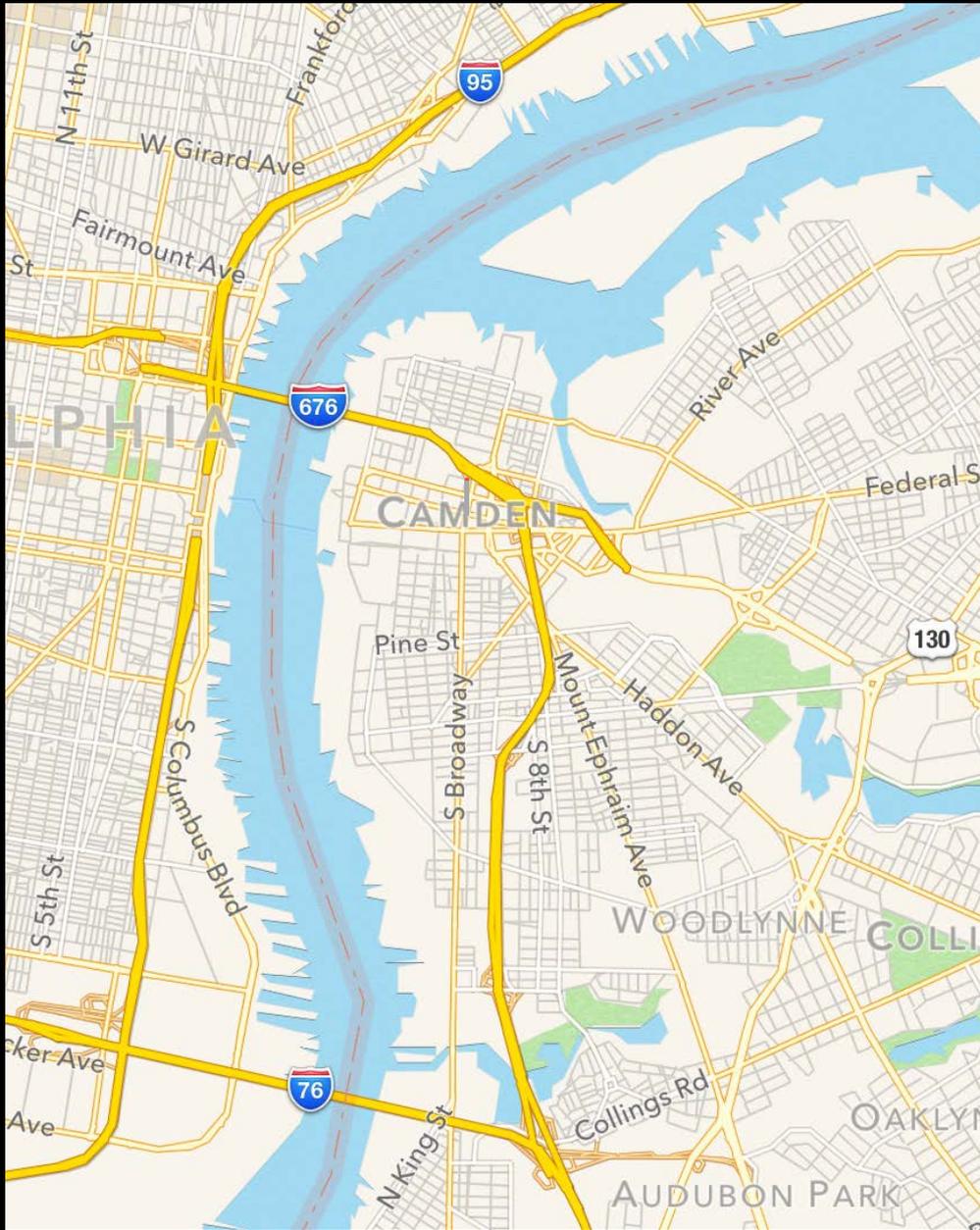
Integrated Data: Unlocking Insights into Vulnerable Populations

A presentation for
Data Driven Justice
Washington DC
October 28, 2015



Camden Coalition
of Healthcare Providers

Dawn Wiest, PhD • Senior Manager • Research & Evaluation



Camden, New Jersey

- Population 77,000
- 40% of persons live below the poverty line (NJ 10%)
- 51% high school graduation rate in 2012; 56% in 2014 (NJ 86% in 2012)
- 12% unemployment rate (NJ 5.6%)

You are cordially invited to the first

Camden City Healthcare Providers' Breakfast



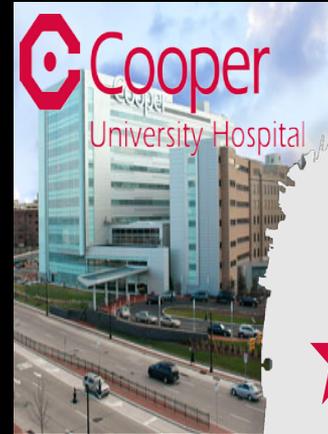
Join fellow clinicians to get acquainted, and to share strategies, resources, and ideas on providing health care to Camden City residents.

Thursday, January 24, 2002
7:30 – 9:00 am

At the Rutgers University Octagon Room,
Camden Campus Center, North Third Street

Sponsored by the Center for Strategic Urban Community Leadership at Rutgers University, Division of Urban Health in the Department of Family Medicine at Cooper Hospital, and the Camden Area Health Education Center

Please RSVP to Daria Chacón at 856-963-2432 x218 by Friday, January 11.



Spatial Analysis of Camden Hospital Costs

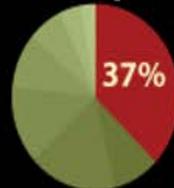


Several buildings (e.g.) annually generate \$1-\$3 million in hospital costs.

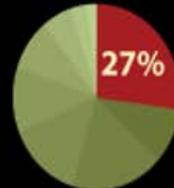
6% of city blocks account for 18% of patients and 37% of receipts.



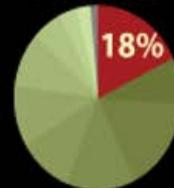
Receipts



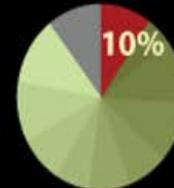
Visits



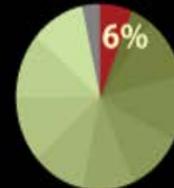
Patients



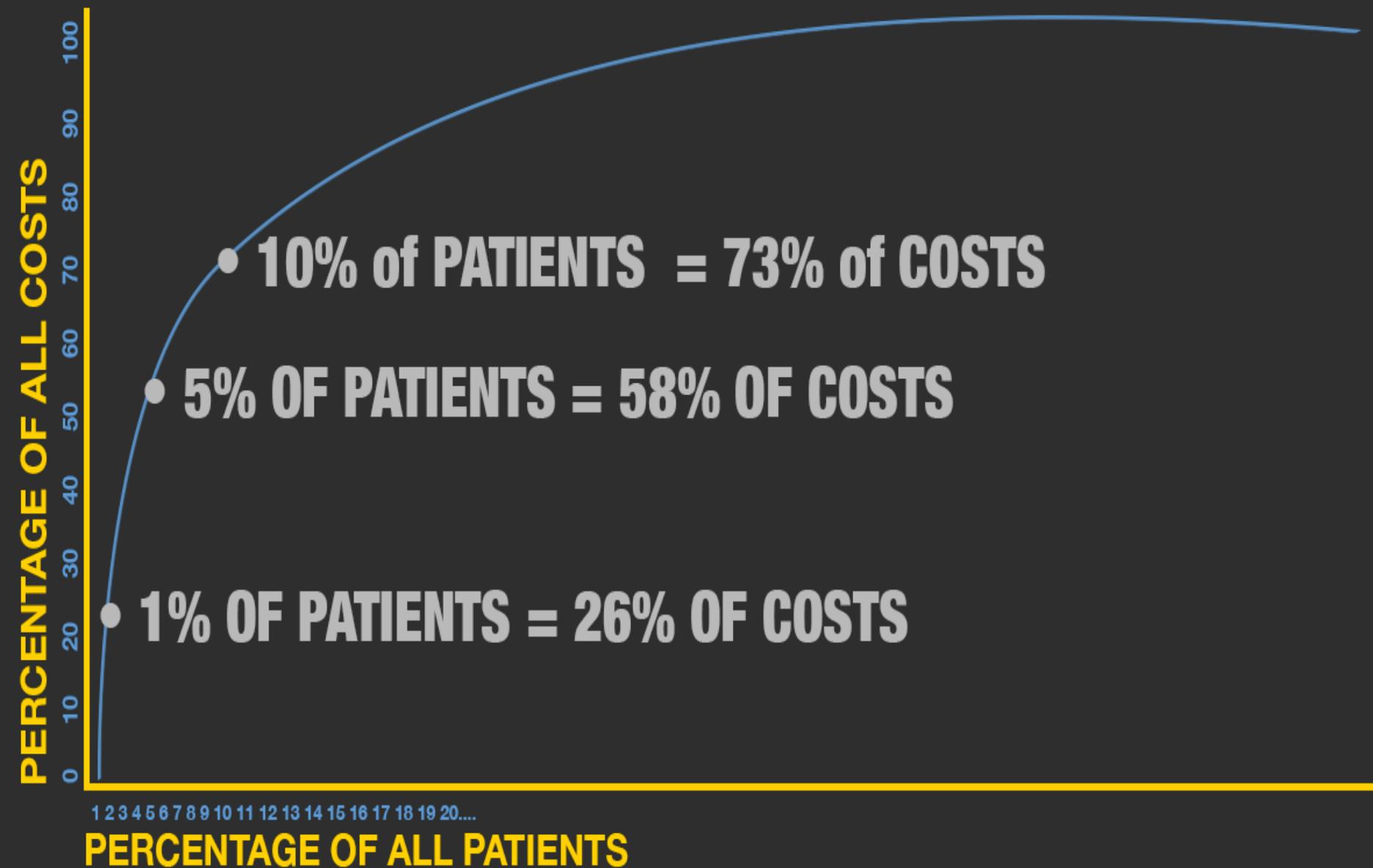
Area



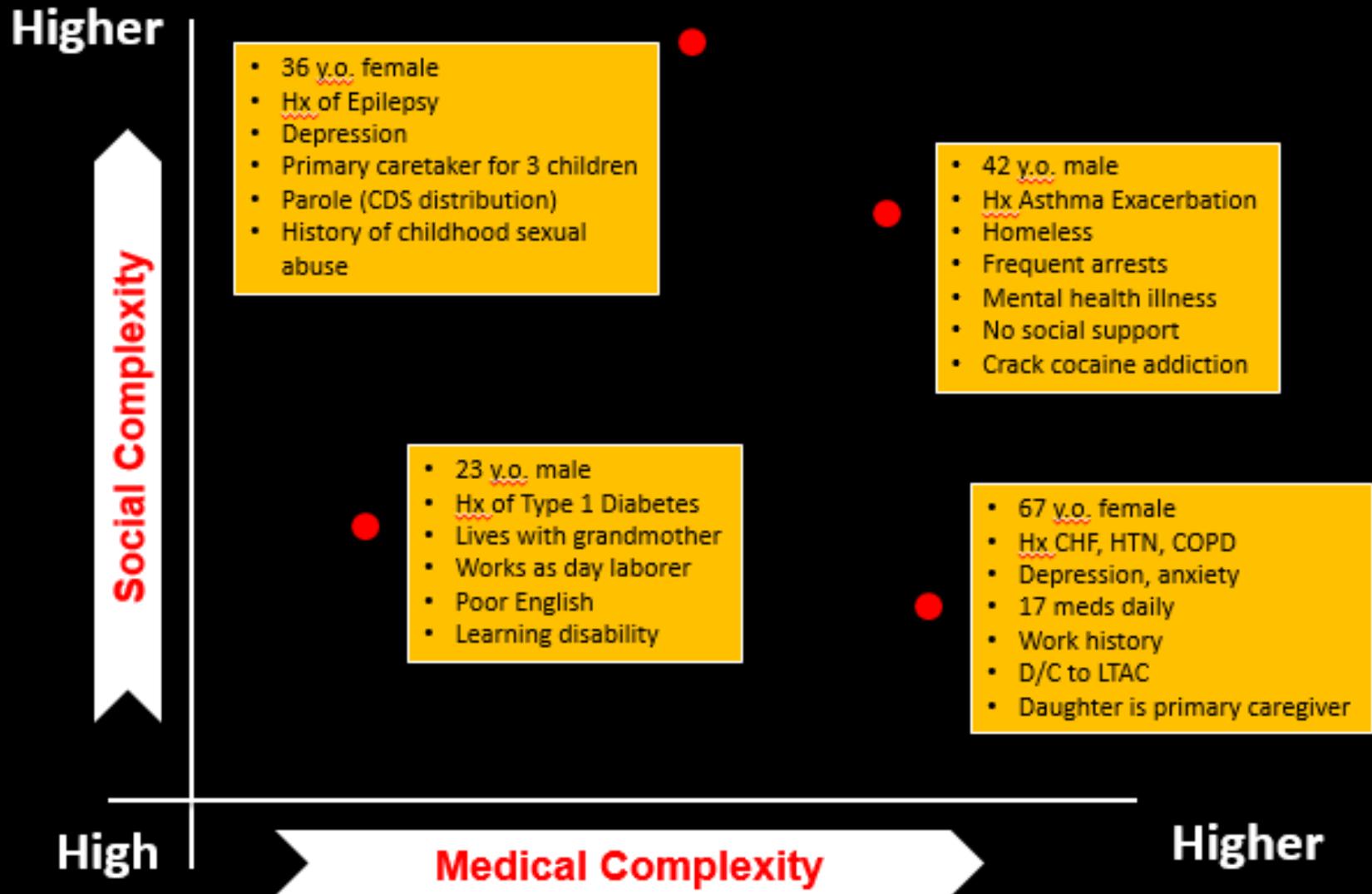
Blocks



Camden Health Data



Outlier patients in the long tail of data



Building Genuine Healing Relationships



“She talked to me as a person, not as a patient”

“They showed me how to bring myself back”

“Just to have them come around and sit and talk... is what I enjoyed... to know that they were interested in me”

Camden ARISE Integrated Data Project



Jeffrey Brenner
Camden Coalition
of Healthcare Providers

J. Scott Thomson
Camden County
Police Department



police
arrest data

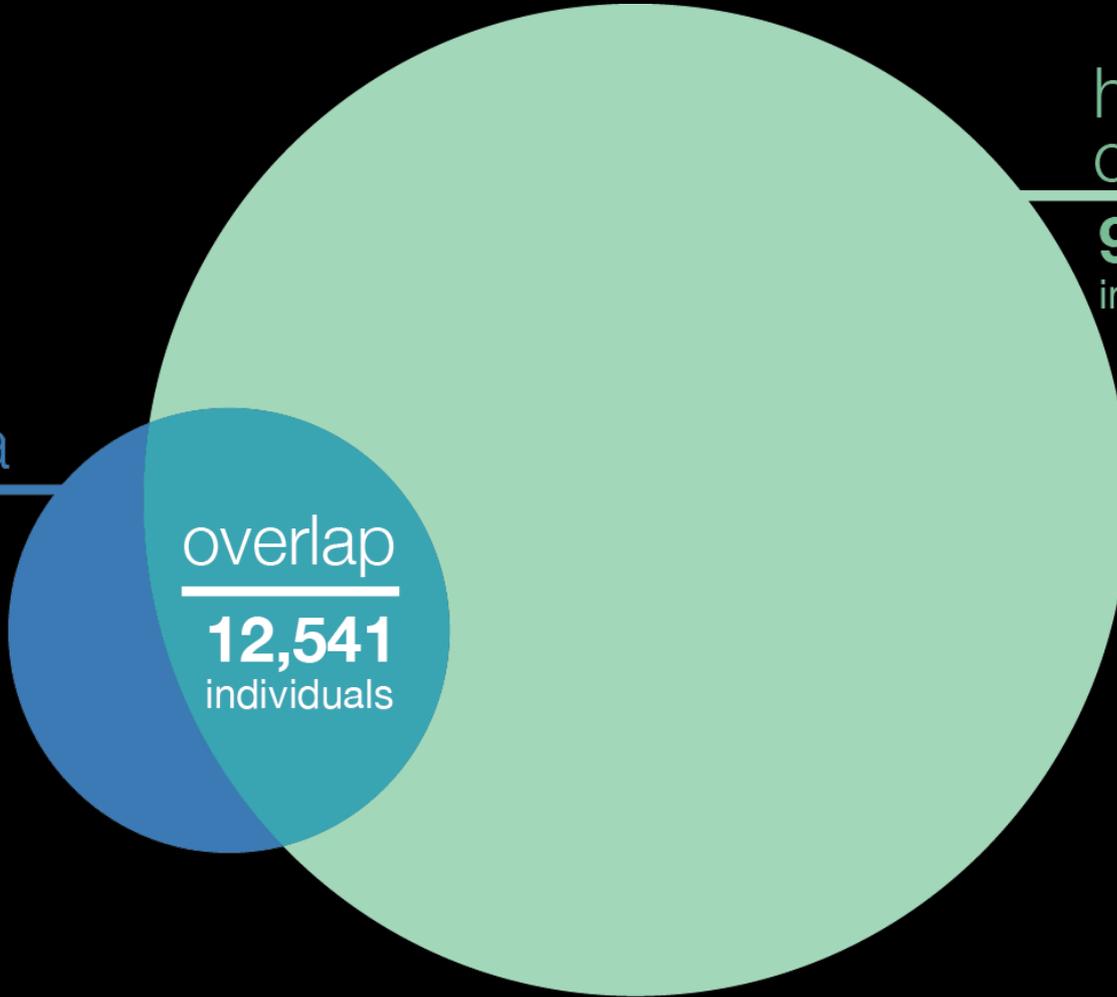
18,755
individuals

hospital
claims data

93,344
individuals

overlap

12,541
individuals



overlap

The diagram consists of three overlapping circles. A large dark teal circle is at the top right. A smaller medium teal circle is at the top left, overlapping the large one. A smaller light teal circle is at the bottom left, overlapping both the medium and large circles. The intersection of the medium and light teal circles is labeled with the number 12,541.

12,541
individuals

67%

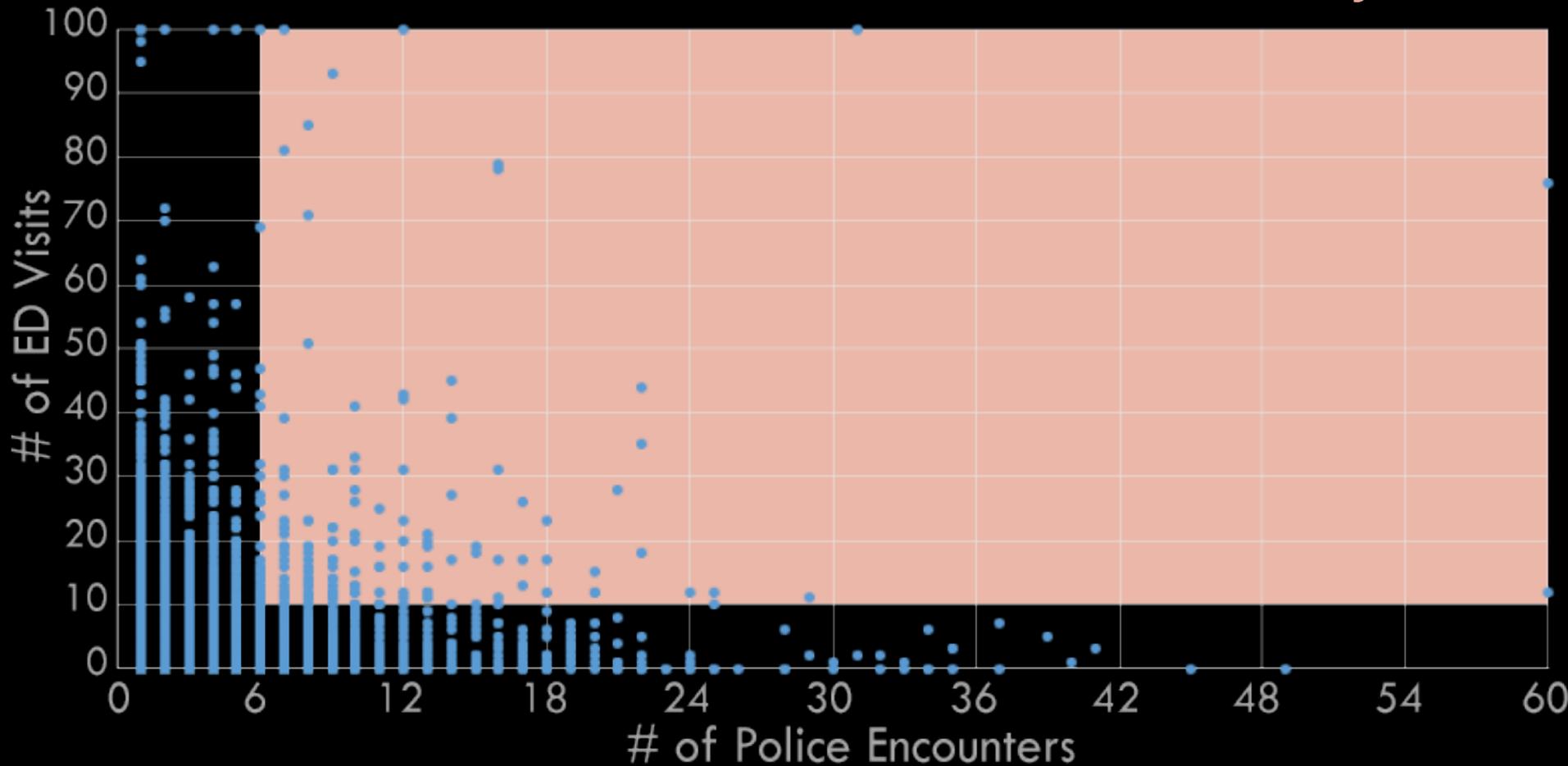
of arrested individuals
show up in the hospital
claims data

13%

of hospitalized individuals
show up in the police arrest data

Dual-System High Utilizers

205 individuals were identified to be dual-system high utilizers (10+ ED visits & 6+ police encounters over five years).



Risk of police encounter

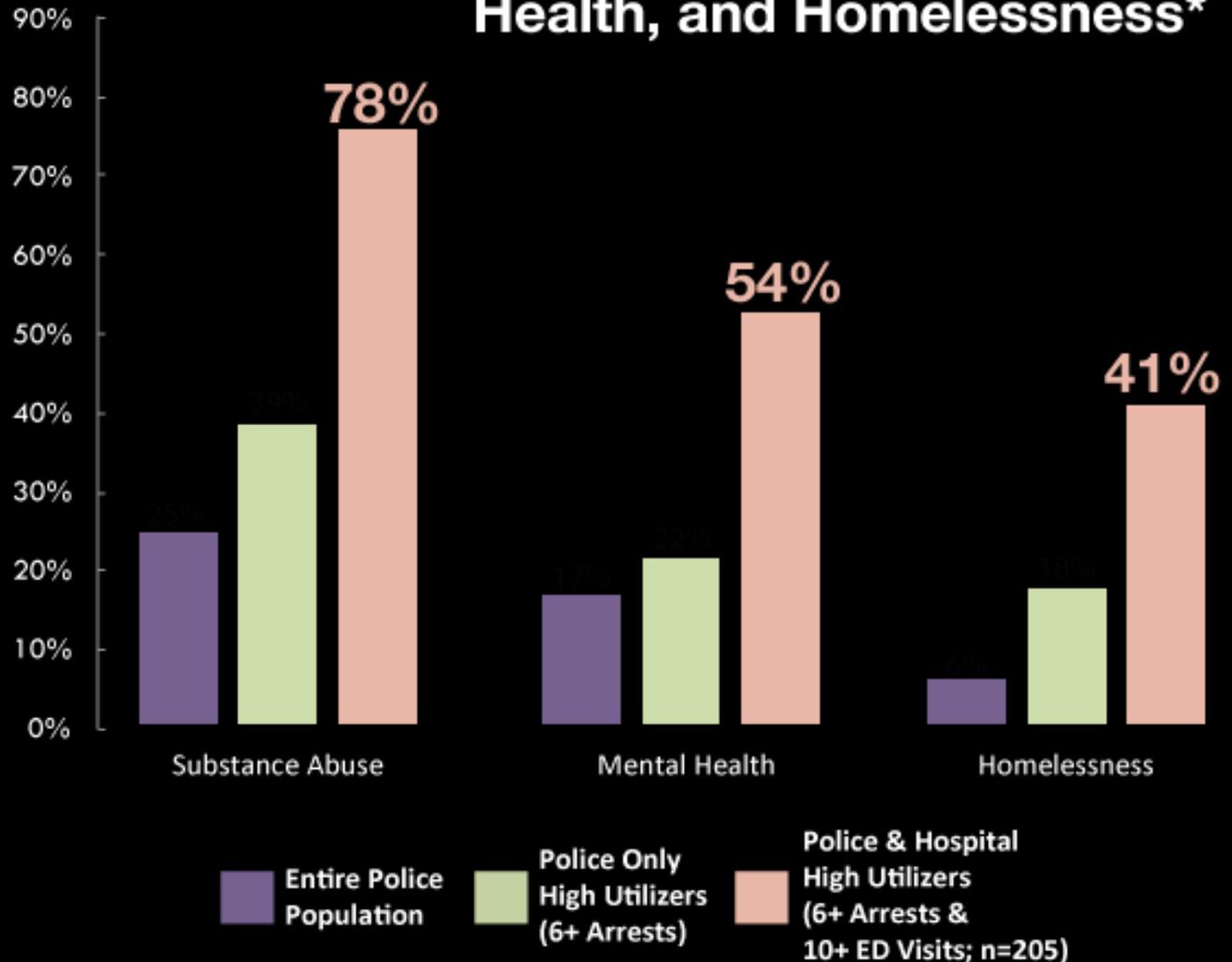
2.7x more likely if you visit the Emergency Department 5 times in a year (3.8x for women).

1.5x more likely if you have a substance abuse related hospital visit (2.0x for women).

1.8x more likely if you visit the hospital with a violence-related diagnosis (2.5x for women).

~60% of Police & Hospital High Utilizers have at least one substance-abuse related hospitalization prior to their first encounter with the police department.

Prevalence of Substance Abuse, Mental Health, and Homelessness*

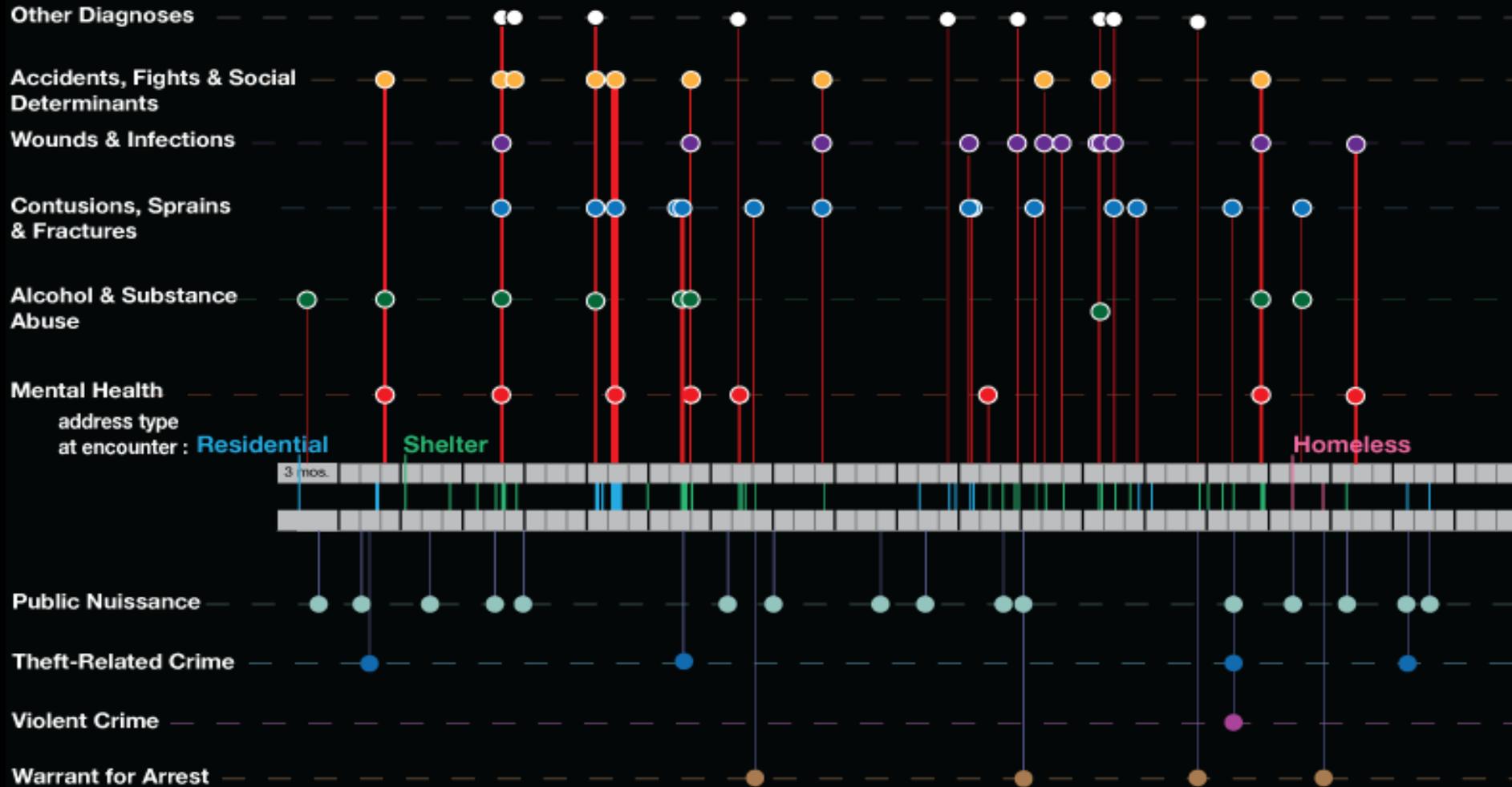


*Substance abuse and mental health were identified through diagnosis codes from hospital encounters. Homelessness was identified through address data from both hospital and police records. All three are likely to be underreported in the data.

Anonymized Individual Case Study

Emergency Department Visit (narrow)

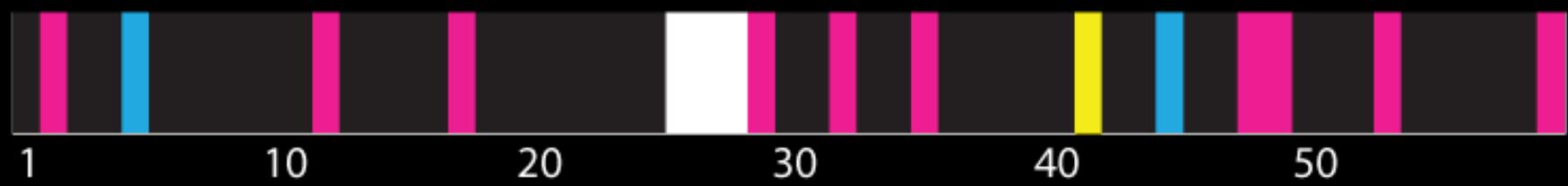
Inpatient Visit (wide)



First event in data



100th event in data

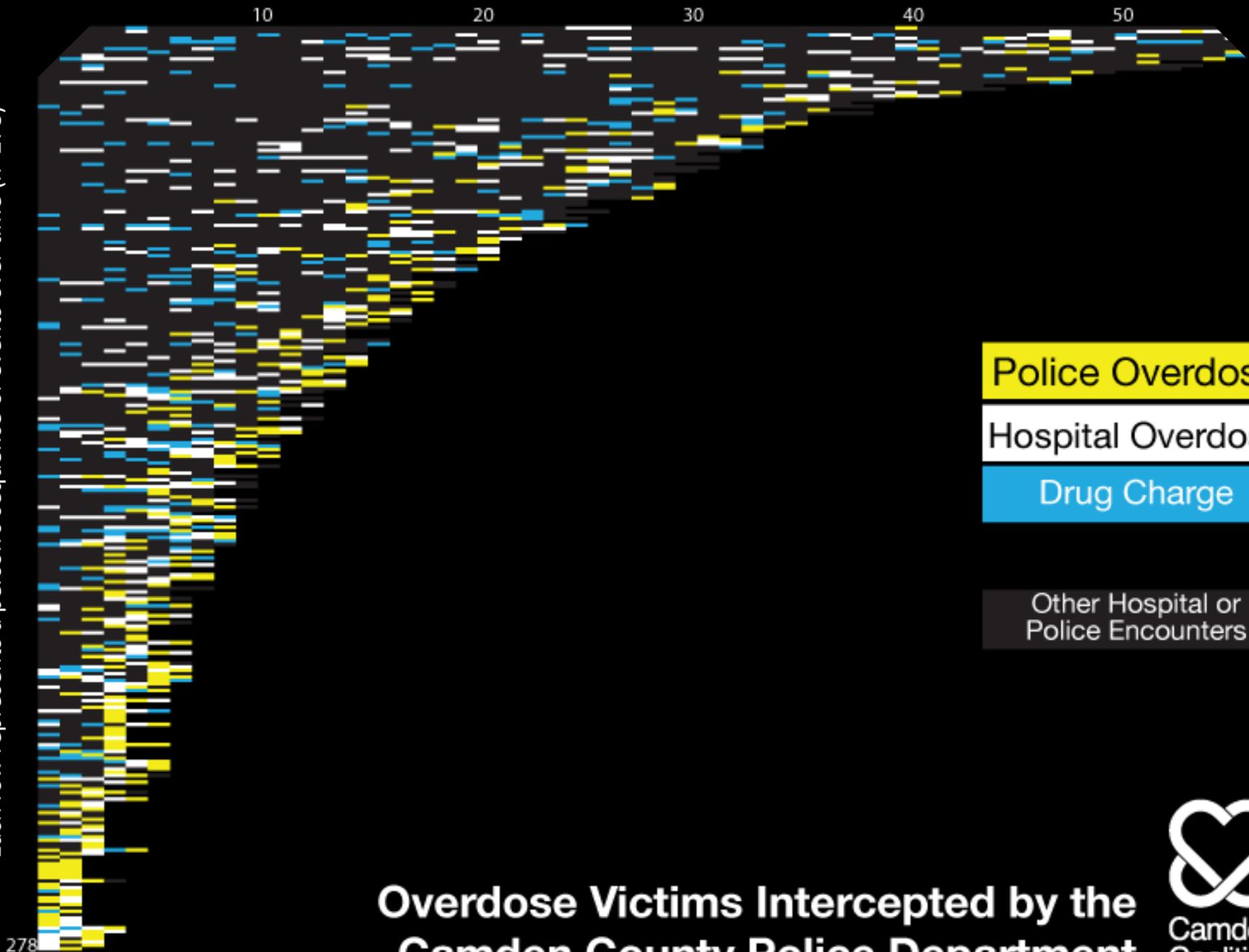


- Police Overdose
- Hospital Overdose
- Drug Charge
- Alcohol / Substance Abuse Hospital Visit
- Other Hospital or Police Encounters

First event in data

100th event in data

Each row represents a person's sequence of events over time (n=278)



Police Overdose

Hospital Overdose

Drug Charge

Other Hospital or
Police Encounters

Overdose Victims Intercepted by the Camden County Police Department



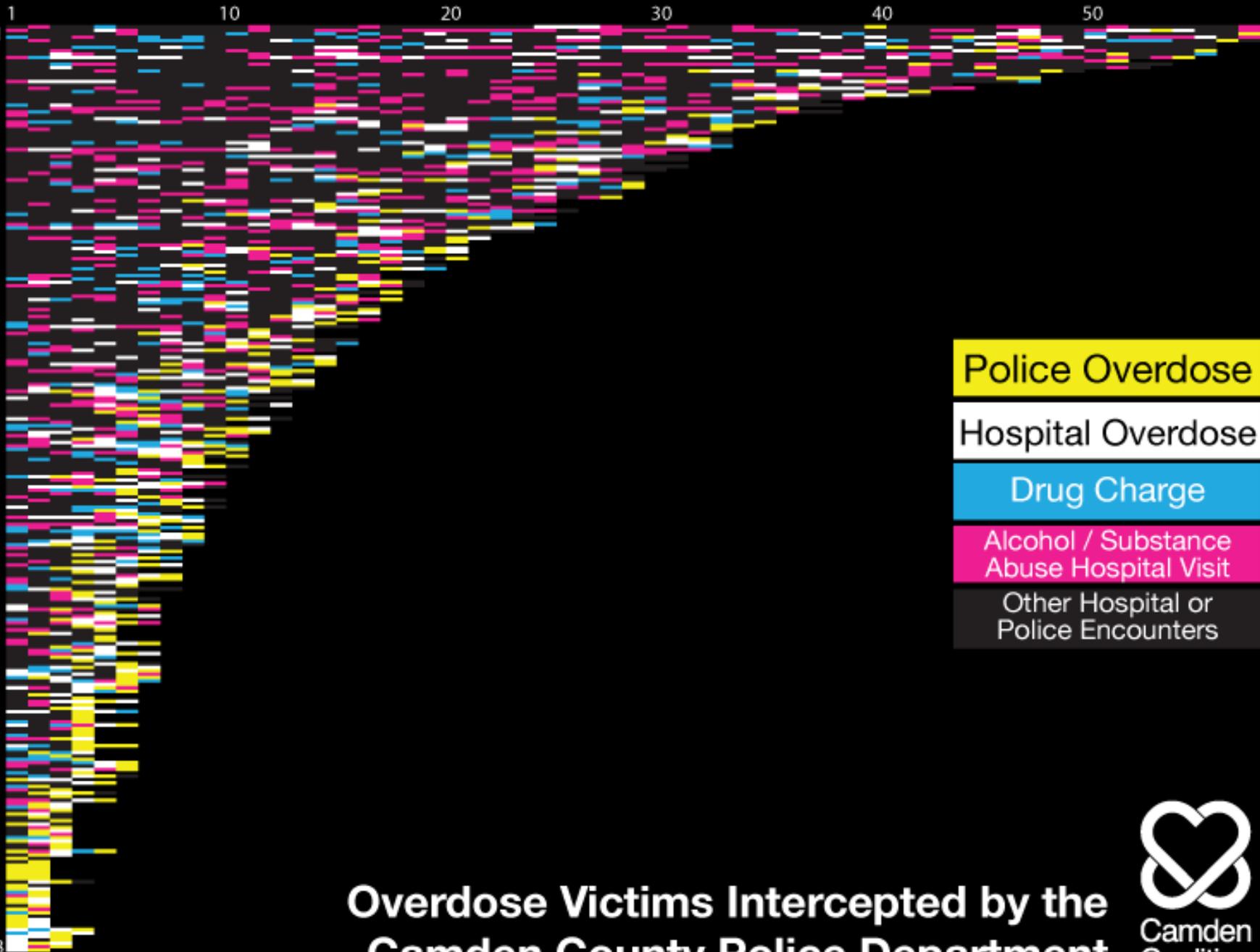
Camden
Coalition

278

First event in data

100th event in data

Each row represents a person's sequence of events over time (n=278)



- Police Overdose
- Hospital Overdose
- Drug Charge
- Alcohol / Substance Abuse Hospital Visit
- Other Hospital or Police Encounters

Overdose Victims Intercepted by the Camden County Police Department



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Additional Datasets, Camden ARISE

1. Southern New Jersey Perinatal Cooperative
2. Camden City School District
3. Camden County and NJ State DOC
4. *Homeless Management Information System*