



APPENDIX:

DATA AND TRENDS IN THE OPIOID CRISIS
JANUARY 30, 2019

Update on Fatal Opioid Overdoses in District

Opioid Summit – January 2019

Roger A. Mitchell Jr, MD

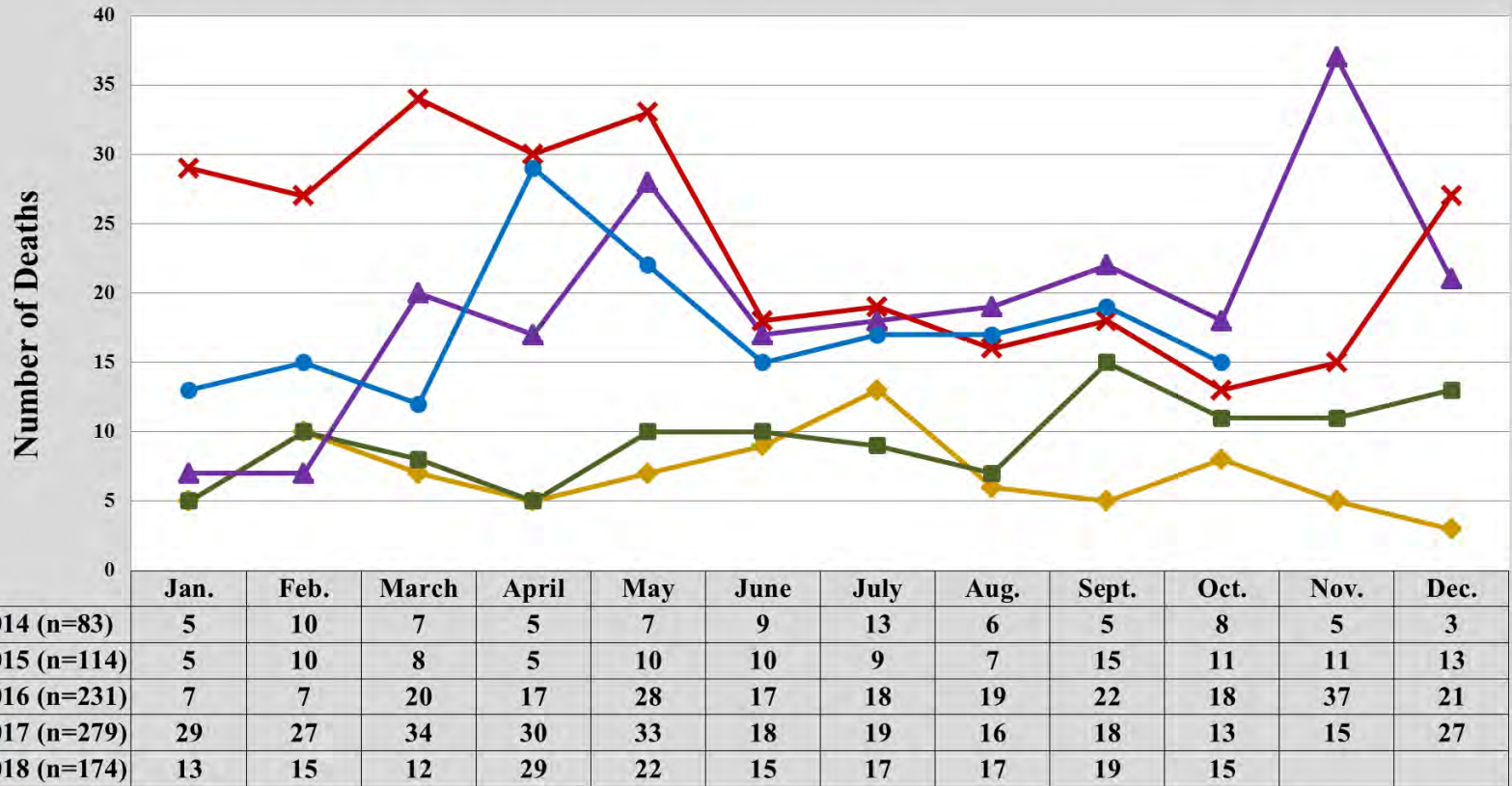
Chief Medical Examiner

District of Columbia
Office of the Chief Medical Examiner



Trends in Opioid Overdoses

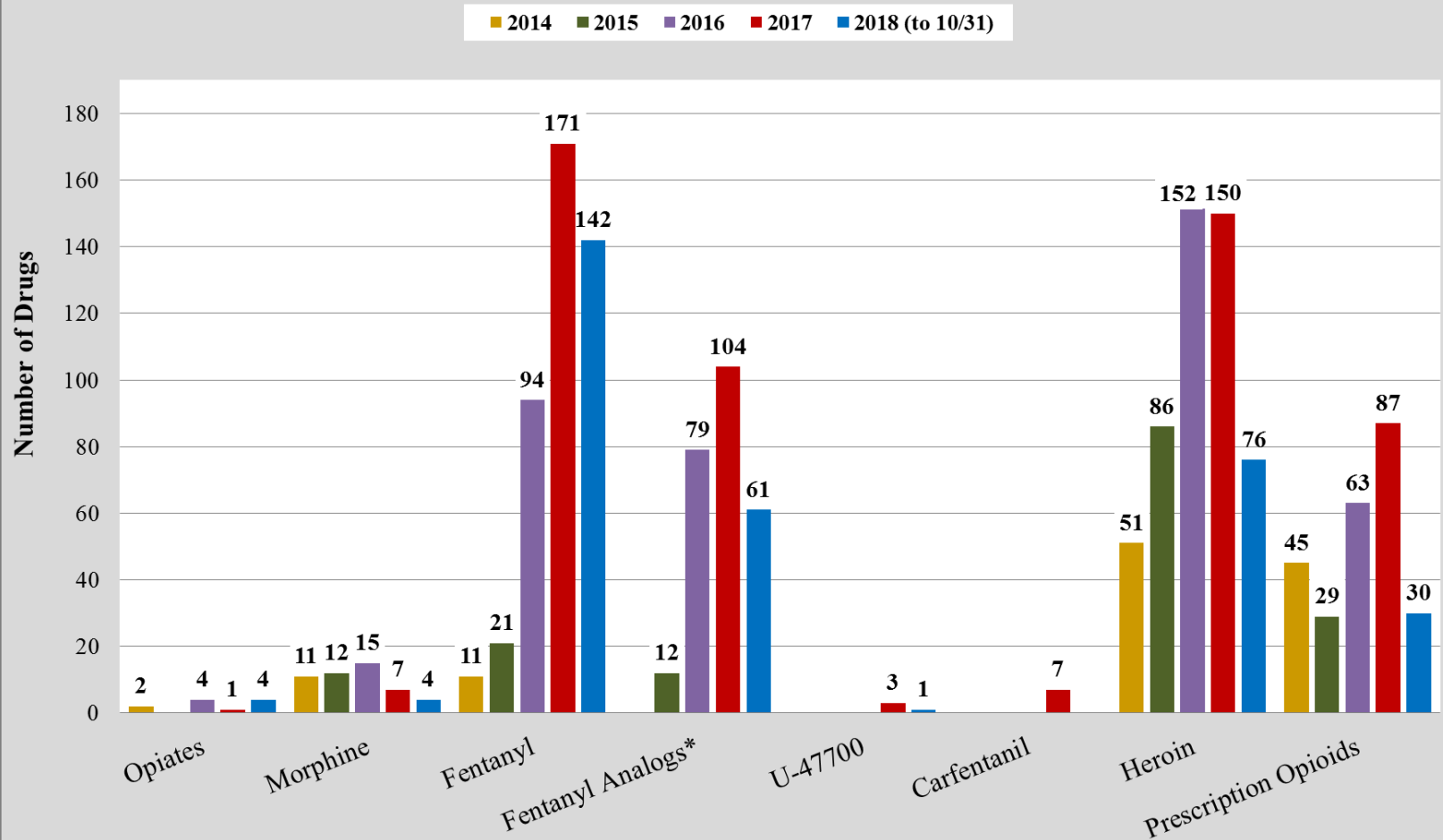
Fig. 1: Number of Drug Overdoses due to Opioid Use by Month and Year (N=881)



- In 2018, 17 fatal opioid overdoses per month on avg.
- In 2017, 23 fatal opioid overdoses per month on avg.

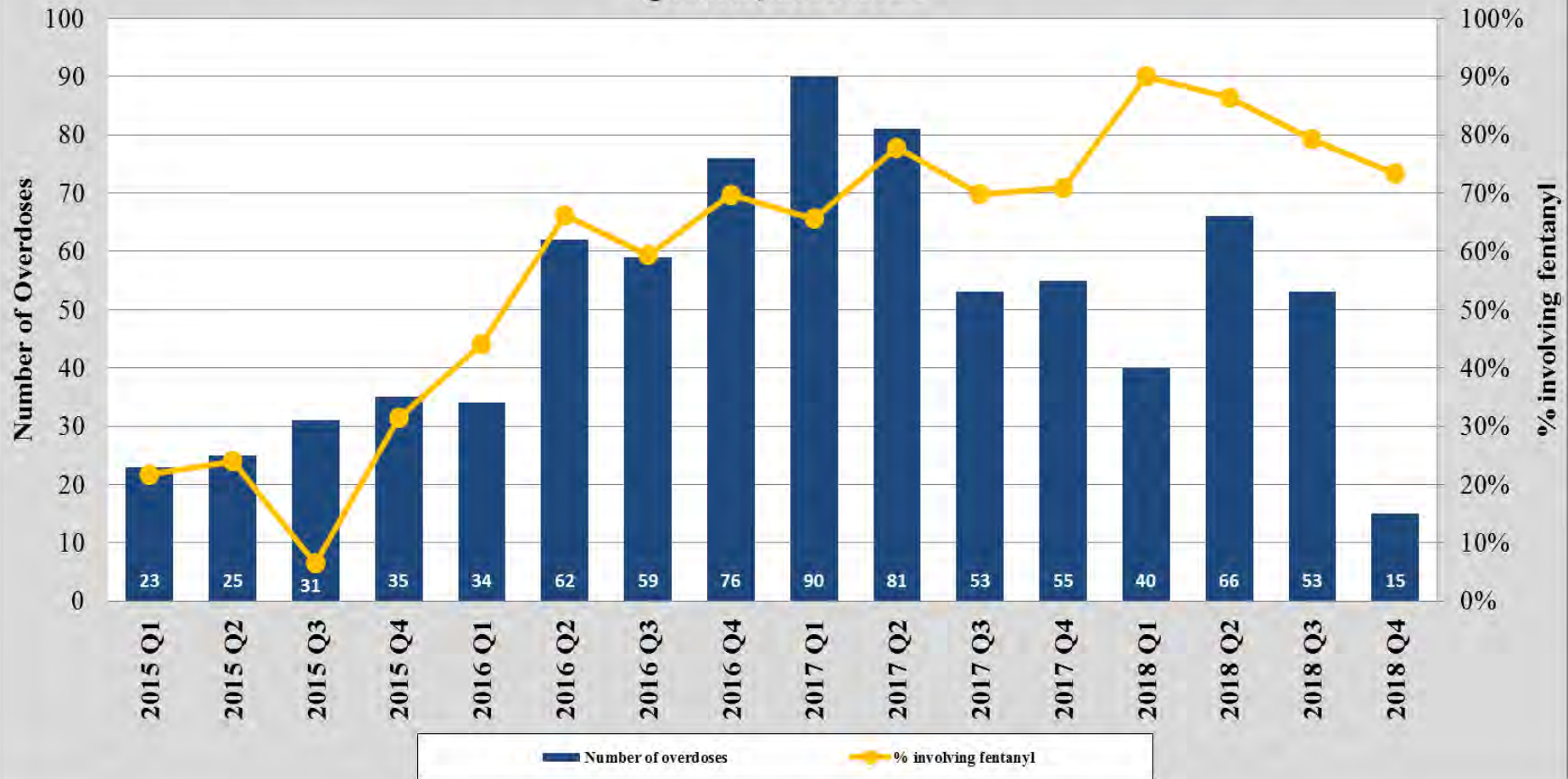
Types of Opioids Contributing to Death

Fig. 2(b): Number of Opioid Drugs Contributing to Drug Overdoses by Year



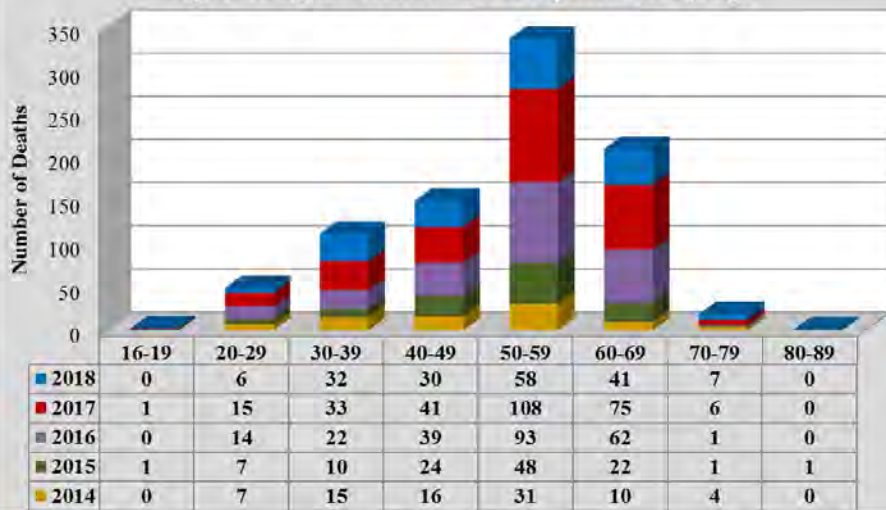
Opioid Overdoses: Fatalities with Fentanyl

Fig. 3 Number of Opioid Overdoses Containing Fentanyl/Fentanyl Analogs by Quarter, 2015-2018



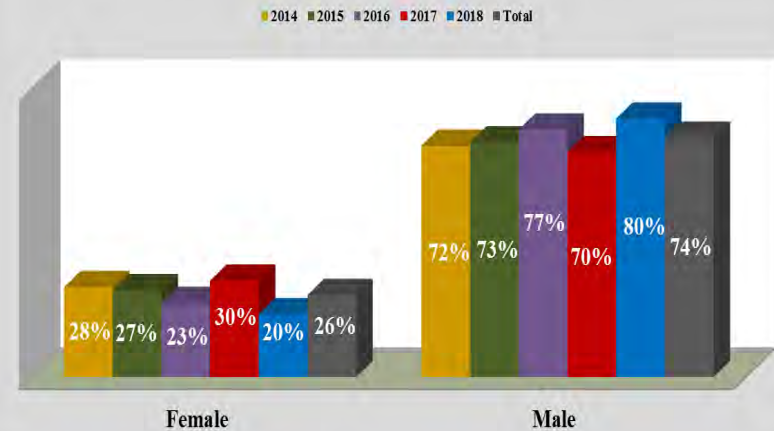
Fatal Opioid Overdoses by Age

Fig. 5: Drug Overdoses due to Opioid Use by Age



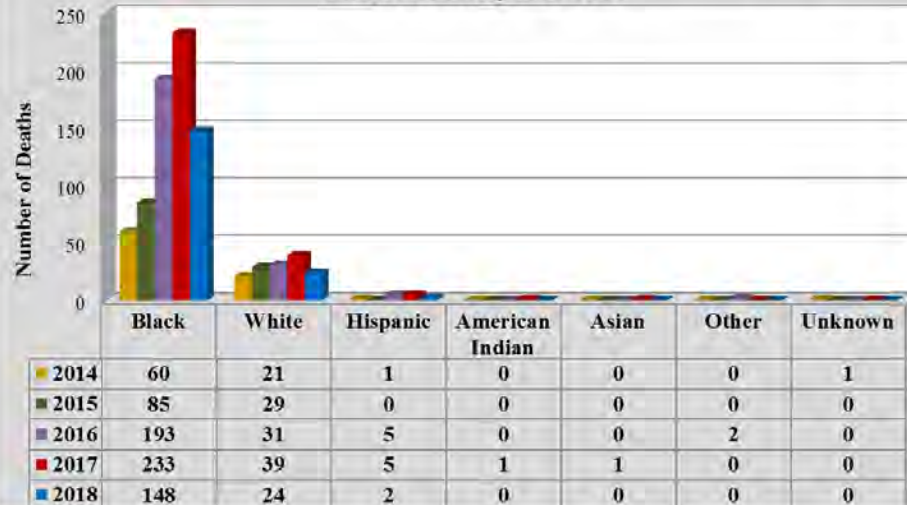
Fatal Opioid Overdoses by Gender

Fig. 7: Percentage of Drug Overdoses due to Opioid Use by Gender and Year



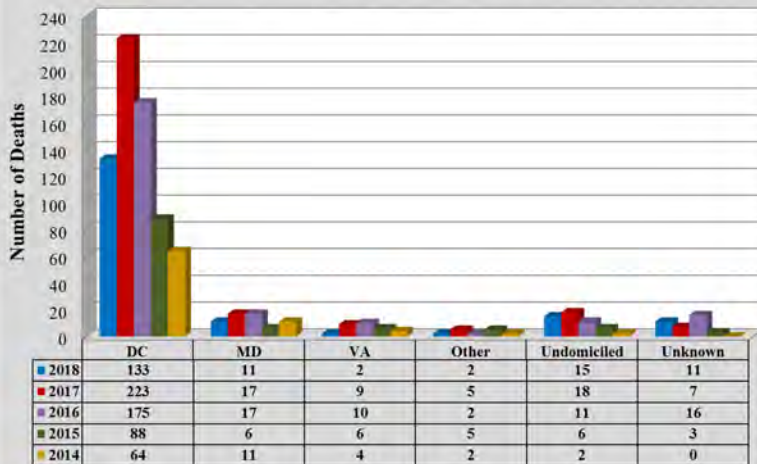
Fatal Opioid Overdoses by Race

Fig. 6: Number of Drug Overdoses due to Opioid Use by Race/Ethnicity and Year



Fatal Opioid Overdoses by Residence

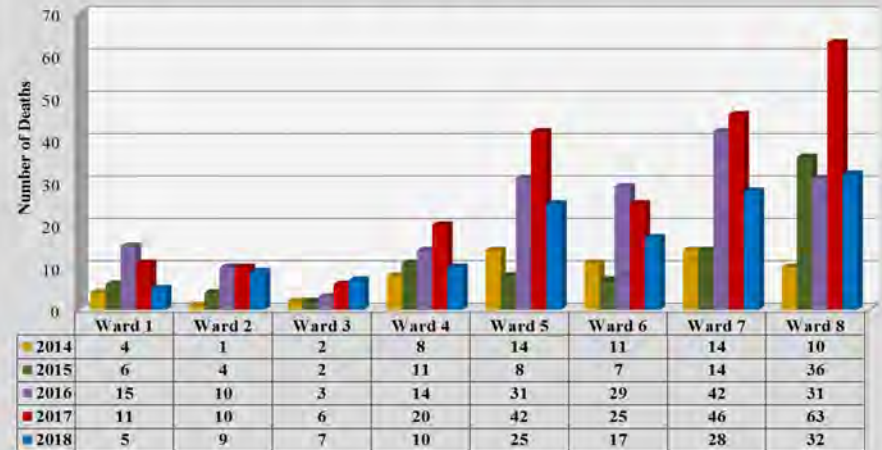
Fig. 8: Number of Drug Overdoses due to Opioid Use by Jurisdiction of Residence and Year



- 76% were DC residents (2018)
- 80% were DC residents (2017)
- 76% were DC Residents (2016)

Fatal Opioid Overdoses by Ward

Fig. 9: Number of Drug Overdoses due to Opioid Use by Ward of Residence and Year



- 64% were from Wards 5,7 & 8 (2018)
- 68% were from Wards 5,7 & 8 (2017)
- 59% were from Wards 5,7 & 8 (2016)



Non-Fatal Overdose Surveillance using DC ESSENCE and FEMS Data

**Presenter: Dr. Chikarlo Leak on behalf of Kenan Zamore, MPH
January 30, 2019**

Customized Queries

Acute Opioid Poisoning

- Opioid poisoning ICD9/10 discharge diagnosis code(s)

Acute/Suspected Acute Opioid Poisoning

- Acute opioid poisoning above, OR
- Non-poisoning opioid ICD 9/10 discharge diagnosis code(s) AND overdose/unresponsiveness/poisoning in chief complaint

Non-acute Opioid Problem

- Non-poisoning opioid ICD 9/10 discharge diagnosis code(s) AND
- No overdose/unresponsiveness/poisoning in chief complaint

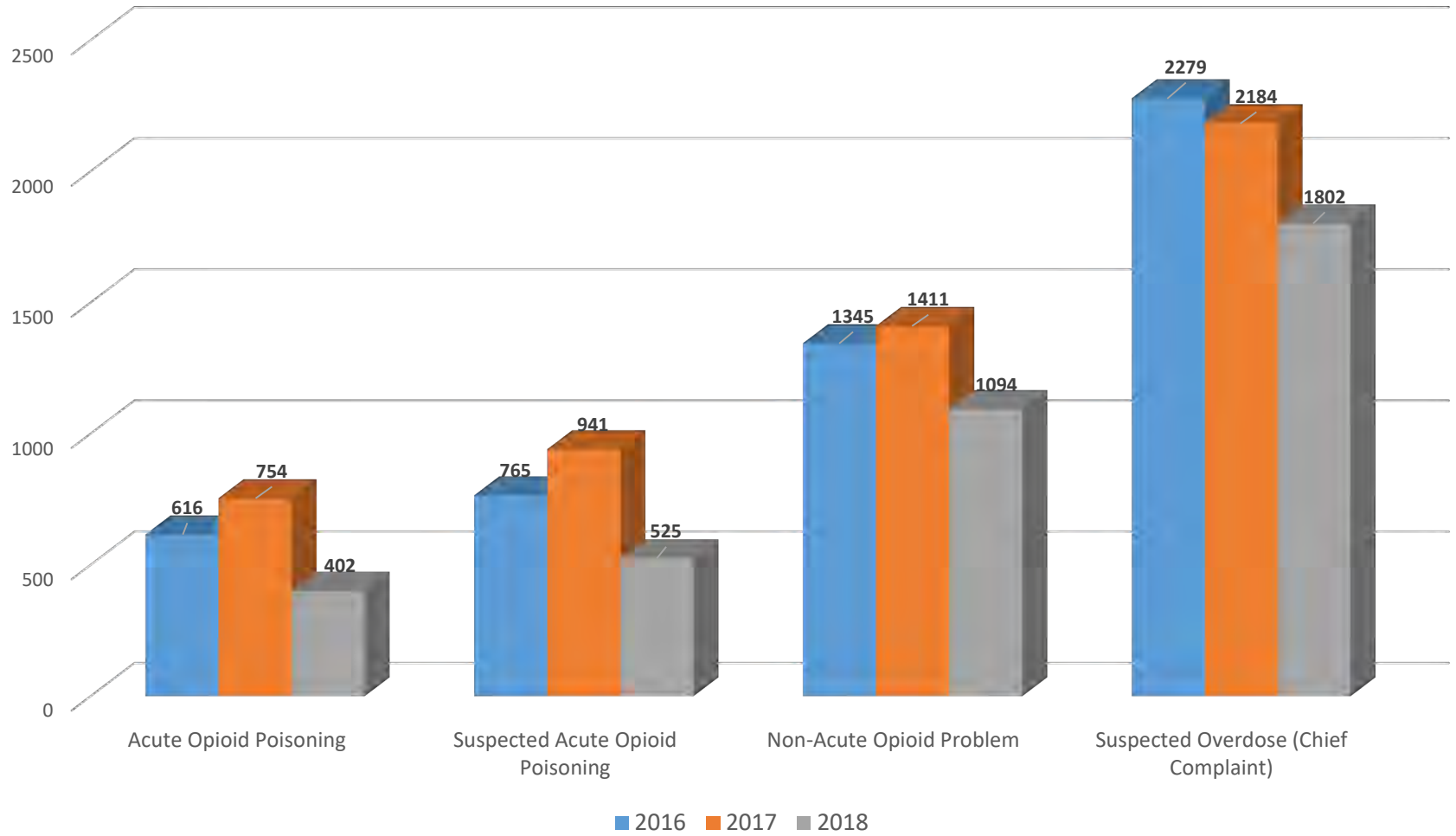
Suspected Overdose-Related Complaint

- Overdose/unresponsiveness/poisoning in chief complaint

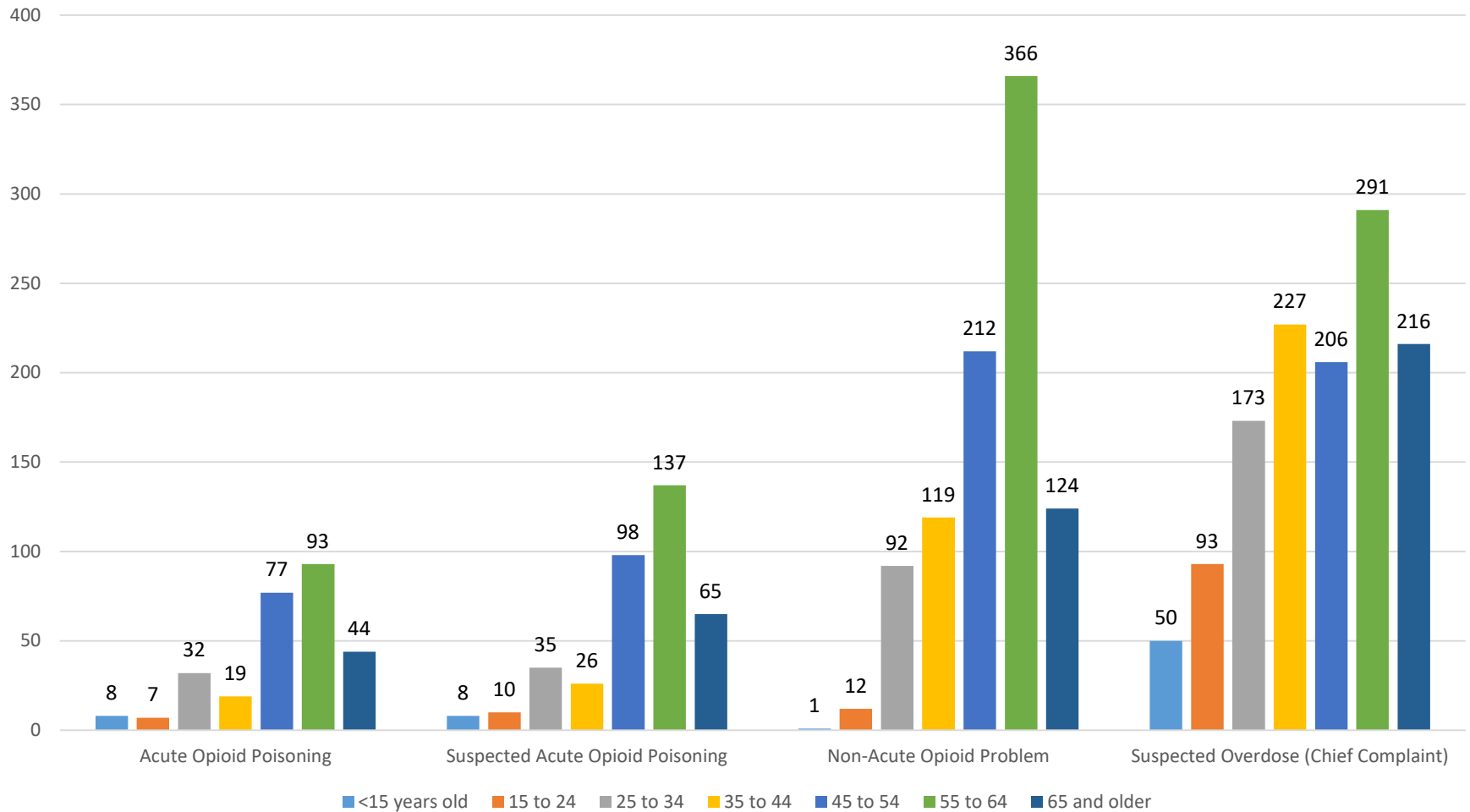
FEMS Data

- Includes X-Y coordinates, better location
- Naloxone administrations with documented improvement
- Based on Impression from First Responder

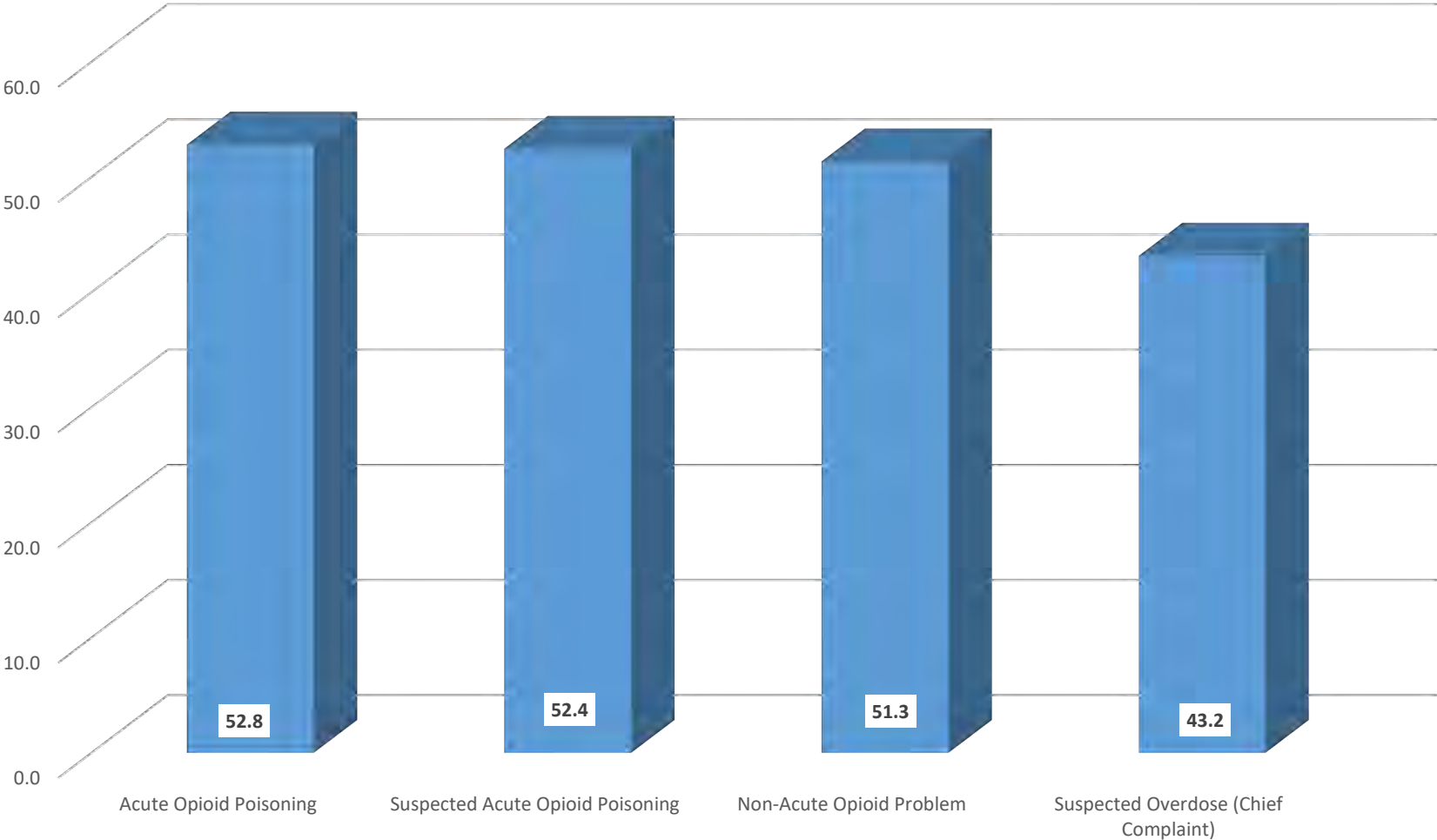
Opioid-Related Hospital Encounters by Year, 2016-2018, n=14,118



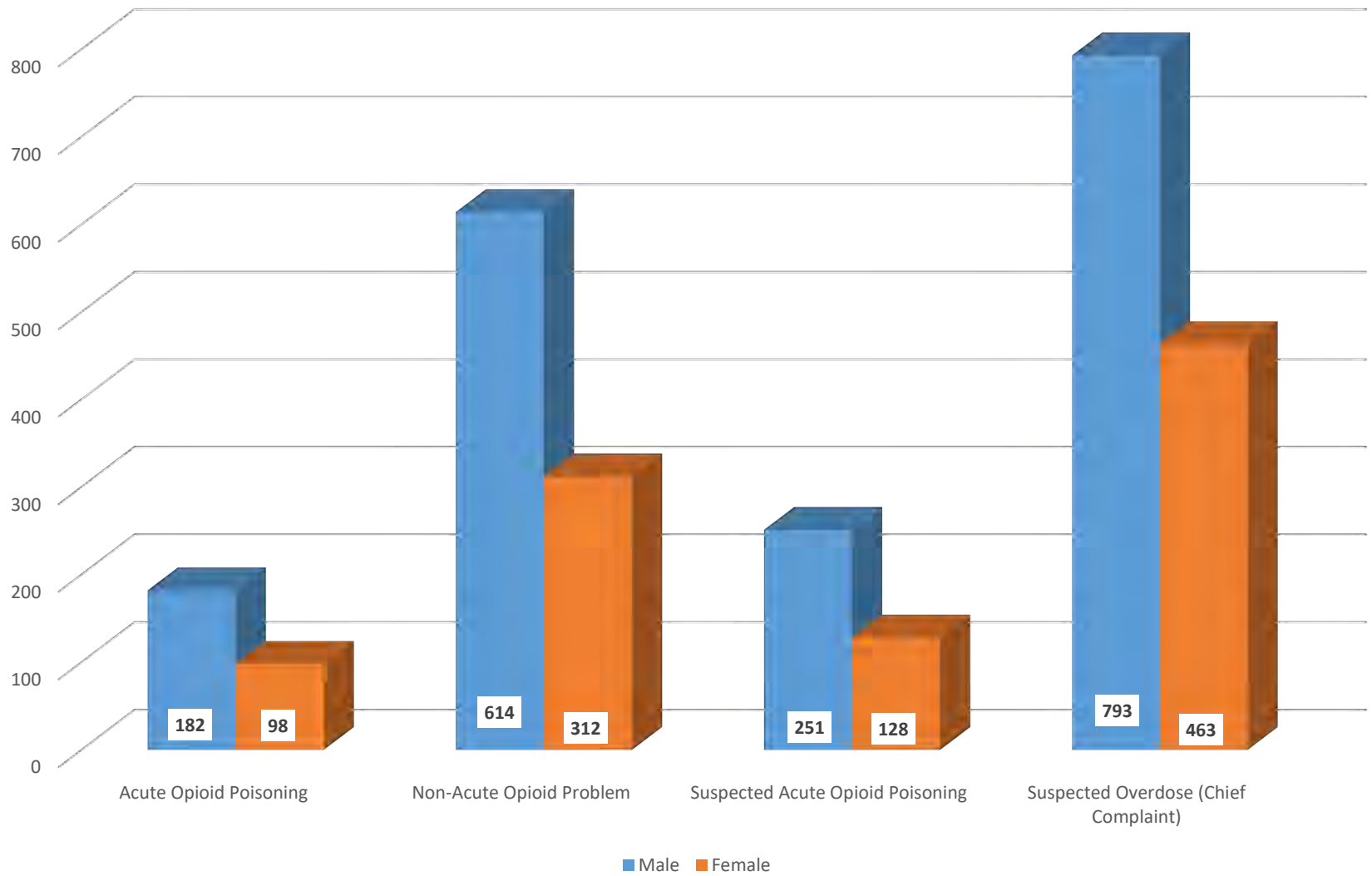
Non-fatal hospital admissions by age group, 2018 (n=2,841)



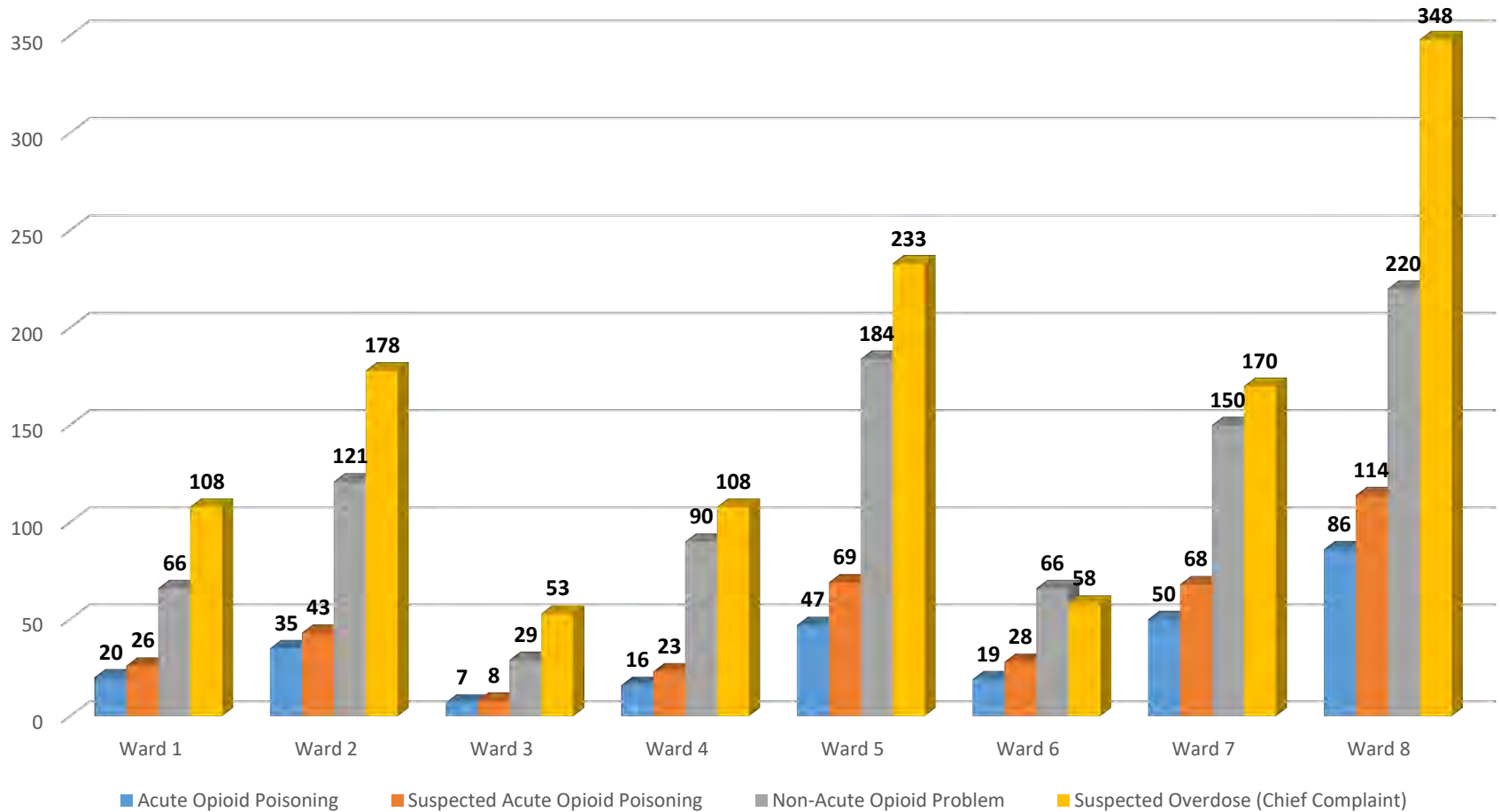
Opioid Related Hospital Encounters, Mean Age 2016-2018



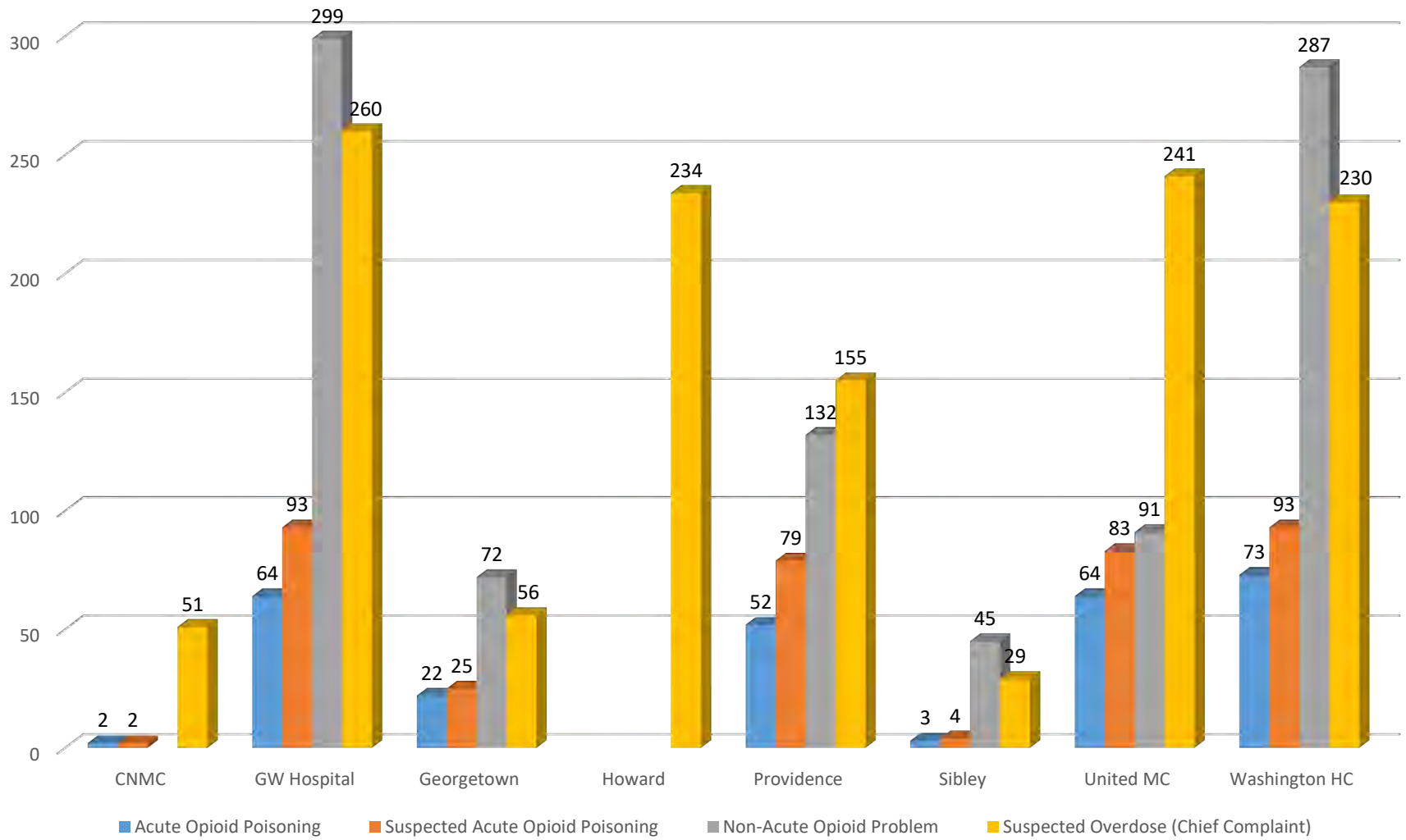
Non-Fatal Opioid-Related Hospital Encounters by Gender, 2018 (n=2,841)



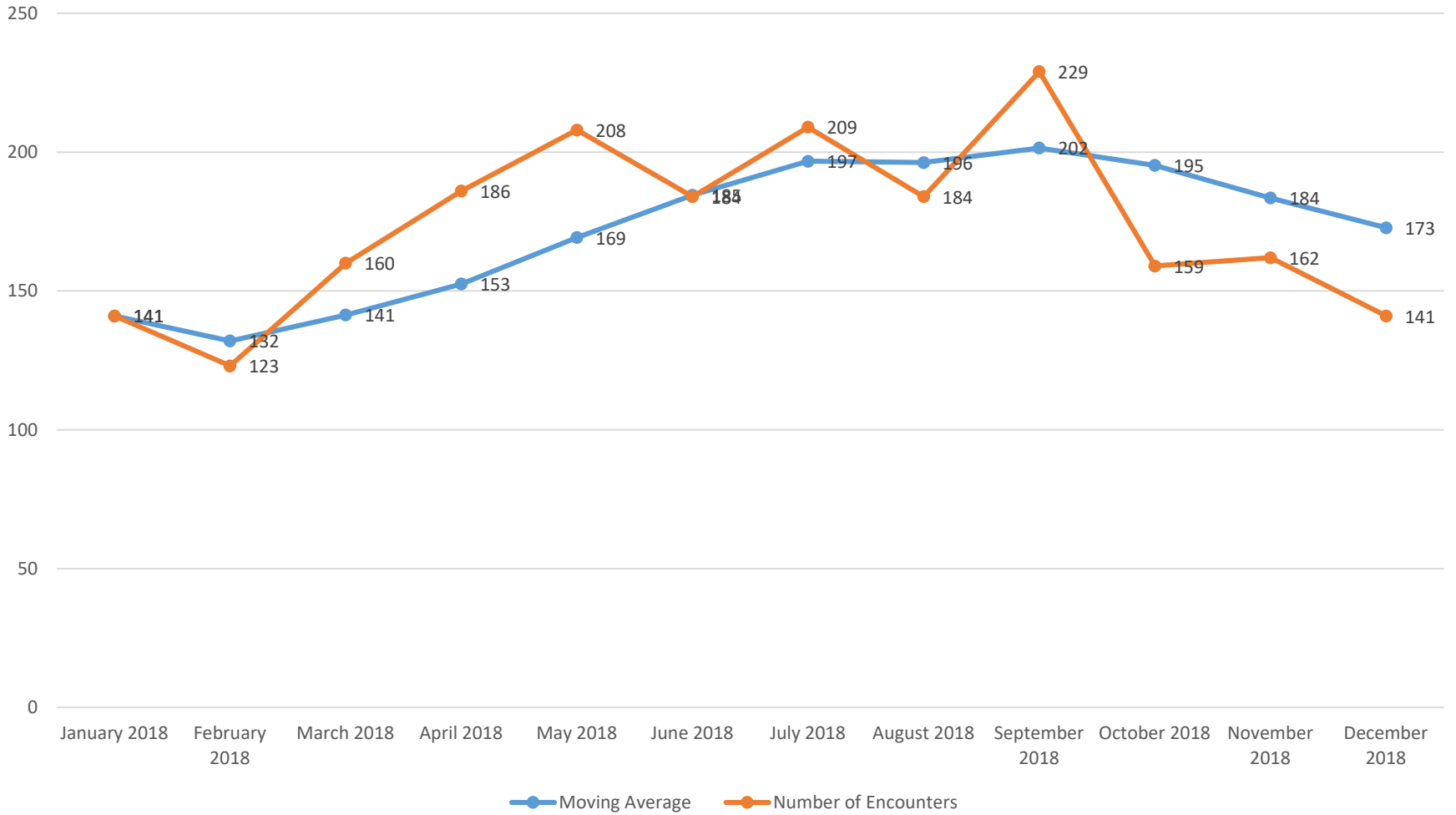
Non-Fatal Opioid-Related Hospital Encounters by Ward, 2018 (n=2,841)



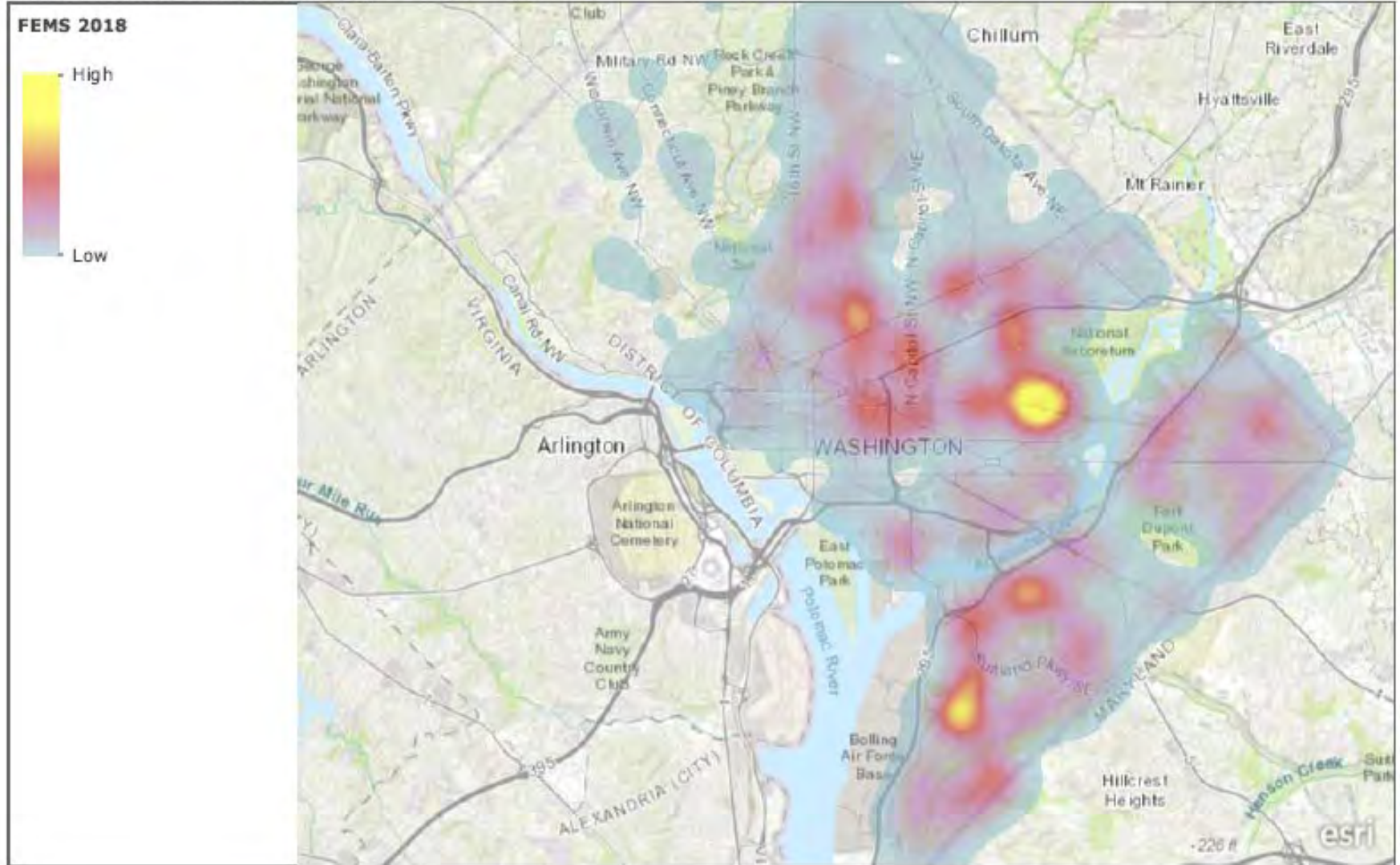
Non-Fatal Opioid-Related Hospital Encounters by Facility, 2018 (n=2,841)



FEMS Transport Encounters, 2018 n=2,086



FEMS Overdose Encounters, 2018 n=2,086



DC | HEALTH

Presenter: Michael Kharfen
January 30, 2019

By the numbers...

3,104

Harm Reduction
Clients Served



3,902

Narcan Kits Distributed



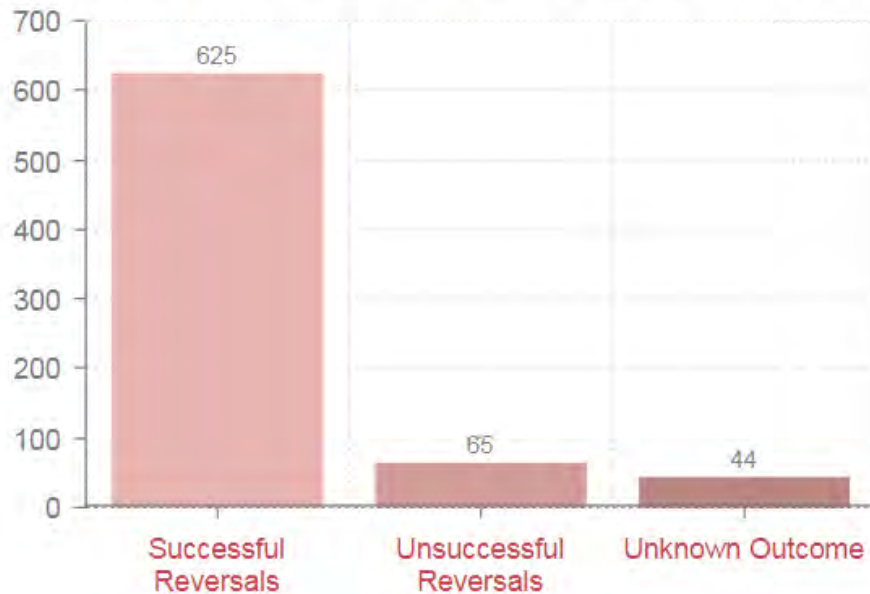
7,804

Doses Distributed



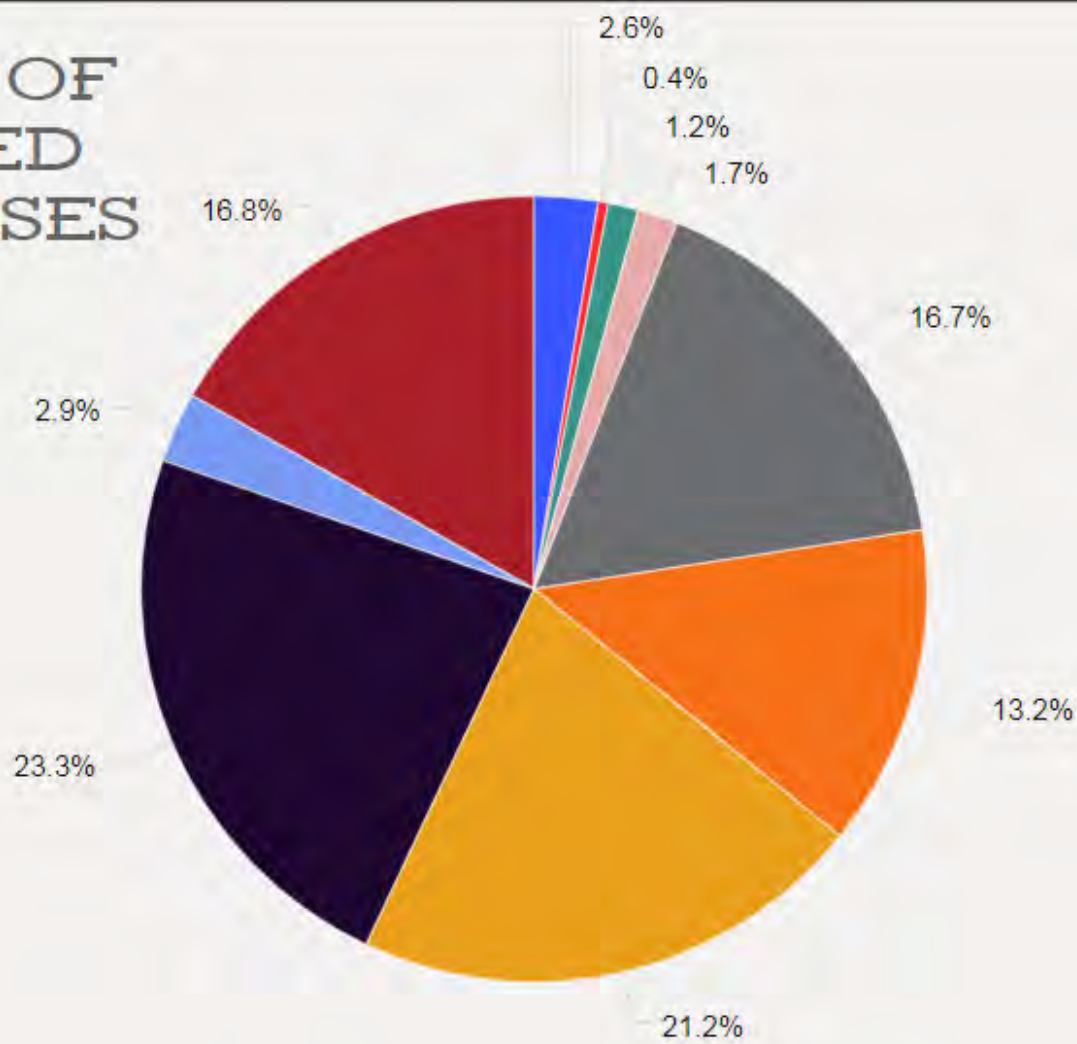
OVERDOSE OUTCOMES

WITH NARCAN ADMINISTRATION (N=734)



Of all reported overdoses where narcan was administered were successfully reversed.

LOCALE OF REPORTED OVERDOSES



● Ward 1	19	● Ward 2	3	● Ward 3	9
● Ward 4	1	● Ward 5	121	● Ward 6	96
● Ward 7	154	● Ward 8	169	● Outside DC	21
● Unknown location	122				

Opioid Overdose Prevention and Naloxone Training

OVER THE PAST YEAR,

172

PERSONS ATTENDED

10

NARCAN TRAININGS

FY 2018 HIGHLIGHTS

- **Naloxone**
 - New Partnership with Department of Human Services
 - 6 homeless shelters – trained staff and provided kits
 - 3 overdoses successfully reversed
- **Medication Assisted Treatment**
 - 603 people started on Suboxone



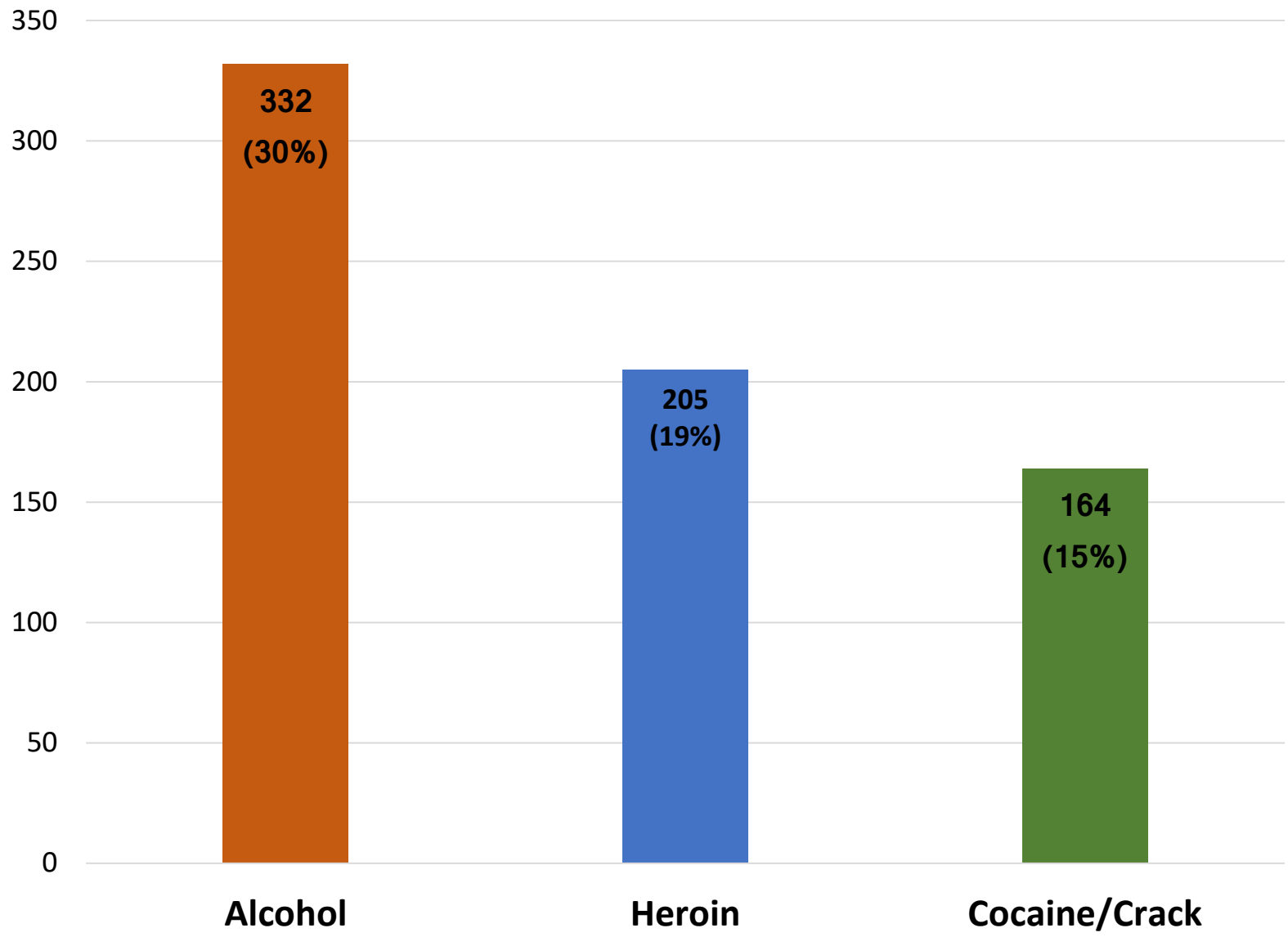
Number and Percentage of Substance Use Intakes with Heroin as Primary Drug – November 2018

The data in this report show the number of intakes at the ARC each month. This report does not show the drug of choice for clients who were receiving treatment but had intakes prior to the dates in this report. Medication Assisted Treatment (MAT) clients often receive treatment long-term, so their intakes precede the data in this report.

FY18	Total Intakes	Primary Drug as Heroin	% Primary Drug as Heroin	FY19	Total Intakes	Primary Drug as Heroin	% Primary Drug as Heroin
Oct-17	456	77	16.89%	Oct-18	446	88	19.73%
Nov-17	400	76	19.00%	Nov-18	366	71	19.40%
Dec-17	369	74	20.05%	Dec-18	334	51	15.27%
Jan-18	434	68	15.67%	Jan-19			
Feb-18	386	66	17.10%	Feb-19			
Mar-18	438	74	16.89%	Mar-19			
Apr-18	445	81	18.20%	Apr-19			
May-18	408	70	17.16%	May-19			
Jun-18	381	71	18.64%	Jun-19			
Jul-18	392	67	17.09%	Jul-19			
Aug-18	444	70	15.77%	Aug-19			
Sep-18	408	83	20.34%	Sep-19			
Total Intakes	4,961	877	17.68%	Total Intakes	1,146	210	18.32%
Unduplicated Clients	3,968	722	18.20%	Unduplicated Clients	1,105	205	18.55%



Top 3 Primary Drugs Used FY19 YTD





DISTRICT OF COLUMBIA

DFS

**DEPARTMENT OF
FORENSIC SCIENCES**

Forensic Science Laboratory | Public Health Laboratory | Crime Scene Sciences

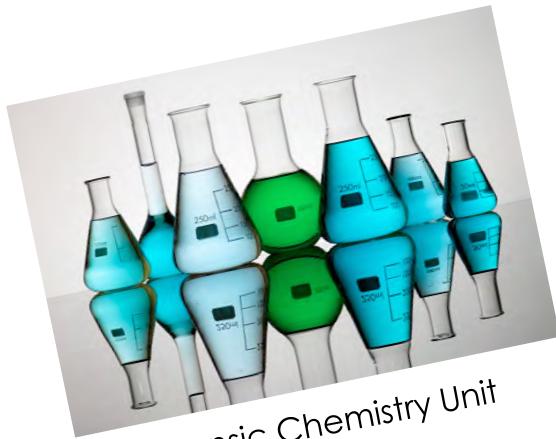
WHAT OPIOIDS ARE ON THE STREETS?

Opioid Summit - January 30, 2019

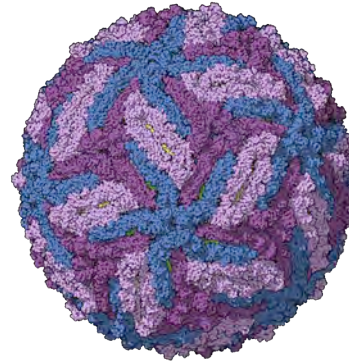
PUBLIC HEALTH LABORATORY



Microbiology Unit



Forensic Chemistry Unit



Immunology & Virology Unit



Tier 1 BT Lab and Tier 2 CT Lab



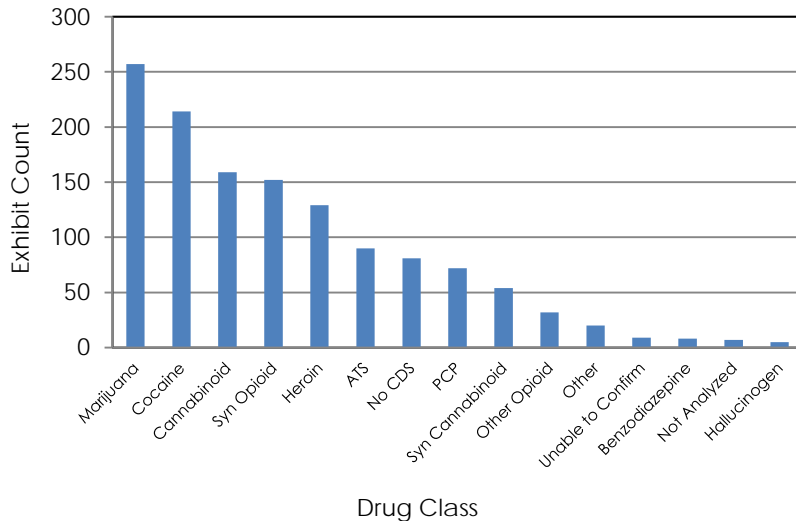
Accessioning Unit

DFS / FCU METRICS

Analyzed **1043** exhibits for USAO/NSID/OCME/DOC

- o Surveillance Samples = 146
- o Criminal investigations = 909

FCU Reports for FY 2018/2019



SURVEILLANCE / NON-COURTBOUND CASES

Customer	Exhibits
District (MPD/NSID Buys)	27
District (OCME Syringes)	27
District (DOC / Seizures)	62
"First ten" Monthly Surveillance	30
Grand Total	146

CASES TRADITIONALLY DONE BY DEA FOR USAO/OAG

Customer	Exhibits
Superior Court - FMCTS	459
Superior Court - MISD	371
District Court - VCNT	48
Superior Court - SO/DV	5
District (OAG)	23
Federal (FBI)	3
Grand Total	909



DFS OPIOID SURVEILLANCE PROGRAM

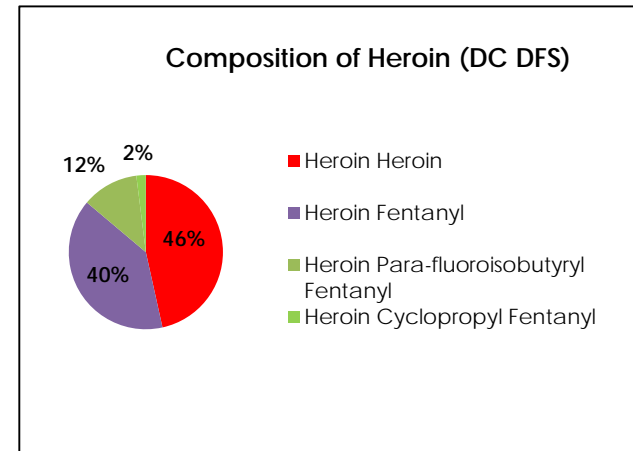
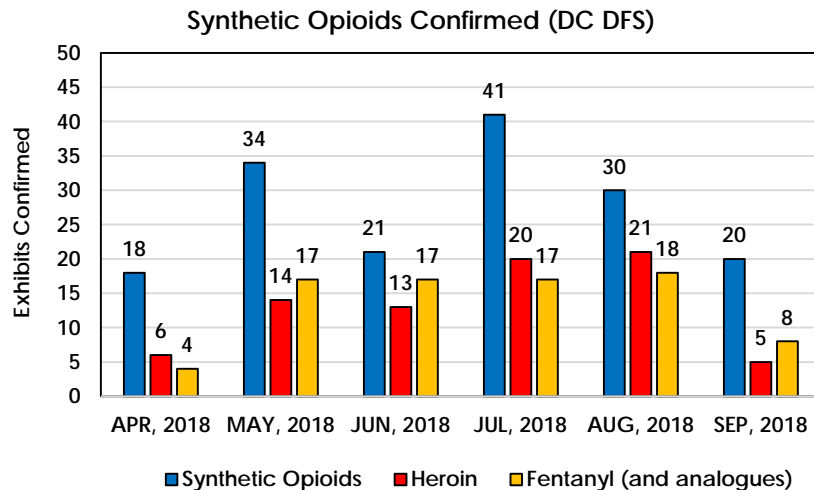
DFS & DC Health, received **\$1,070,310** CDC Grant (*Cooperative Agreement for Emergency Response: Public Health Crisis Response 2018 Opioid Overdose Crisis Cooperative Agreement Supplemental- aka **Opioid CoAg***)

- Purpose: To determine the types, adulterants, and potencies of narcotics collected within DC in order to determine the “narcotic landscape”.
- Funding:
 - Three (3) contract chemists
 - Reagents/laboratory supplies
 - Purchase and installation of high throughput analytical equipment
 - Upgrade facility to handle new equipment
- Deliverables:
 - Discoveries of new drugs in District:
 - Monthly surveillance reporting



SURVEILLANCE

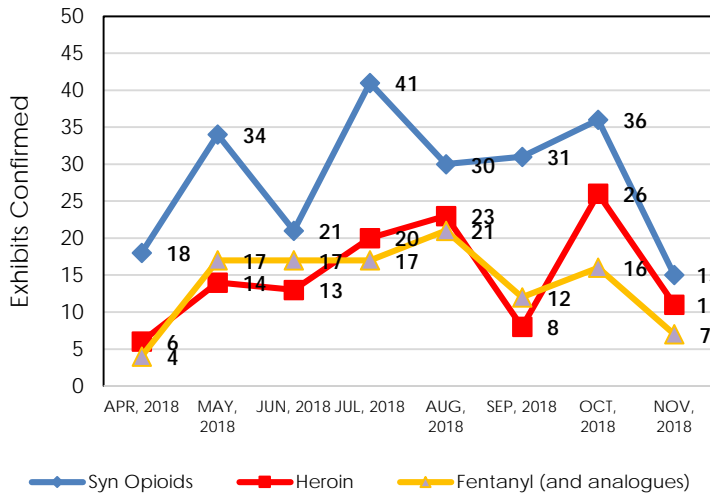
- **Funding** for Opioid Surveillance Lab (aka Opioid CoAg)
- Discoveries of new drugs in District:
- Monthly surveillance reporting



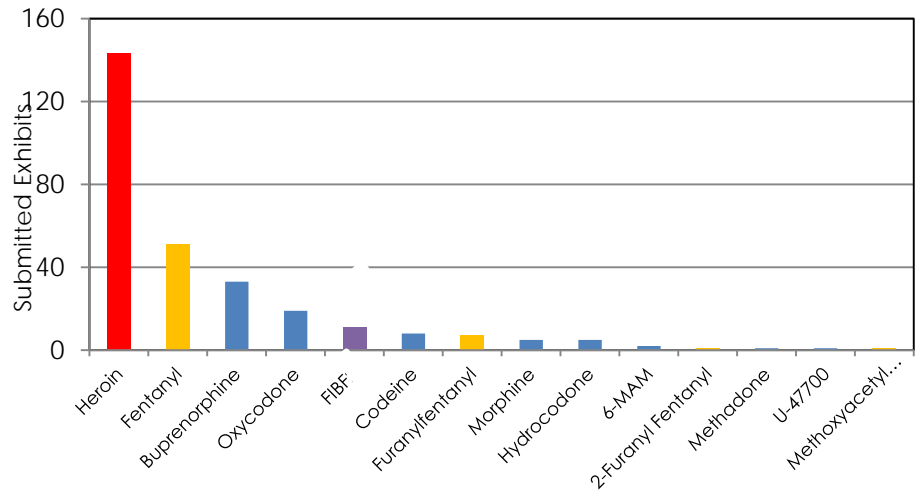
54% of all heroin has fentanyl in it

DFS – OPIOIDS 2018

Synthetic Opioids Confirmed

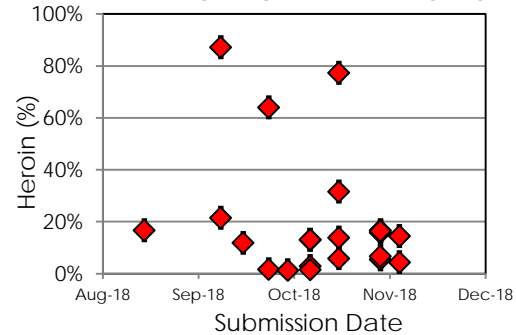


Main Component Opioids Detected (2016-2019)

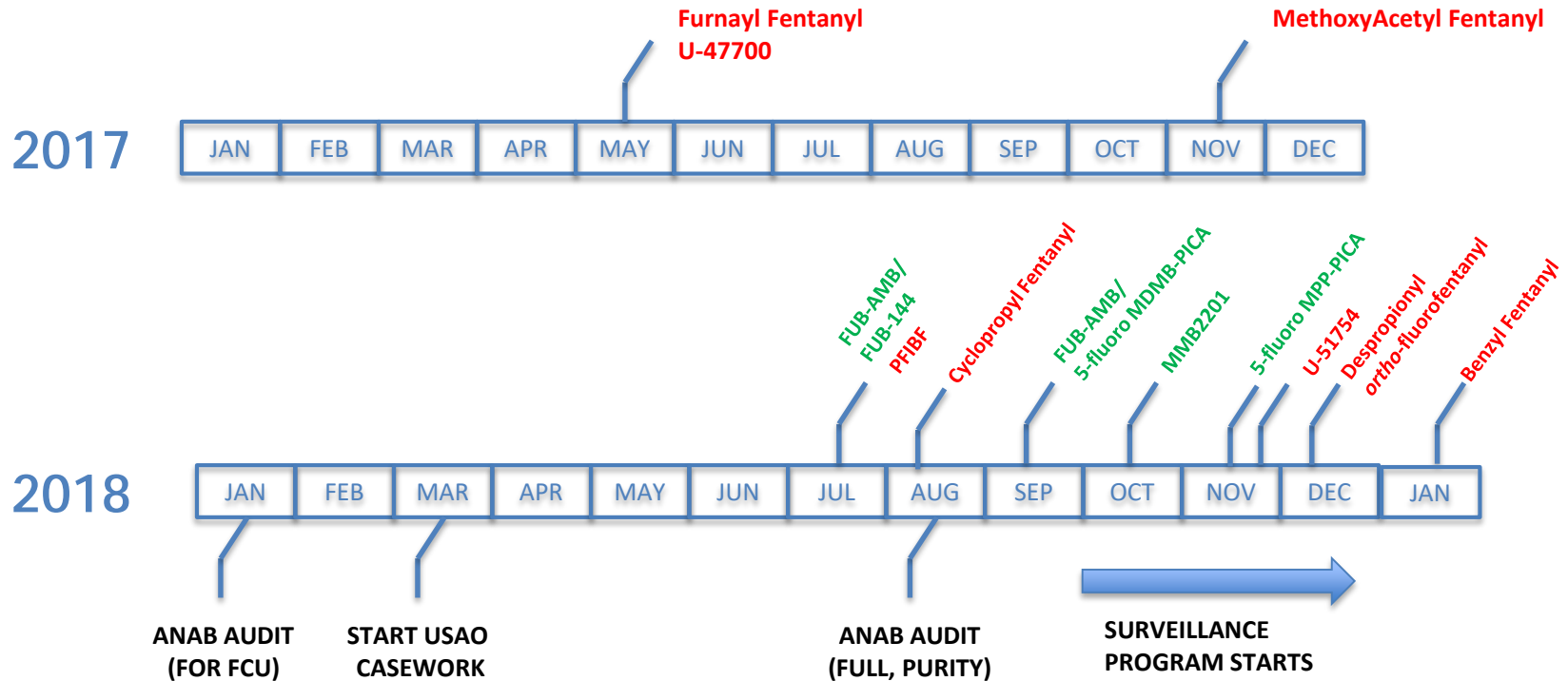


Heroin is about 20% pure. There have been some outliers

HEROIN PURITY IN THE DISTRICT



SURVEILLANCE DISCOVERIES

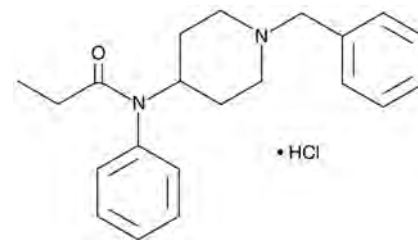


OPIOID DISCOVERIES

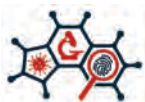
New Synthetic Opioids Discovered via Surveillance at DFS:

1. Benzyl Fentanyl (January, 2019)
2. Despropionyl *ortho*-fluorofentanyl (December, 2018)
3. U-51754 (November, 2018)
4. Para-fluorosobutyryl Fentanyl, PFIBF (July, 2018)*
5. Cyclopropyl Fentanyl (August, 2018)*
6. Methoxy Acetyl Fentanyl (November, 2017)*
7. U-47700 (May, 2017)*
8. Furanyl Fentanyl (May, 2017)*

Surveillance Samples (MPD)
Syringe Surveillance (OCME)



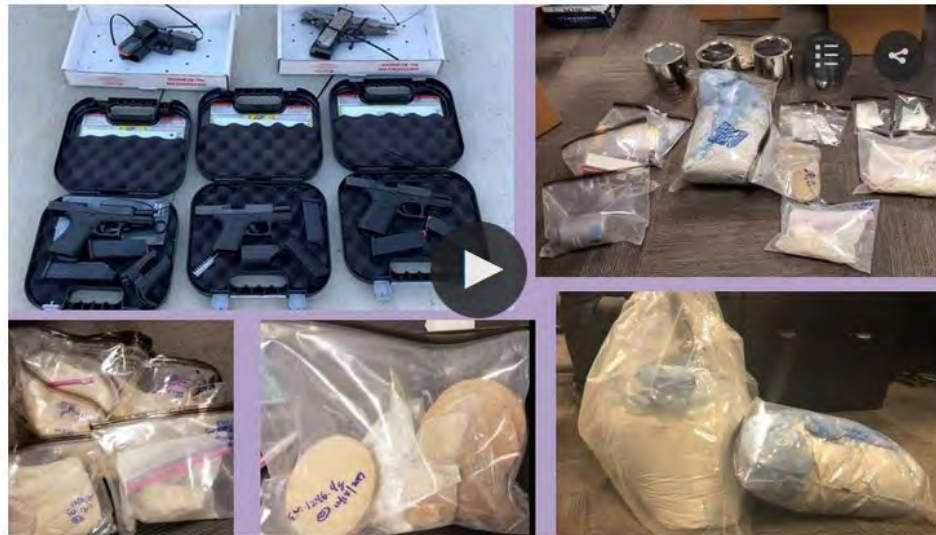
Benzyl Fentanyl
(New, 2019)



WHAT IS NOT ON THE STREET

Largest heroin, fentanyl bust ever
in DC: 2 arrested; guns, \$2.5
million in drugs seized

by Stephen Tschida/ABC7 | Friday, January 4th 2019



Largest heroin/fentanyl bust ever in DC: 2 arrested; six guns; \$2.5 million in drugs seized (MPD)