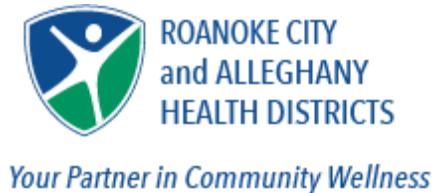


# Peaks and Valleys: A Hike Through Local Substance Use Data



# Mission of Peaks and Valleys



- *Provide high-quality, actionable, Roanoke Valley data to individuals working directly or indirectly to combat the overdose crisis*
- *Offer the opportunity to collaborate on strategies to continue to reduce the incidence of overdose and substance-use-related health outcomes*

# DATA: What's Included?

- Overdoses
  - Emergency Department Visits
  - ~~Overdose Data Mapping Application Program (ODMAP)\*~~
- *Overdose Fatalities\**
- Impacts of Overdose and Substance Use Disorder: HIV, Hepatitis C, Neonatal Abstinence Syndrome (NAS)
- *What's Working: Local Program Data\**

*\*Adapted from original to include only publicly available data*

# Data Notes

- For the purpose of this presentation, the Roanoke Metro Area (RMA) is defined as Roanoke City, Roanoke County, and Salem City.
- This is adapted from the original presentation to include only publicly available data.

# Emergency Department Visits

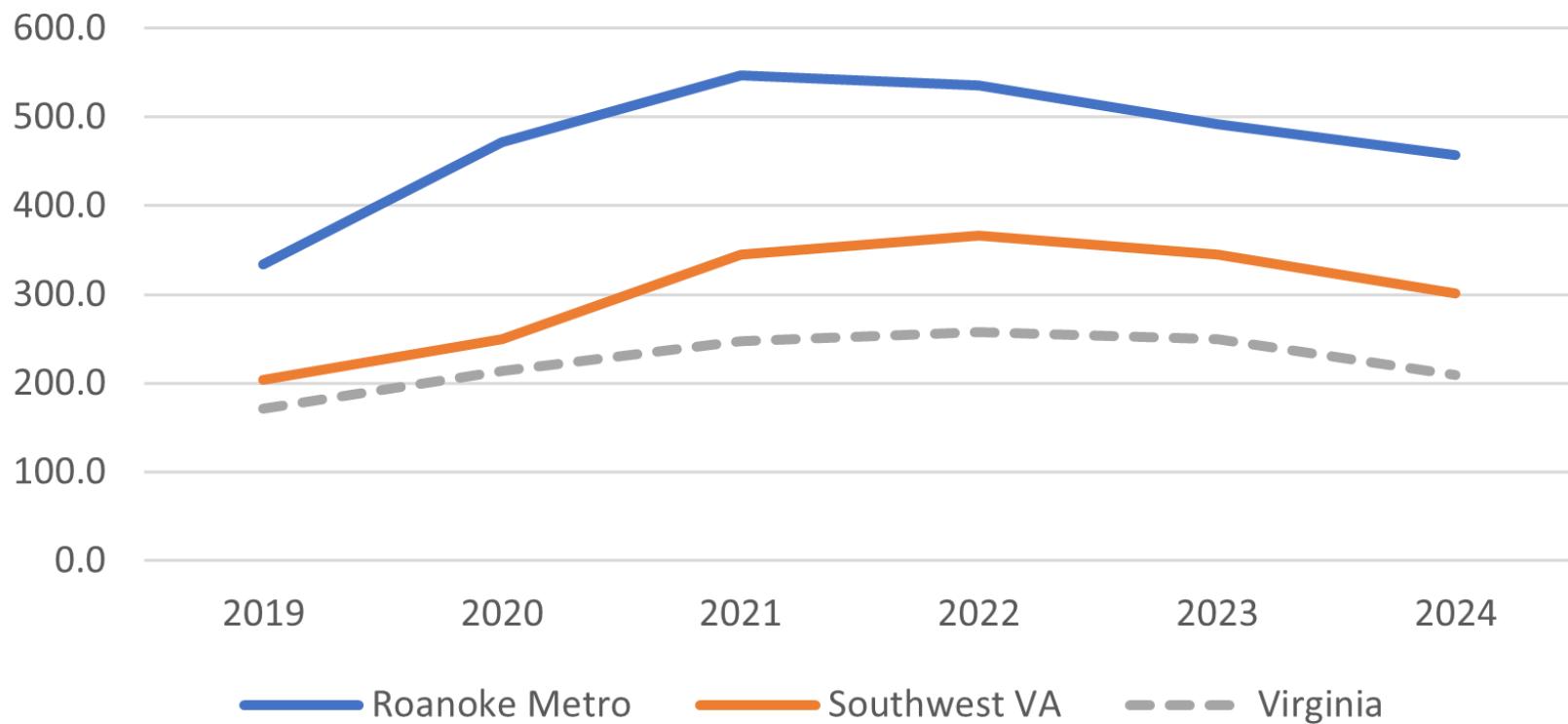


- *Who is going to the hospital for overdose?*
  - *Where do they live?*
- *What drugs contributed to their OD?*

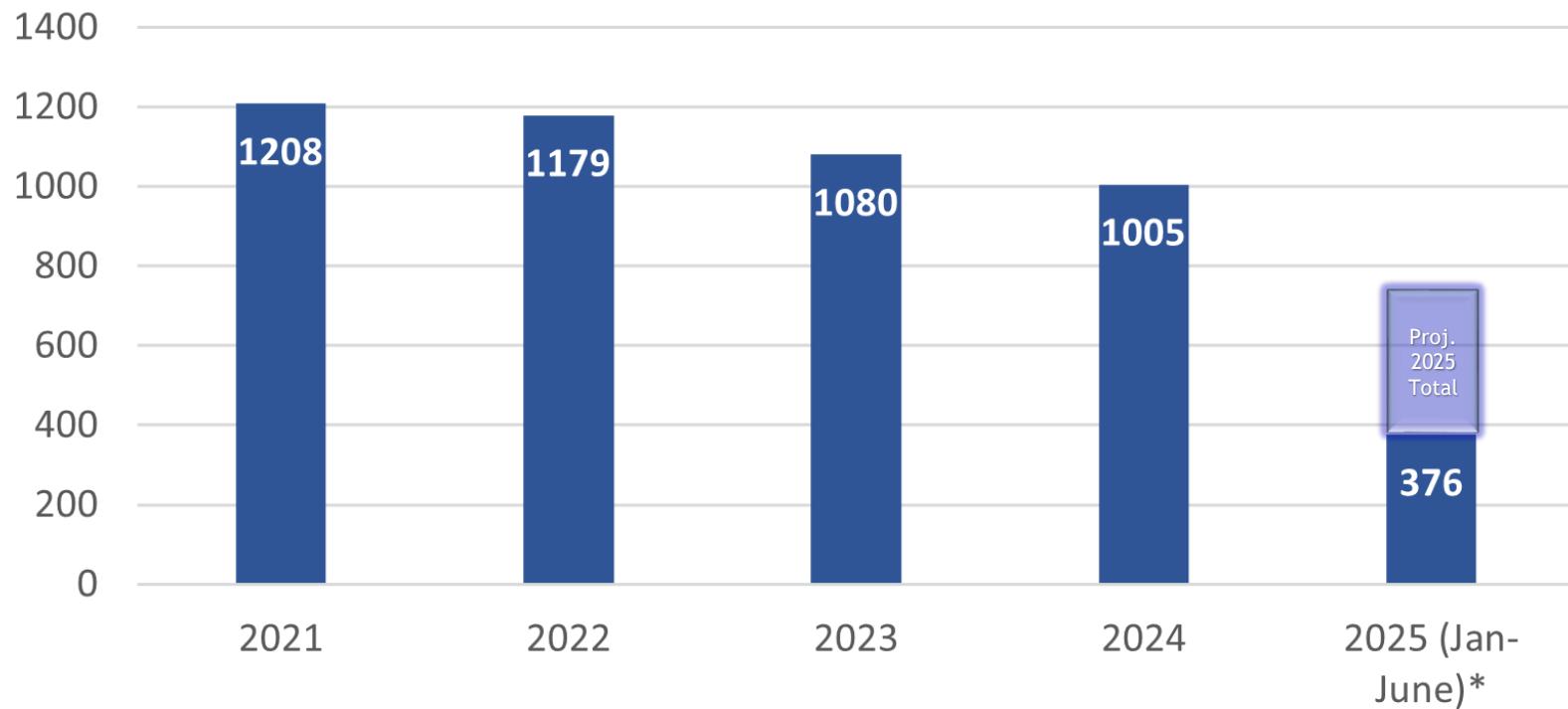


## ED Visits for Overdose Declining Since 2021

All Drug Emergency Department Visits, Rate per  
100K Population, Roanoke Metro



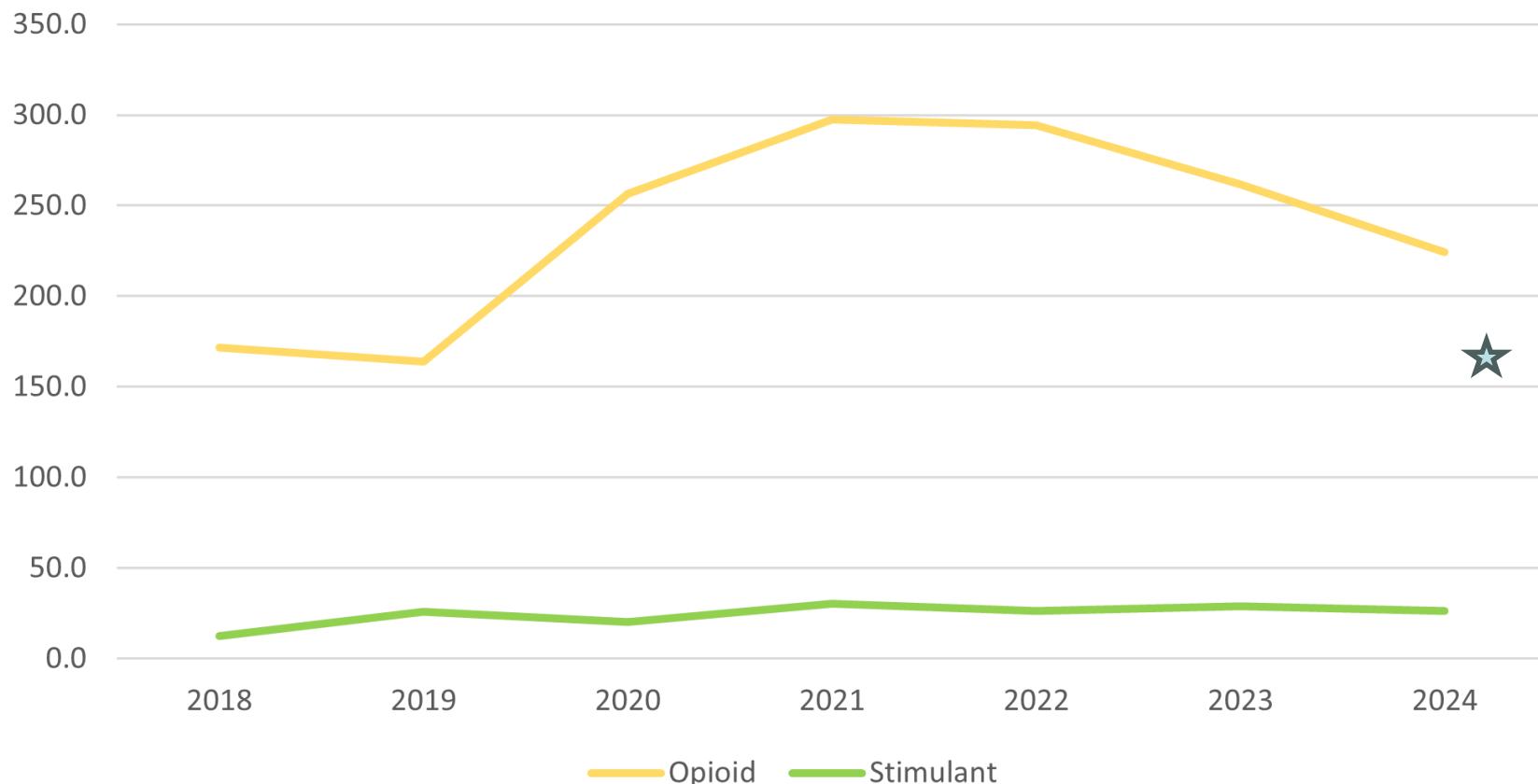
## Number of Emergency Department Visits for Unintentional Overdose Per Year, Roanoke Metro



# Opioid-Related ED Visits Decline, Stimulant-Related Visits Hold Steady



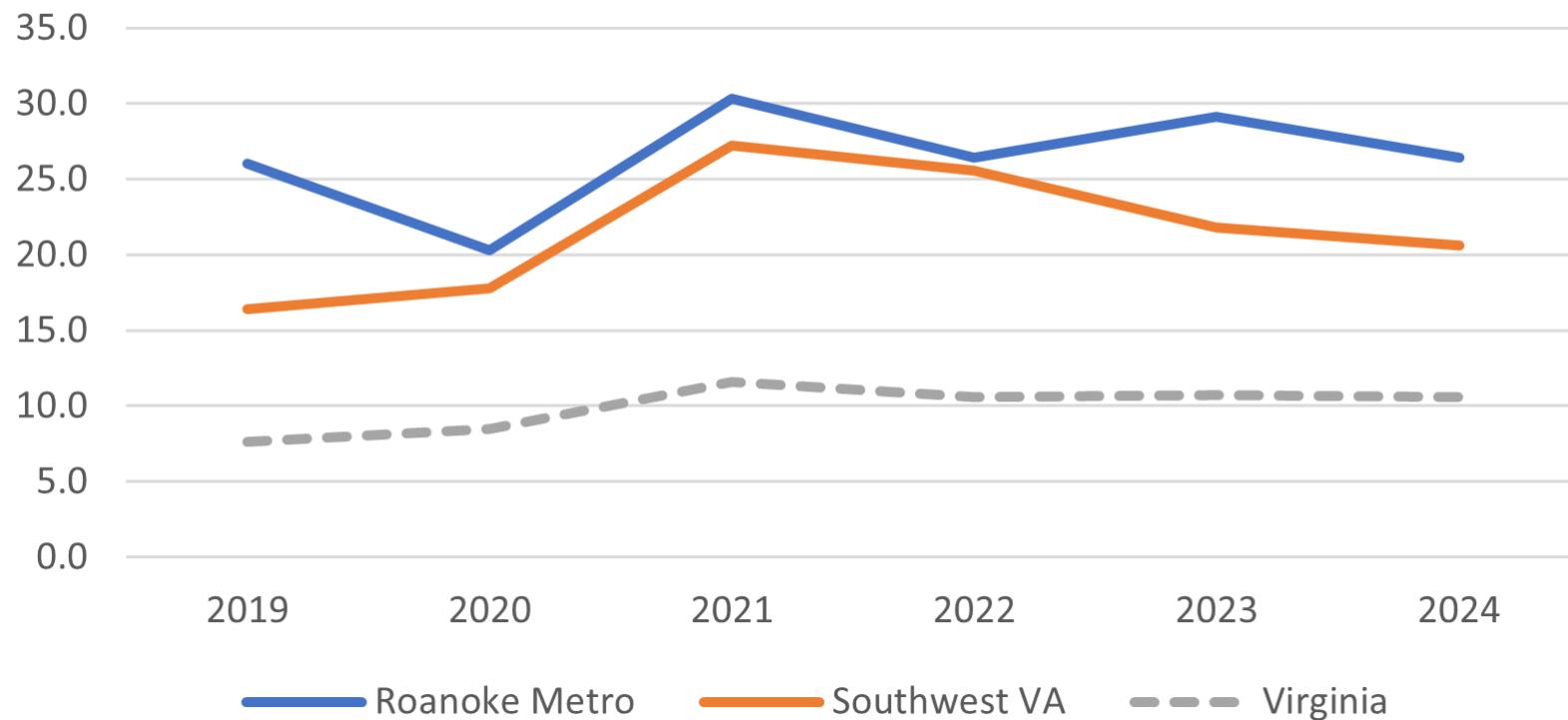
## Emergency Department Visits by Drug Type, Rate per 100K Population, Roanoke Metro



# ED Visits for Stimulants: Slight Decline in 2024



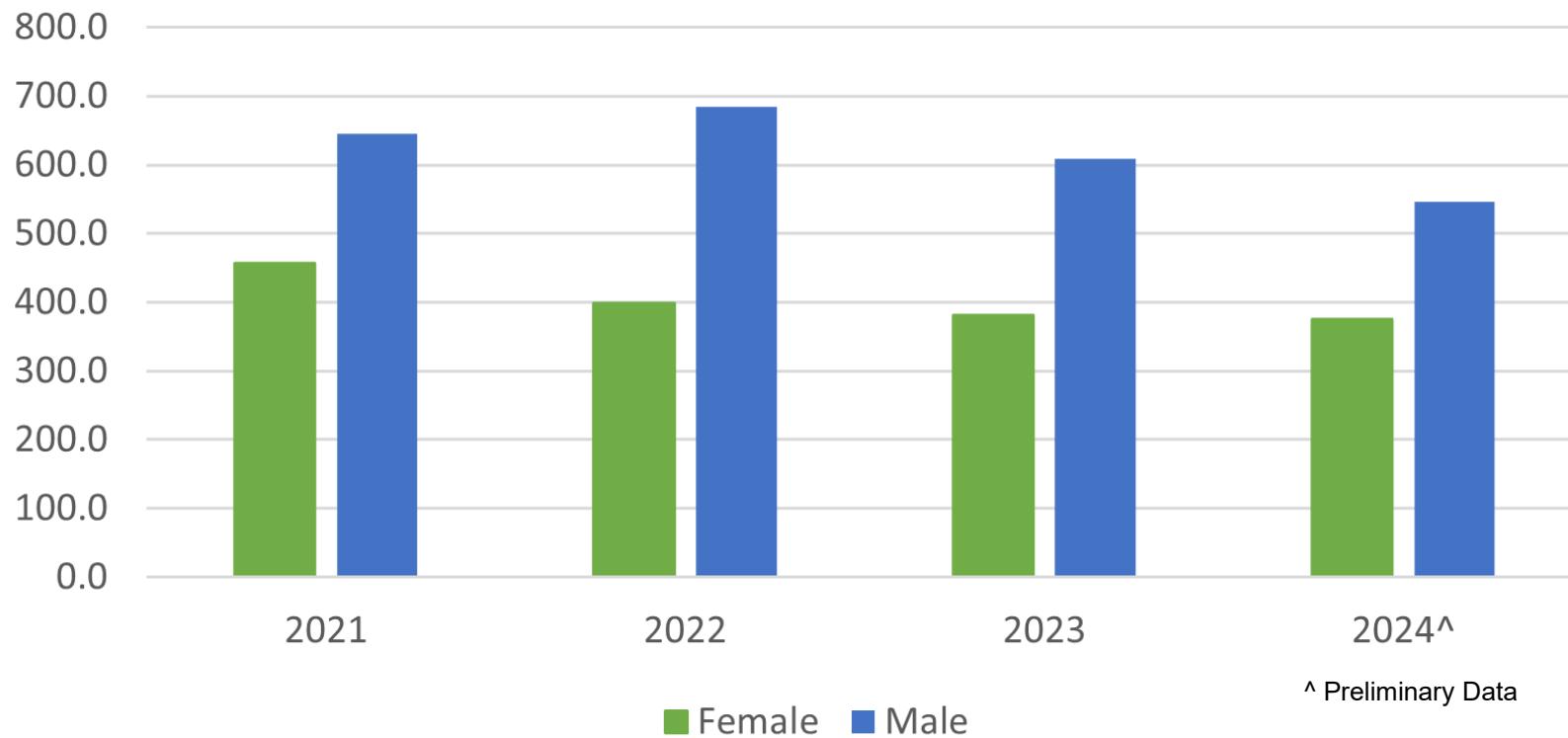
## Stimulant Emergency Department Visits, Rate per 100K Population, Roanoke Metro



# ED Visits for ODs: Women's Decline Stagnates

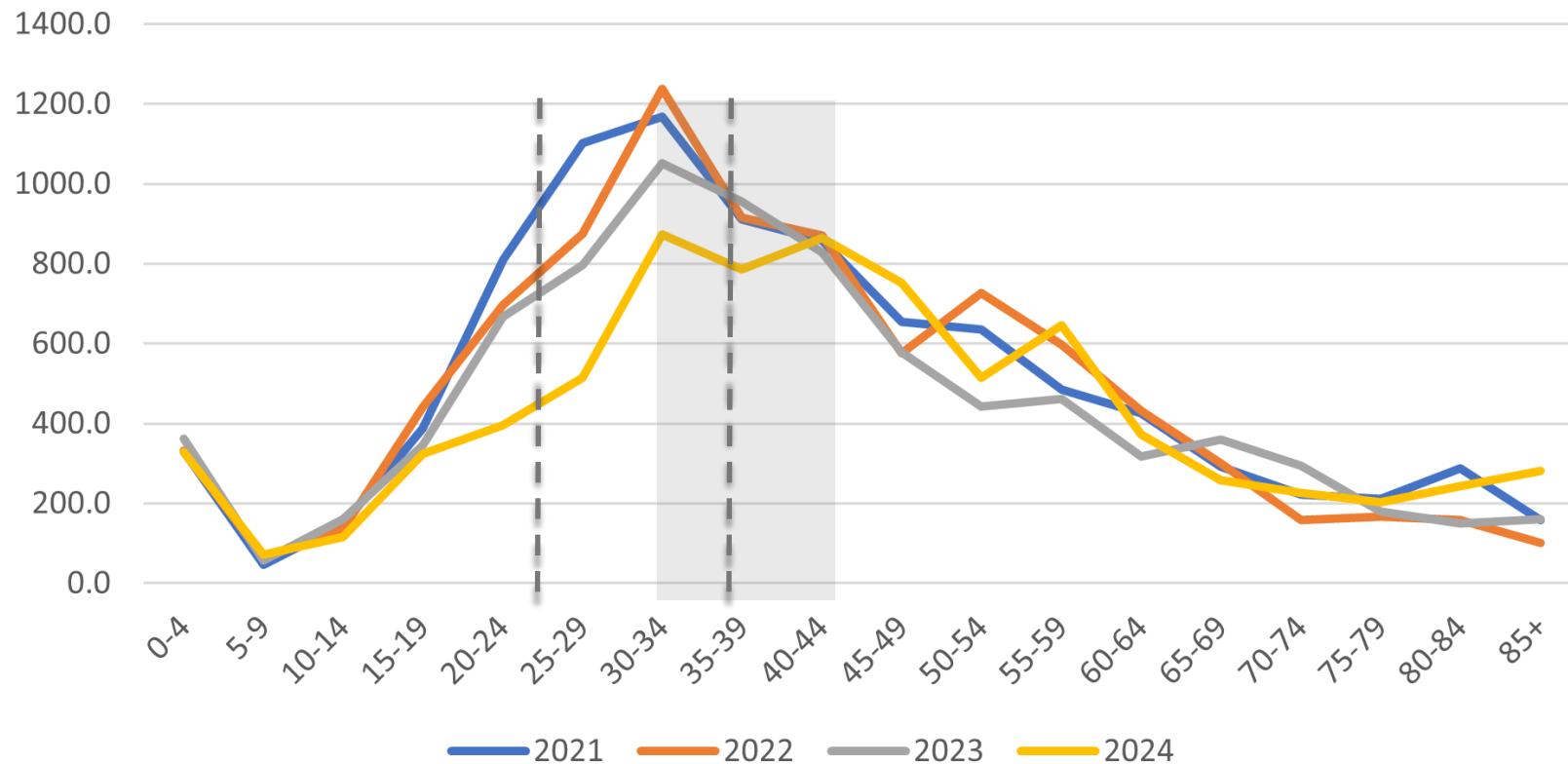


Emergency Department Visits by Sex, Rate per 100K, Roanoke Metro



# Ages 30-44 Most Likely to Visit ED for ODs

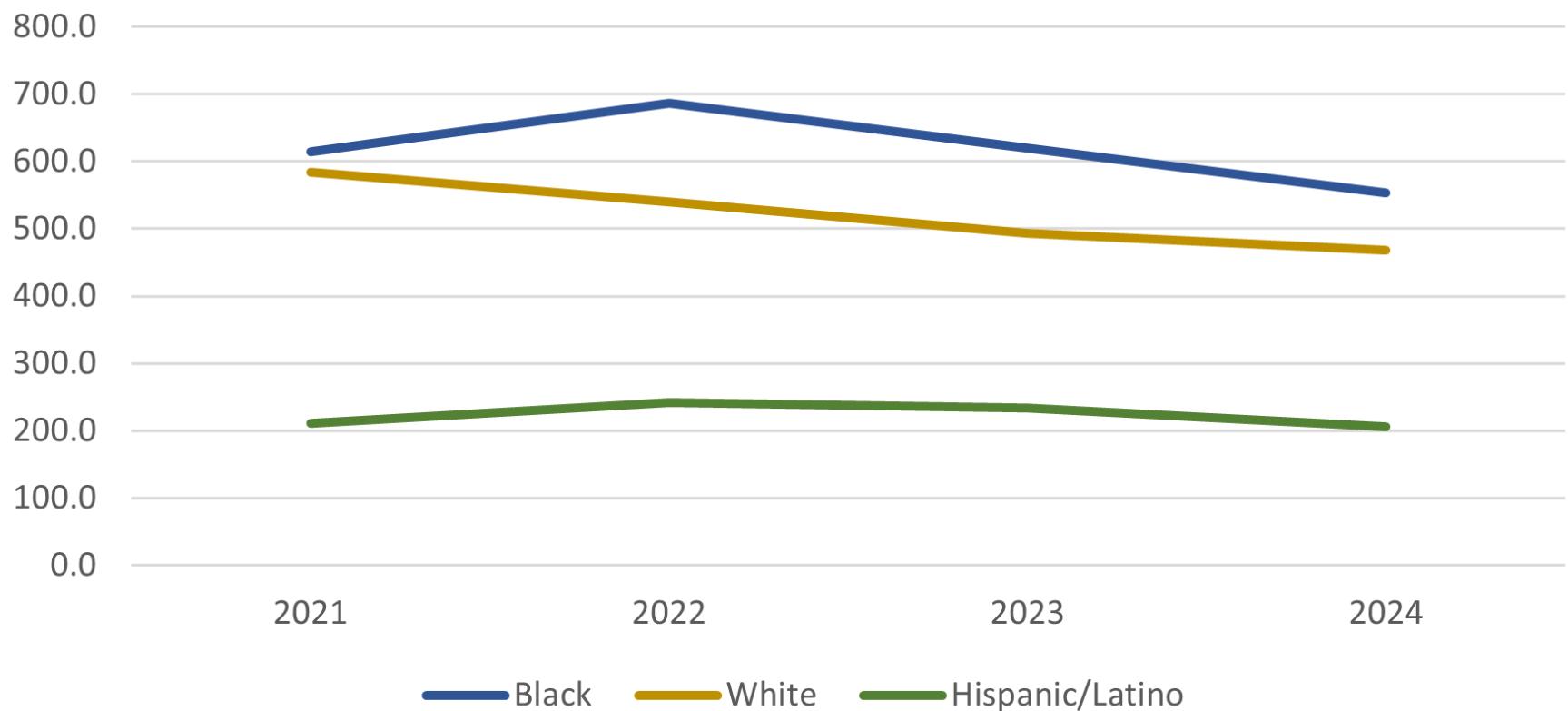
Emergency Department Visits for Overdose by Age Group,  
Rate per 100K, Roanoke Metro (2021-2024)



# Black Individuals Visit ED for OD at Higher Rate than Others



## Rate of ED Visits for OD by Race/Ethnicity, Roanoke Metro



# Key Takeaways

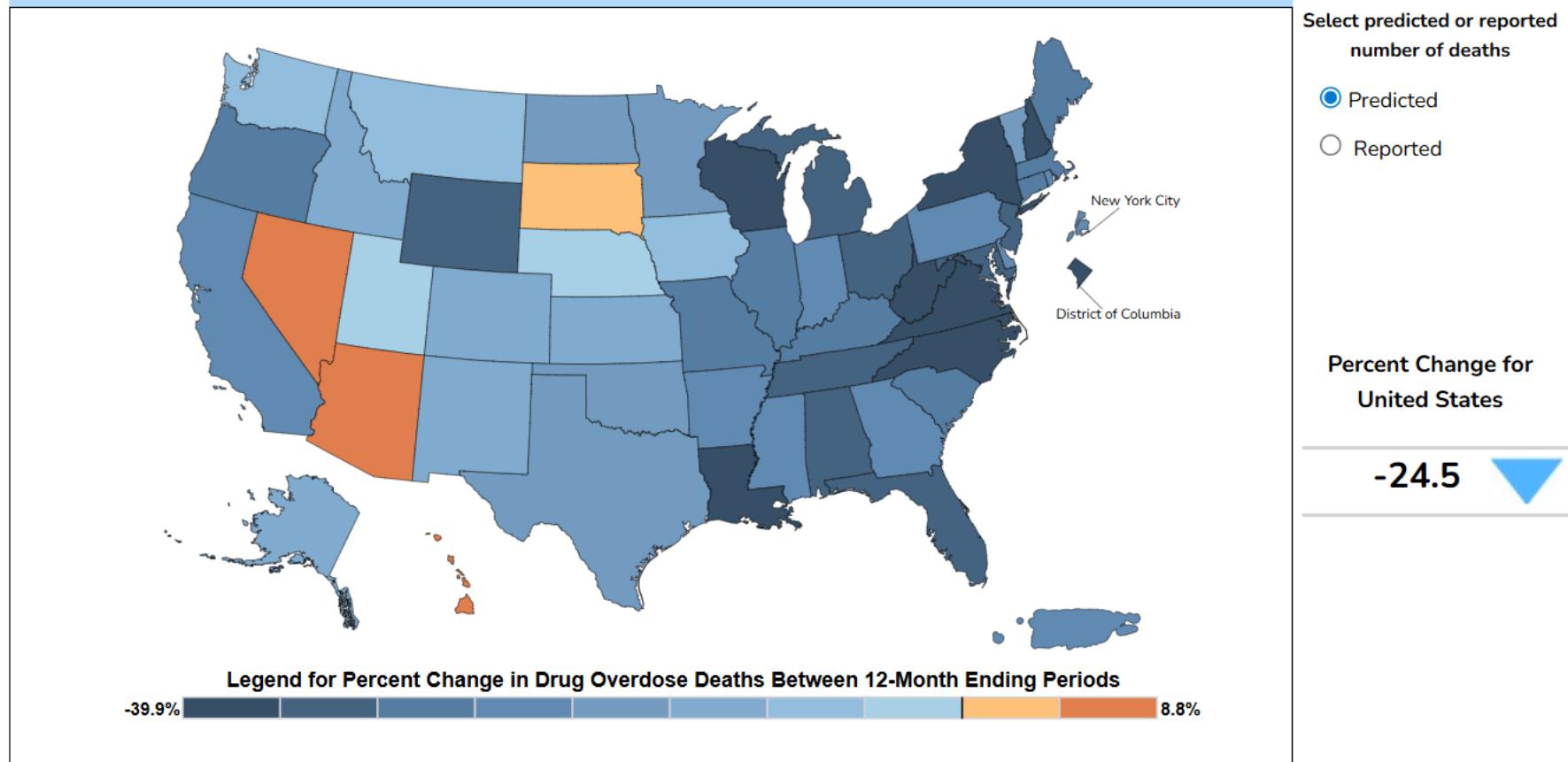
- ED Visits for OD, particularly Opioid-Related visits, continue to decline in Roanoke Metro
- RMA continues to see ED visits for OD at about 2x state average
- People ages 30-44 are most likely to visit the ED for OD
- Men continue to visit the ED for OD more often than women
- Black residents continue visits ED for OD more often than other races/ethnicities

# Overdose Fatalities



# Fatal ODs Decrease Across Most of the US

**Figure 1b. Percent Change in Predicted 12 Month-ending Count of Drug Overdose Deaths, by Jurisdiction: April 2024 to April 2025**



# 2024: Roanoke falls out of Top 10 U.S. localities for OD fatalities



Your Partner in Community Wellness

Top  
10

Roanoke

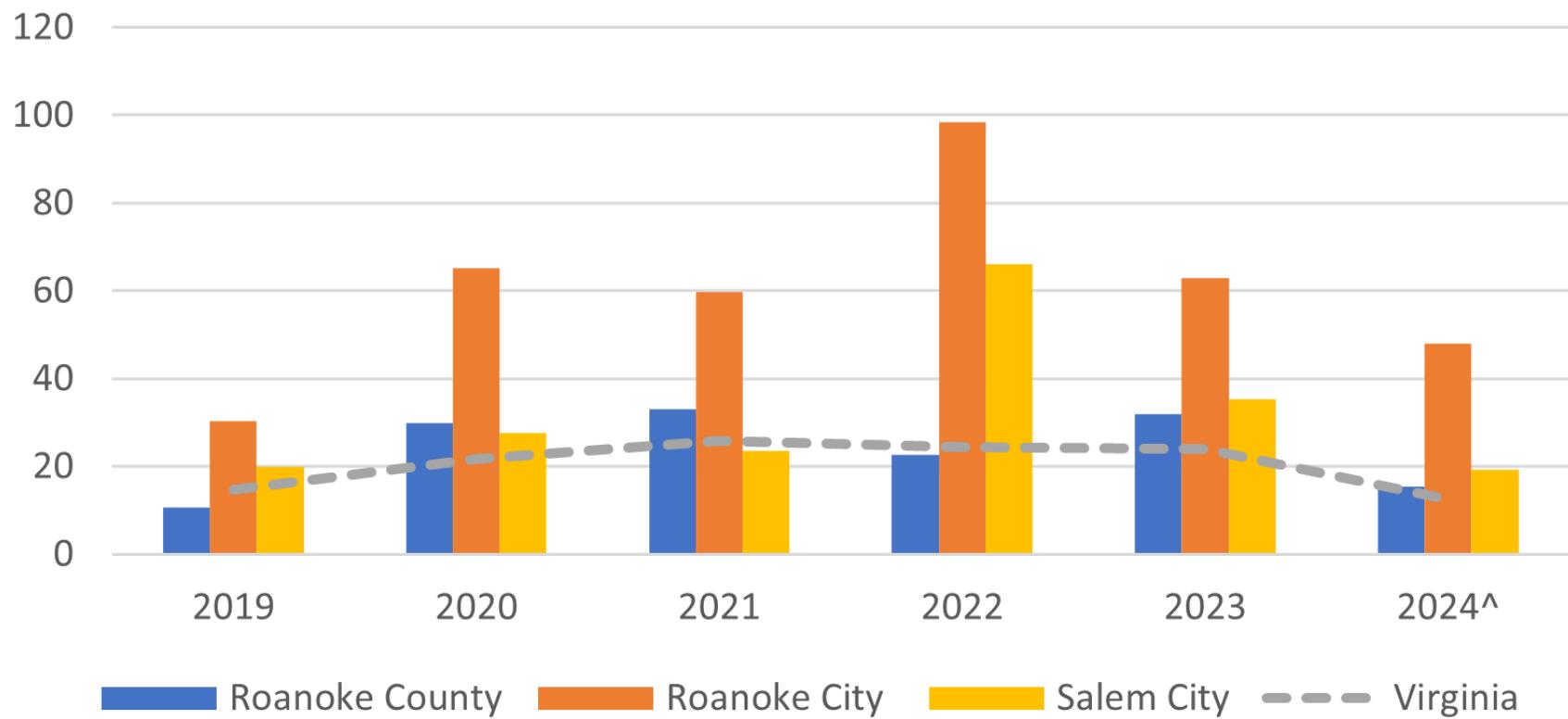
Jurisdiction ▼	Dec. 2023 - Nov. 2024		Dec. 2019 - Nov. 2020	
	Rate ▼	Fentanyl share ▼	Rate ▼	Fentanyl share ▼
➤ U.S. overall	23.9	61%	27.3	61%
➤ Roanoke city, Va.	95.0	71%	99.1	70%
➤ Lee County, Ky.	164.1	--	--	--
➤ Baltimore city, Md.	142.2	85%	176.3	89%
➤ Bullock County, Ala.	141.4	100%	--	--
➤ McDowell County, W.Va.	128.3	91%	137.3	81%
➤ Cabell County, W.Va.	126.8	72%	162.3	84%
➤ Rio Arriba County, N.M.	125.1	74%	96.9	46%
➤ Breathitt County, Ky.	109.3	--	--	--
➤ Estill County, Ky.	107.1	--	--	--
➤ Clay County, Ky.	102.1	--	--	--
➤ Mercer County, W.Va.	99.1	75%	67.2	70%
➤ Lincoln County, W.Va.	98.1	90%	--	--
➤ Knott County, Ky.	96.7	--	120.0	--
➤ St. Louis city, Mo.	95.5	82%	141.5	86%
➤ Boyd County, Ky.	94.2	62%	105.8	80%
➤ Raleigh County, W.Va.	88.4	94%	138.4	81%

# Opioid-Related Fatalities Decline Across RMA

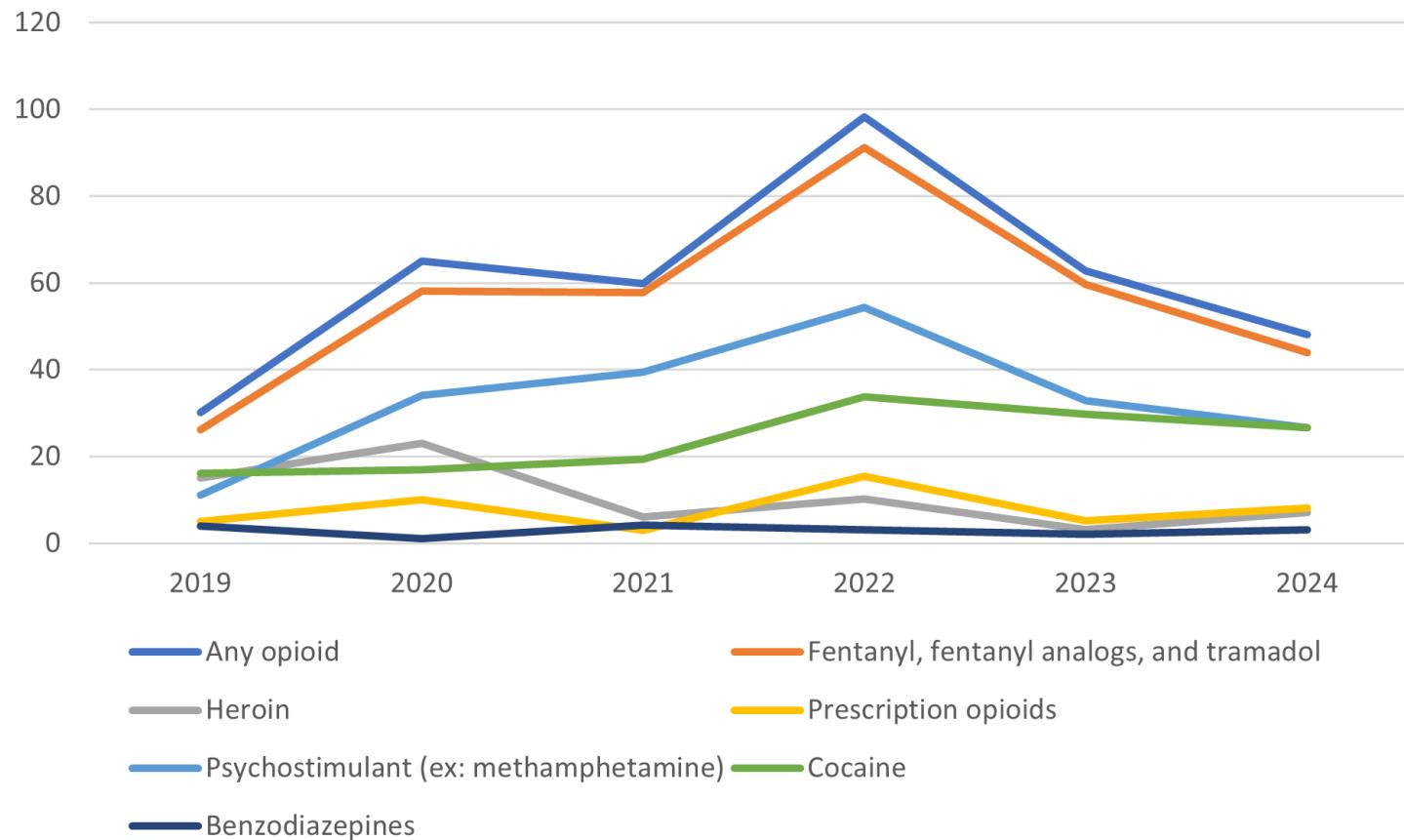


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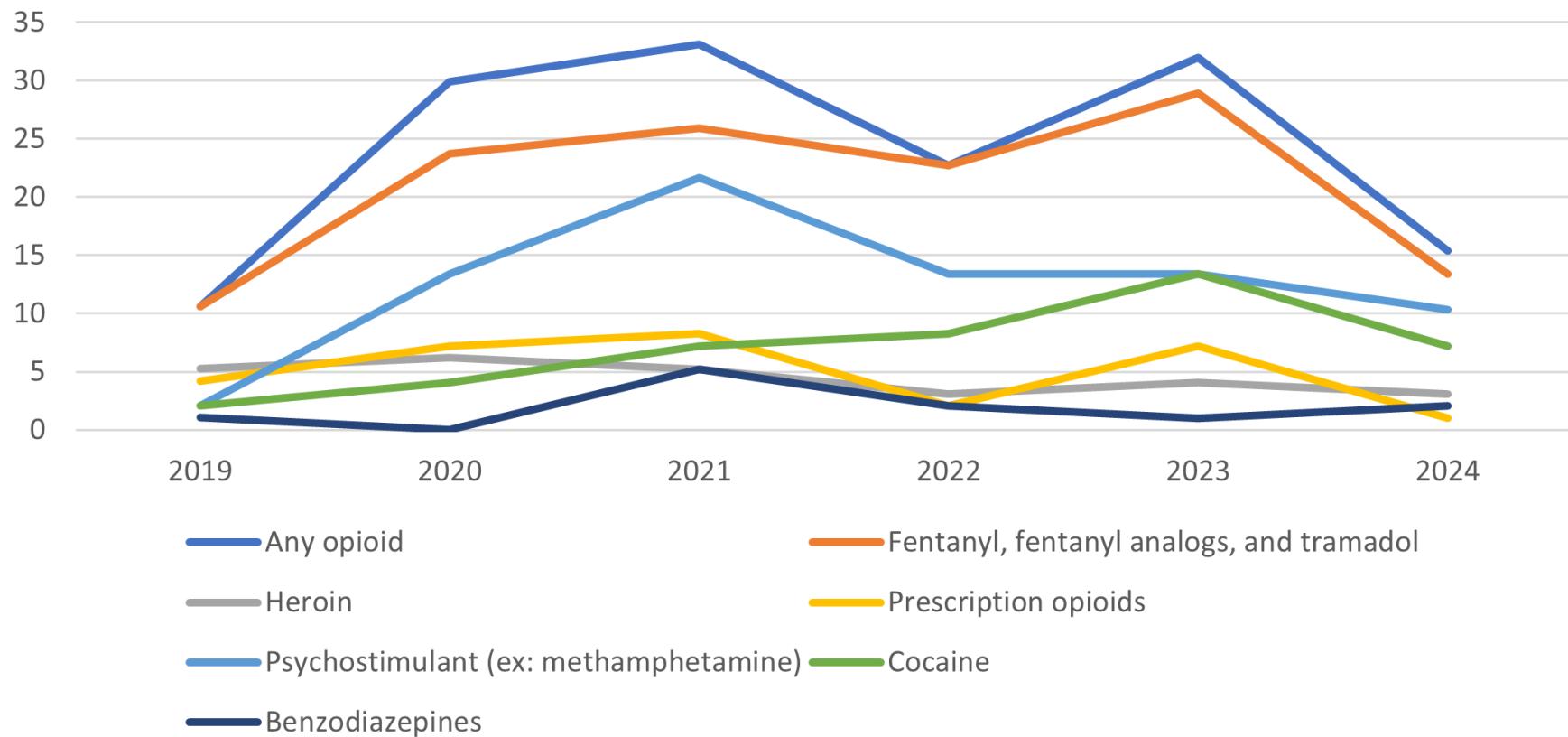
## Rate of Opioid-Related Overdose Fatalities, per 100K, by Locality



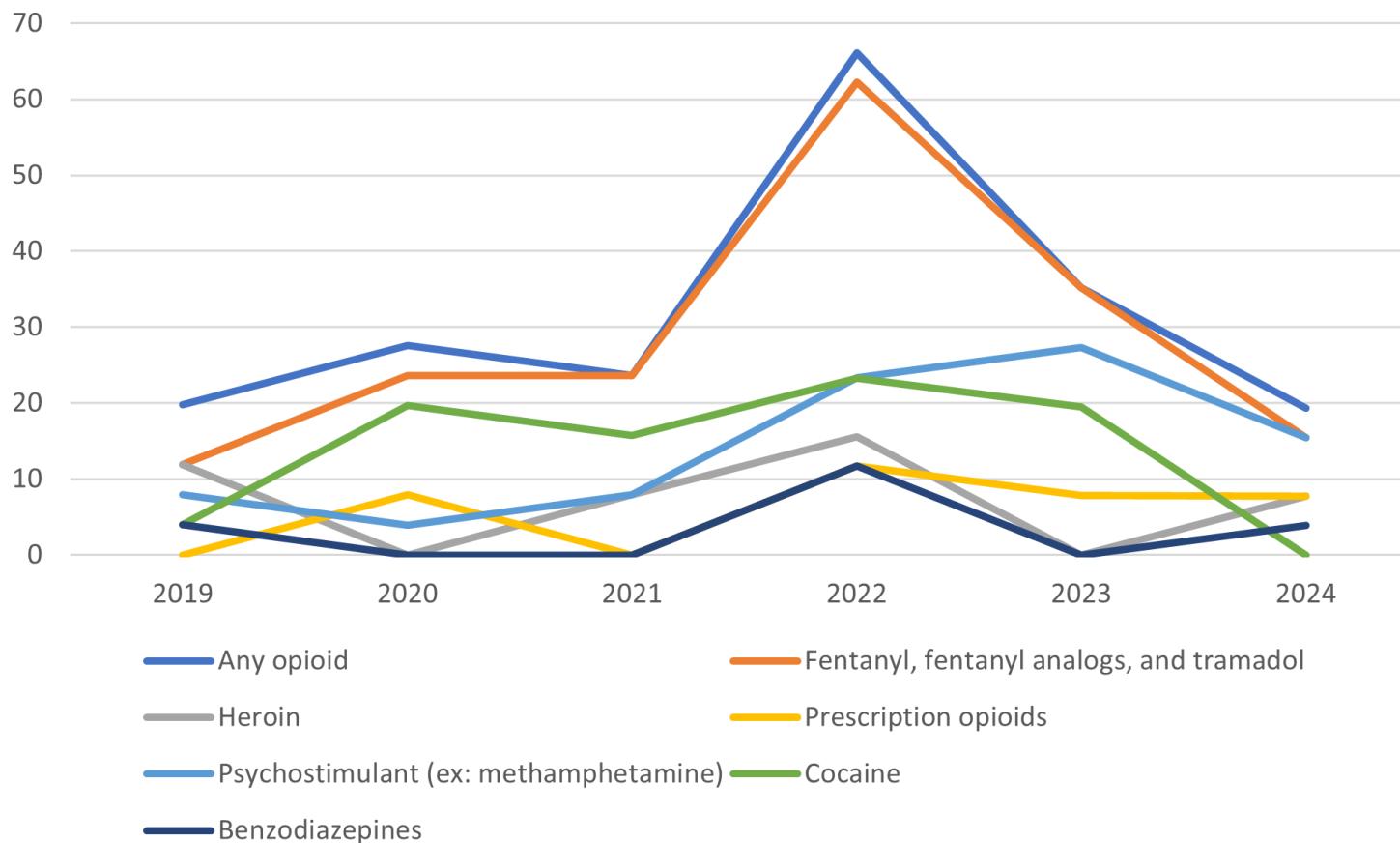
## Rate of Overdose Fatalities by Drug Class, Per 100K, Roanoke City



## Rate of Overdose Fatalities by Drug Class, Per 100K Population, Roanoke County



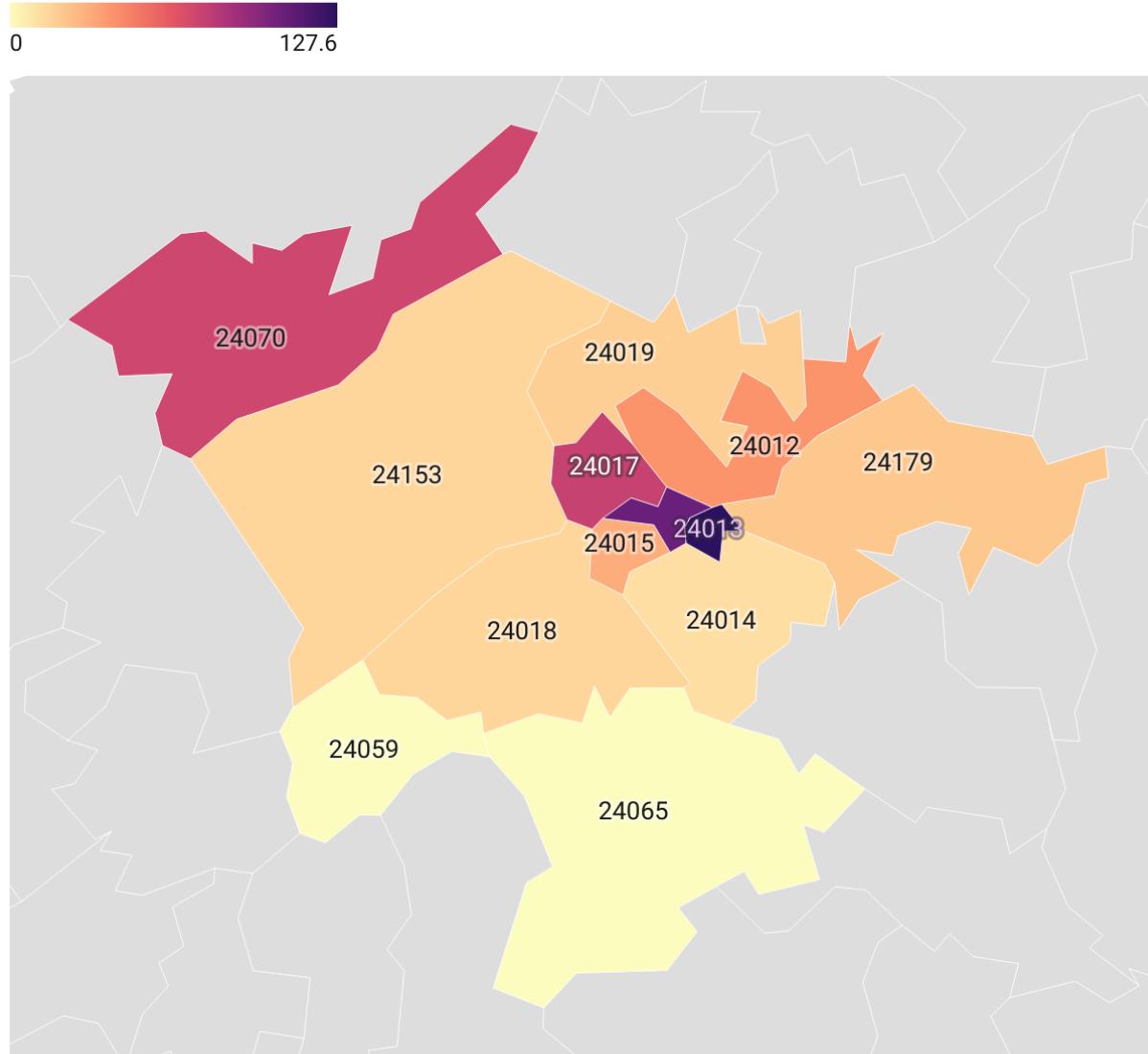
## Rate of Overdose Fatalities by Drug Class, per 100K, Salem City



# Overdose Fatalities by Victim's Zip Code, Rate Per 100K Population, Roanoke Metro (2024)

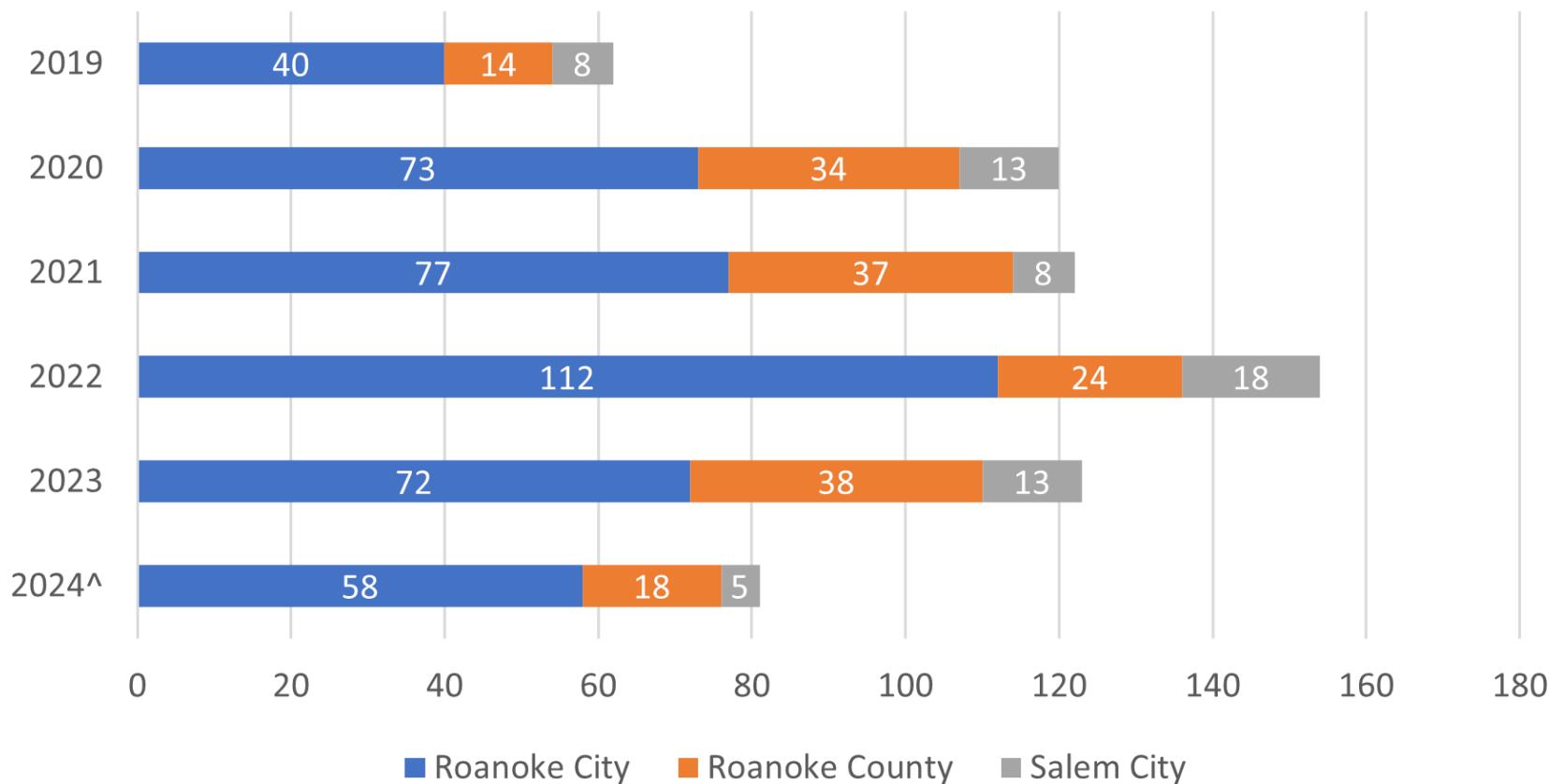


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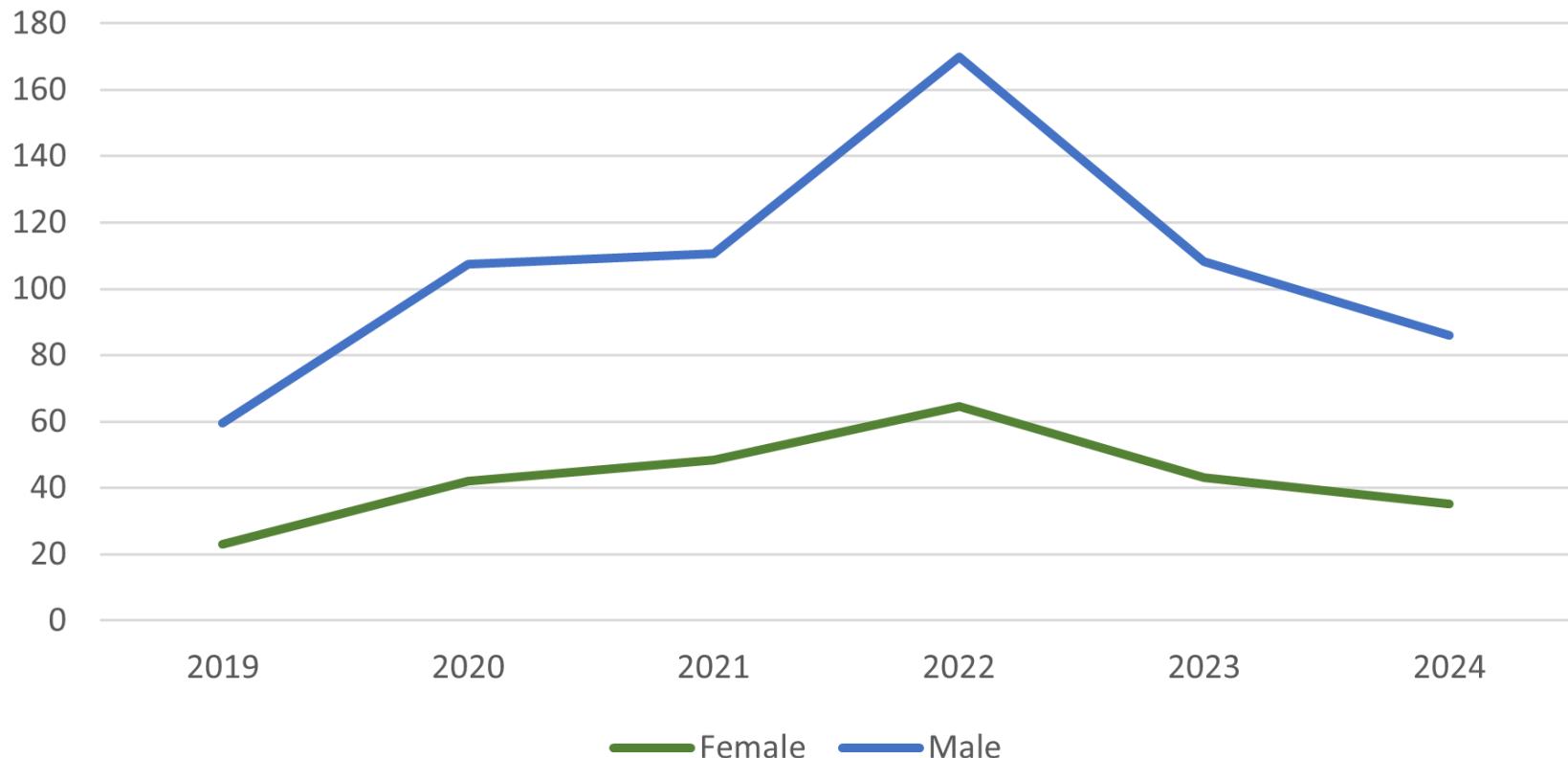
Source: VDH Vital Statistics • Map data: © Esri, TomTom North America, Inc., United States Postal Service • Created with Datawrapper

## Number of Overdose Fatalities by Locality, Roanoke Metro



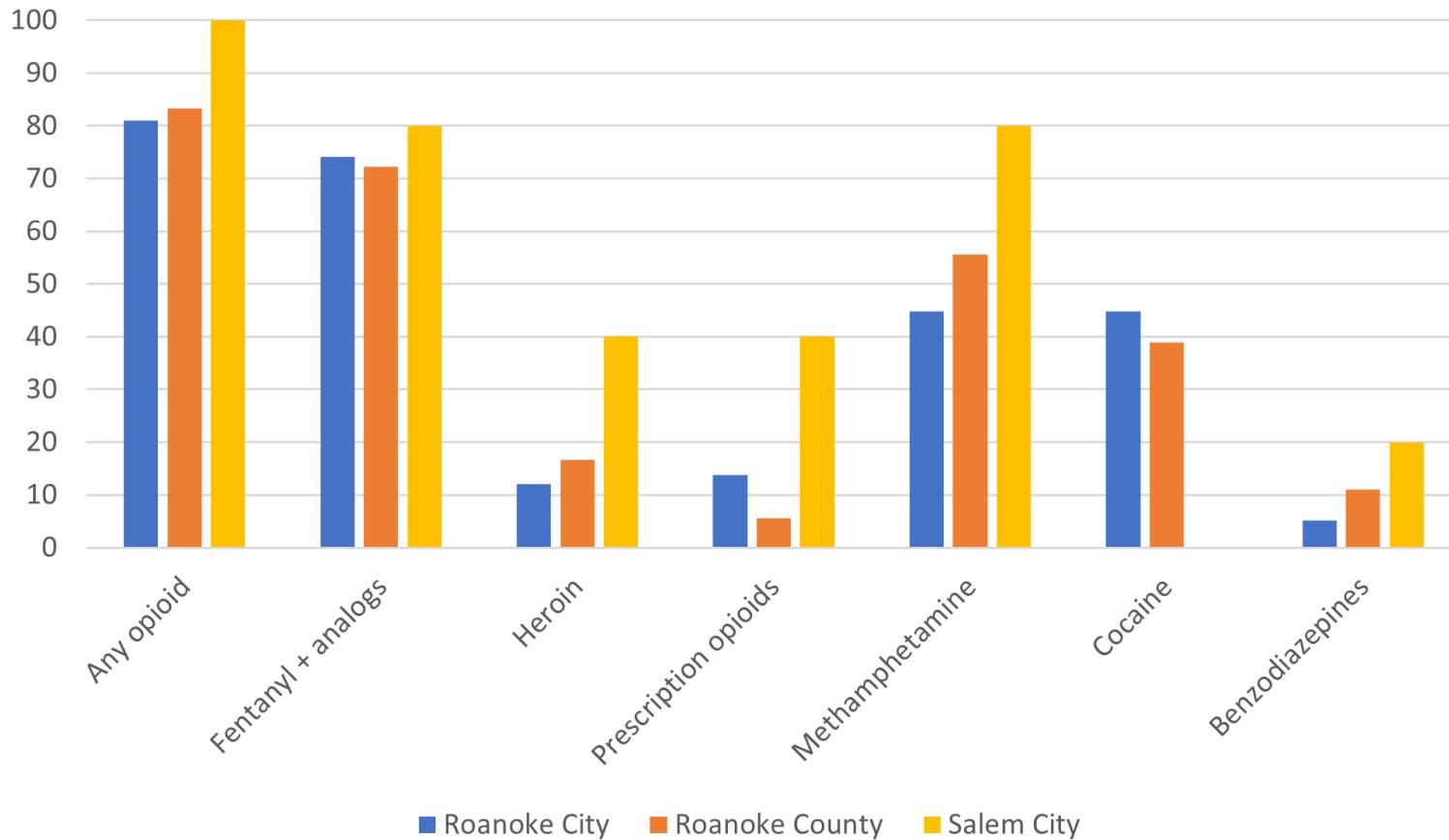
# Men Continue to Die of Overdose at Higher Rates

## Rate of Overdose Fatalities by Sex, per 100K Population, Roanoke City



OD

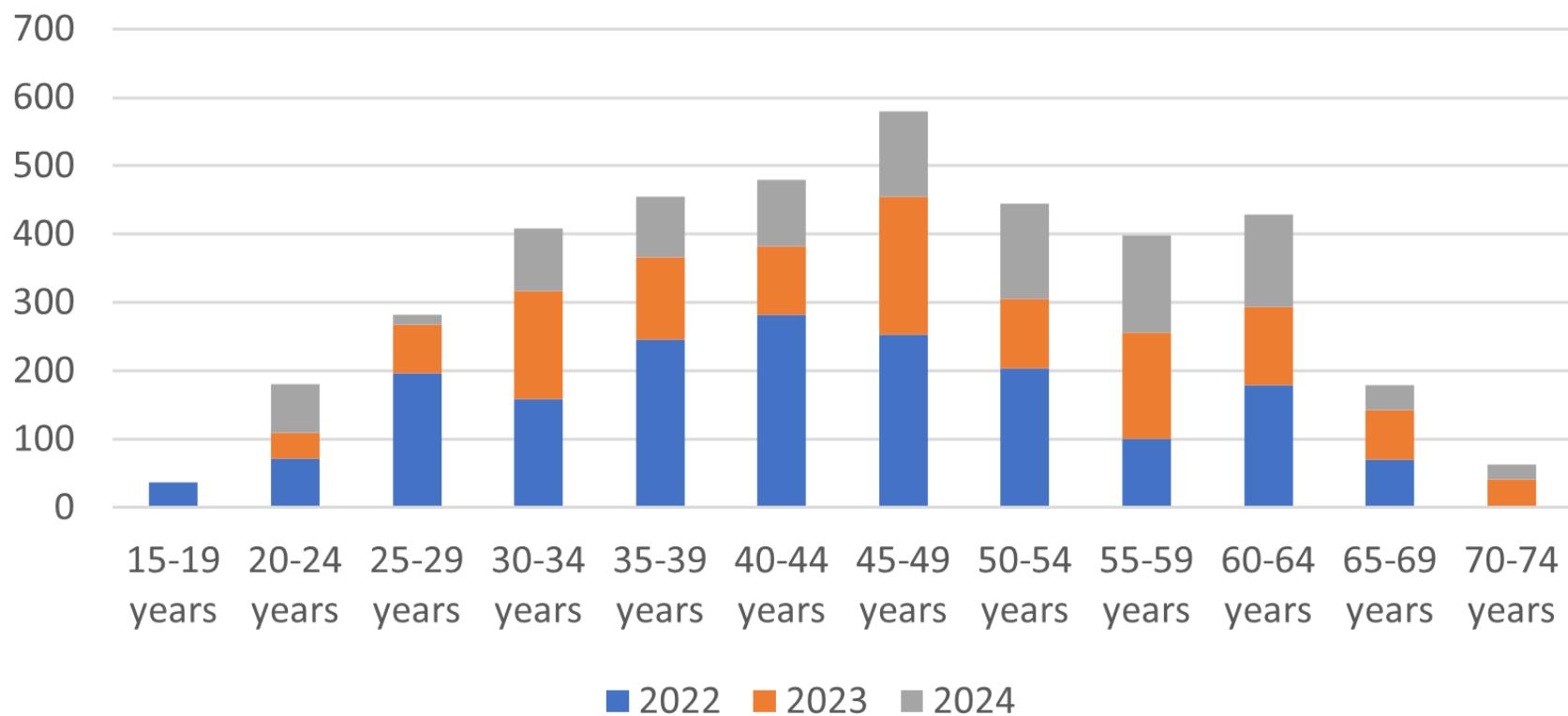
## Percent Overdose Fatalities by Drug Class, 2024<sup>^</sup>



# Overdose Fatalities Now Peak Between 45-64



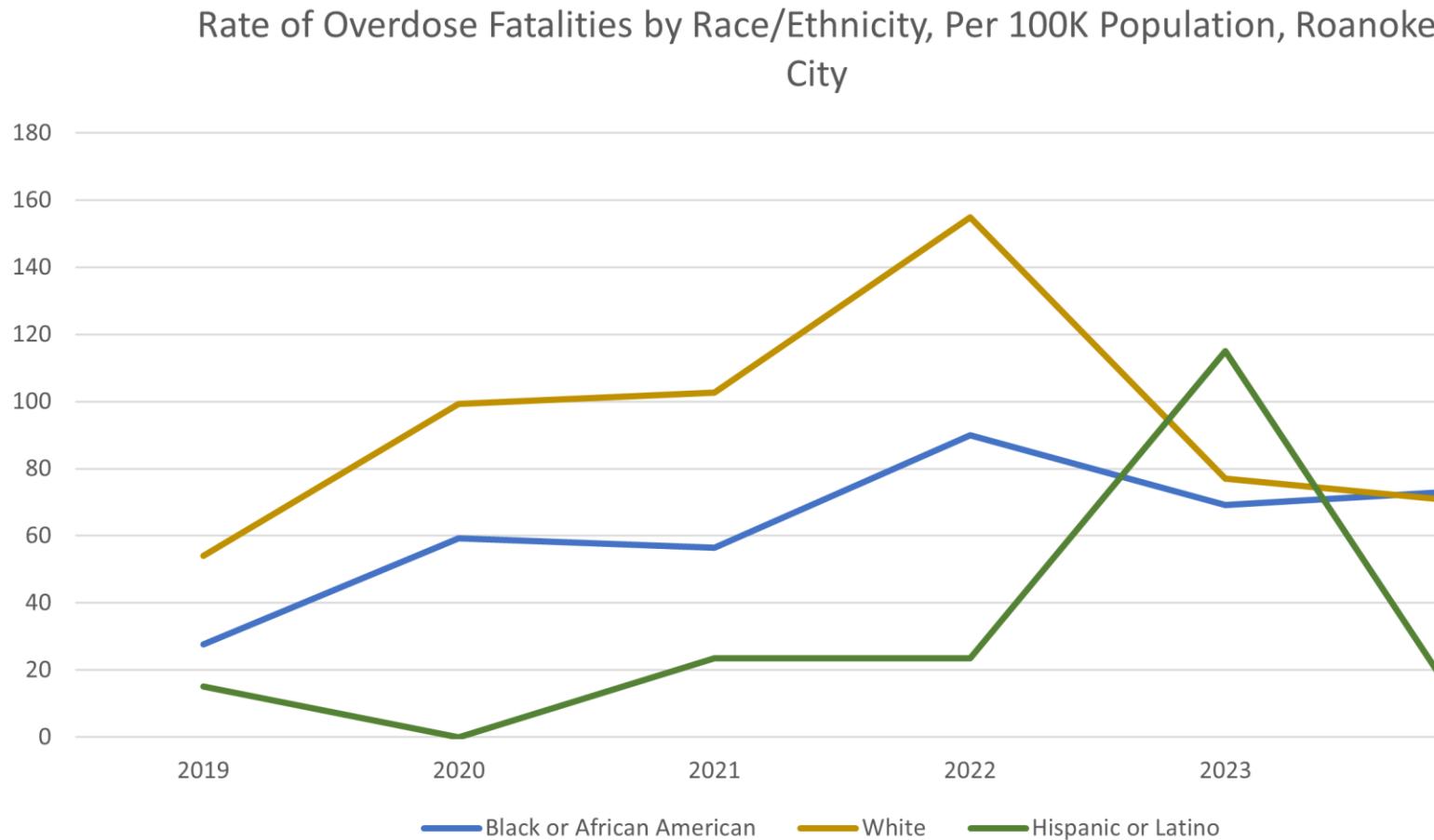
## Rate of Overdose Fatalities by Age Group, per 100K Population, Roanoke City



# Black Residents Are Now Slightly More Likely to Die of Overdose than White Residents



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## Key Takeaways

- Virginia leads the US in reduction in OD fatalities
- All Roanoke Metro localities saw significant decreases in OD fatalities with slight increases in some drug classes
- Ages 50-64, men, and black RMA residents are now more likely to die of overdose
- Roanoke City is disproportionately seeing OD fatalities, even among non-residents

# Other Indicators: Neonatal Abstinence Syndrome (NAS), HIV, and Hepatitis C

# Neonatal Abstinence Syndrome Rates, 2023

- 0
- 1.0 - 2.2
- 2.2 - 5.0
- 5.0 - 11.2
- 11.2 - 25.1
- 25.1 - 56.1

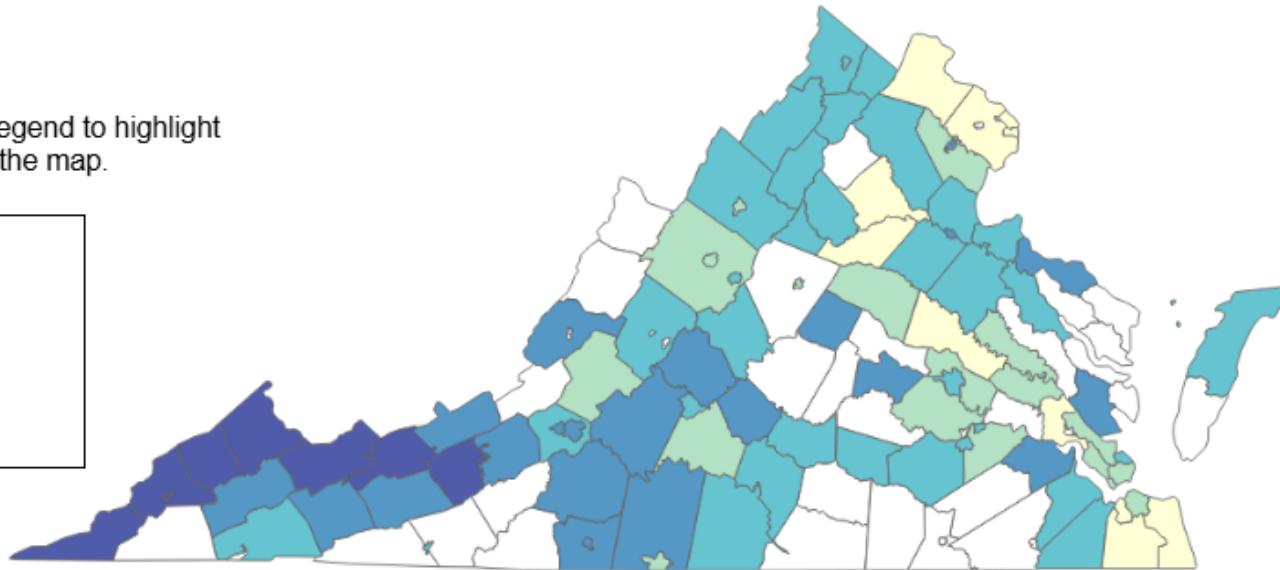
Neonatal Abstinence Syndrome (NAS) rate per 1,000  
birth hospitalizations

 Hover over legend to highlight  
localities on the map.

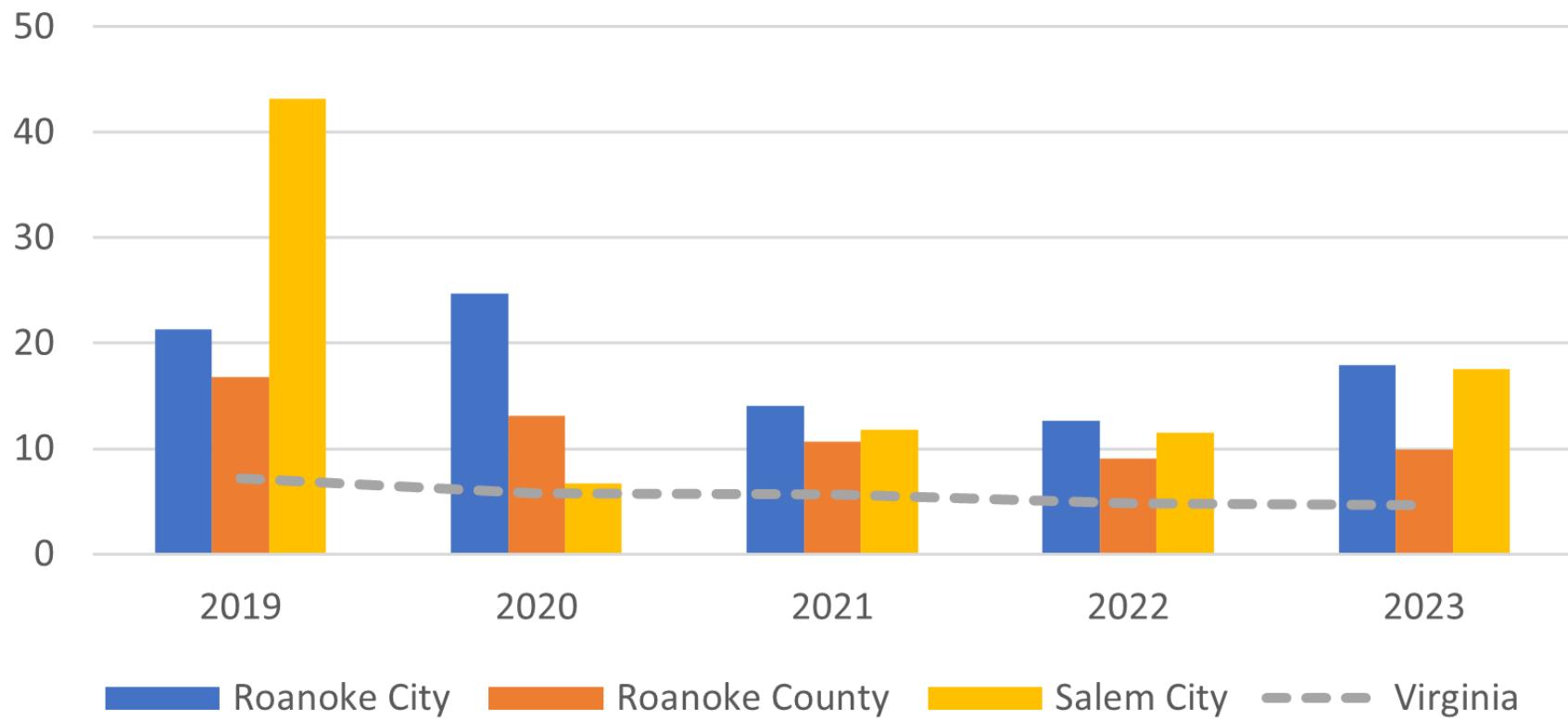
State Rate

**4.6**

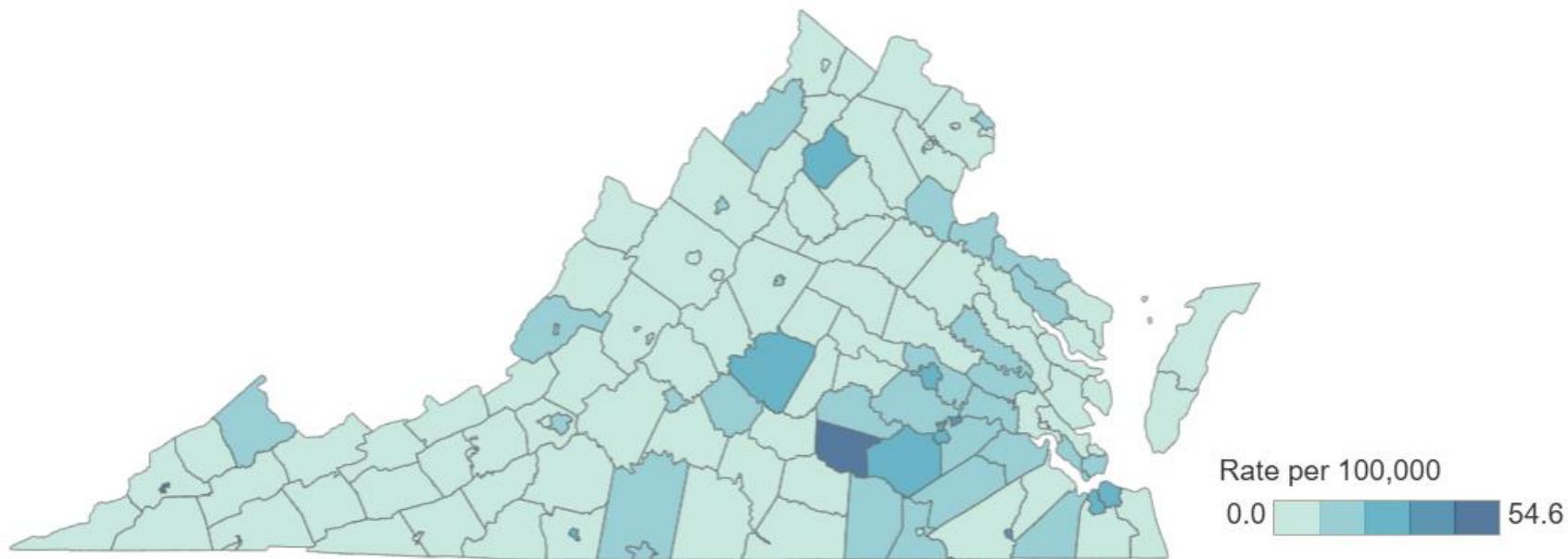
per 1,000 birth  
hospitalizations



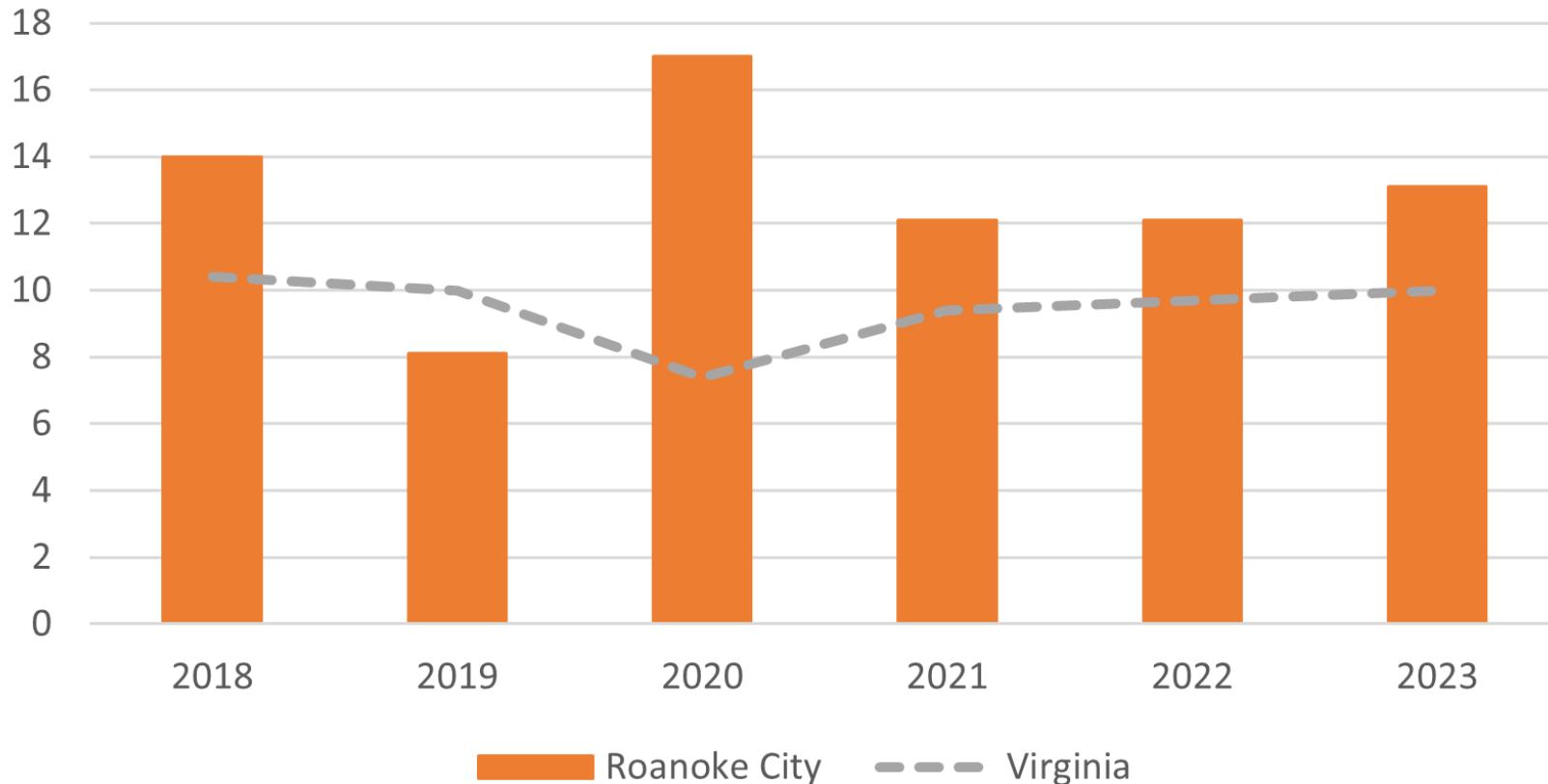
## Neonatal Abstinence Syndrome Rates (NAS), per 1000 Live Births



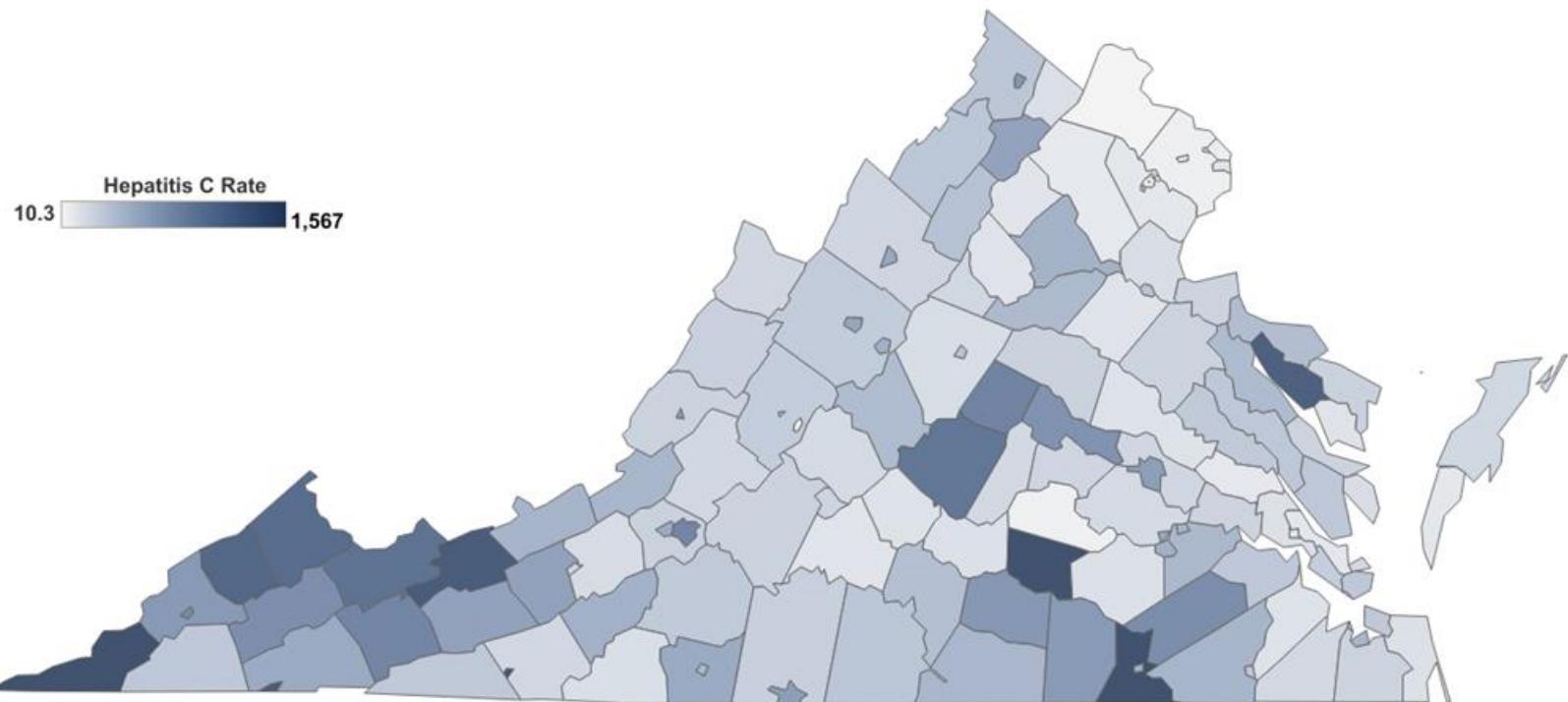
## New HIV Diagnoses by Locality 2023



## Rate of New HIV Diagnoses, per 100K Population

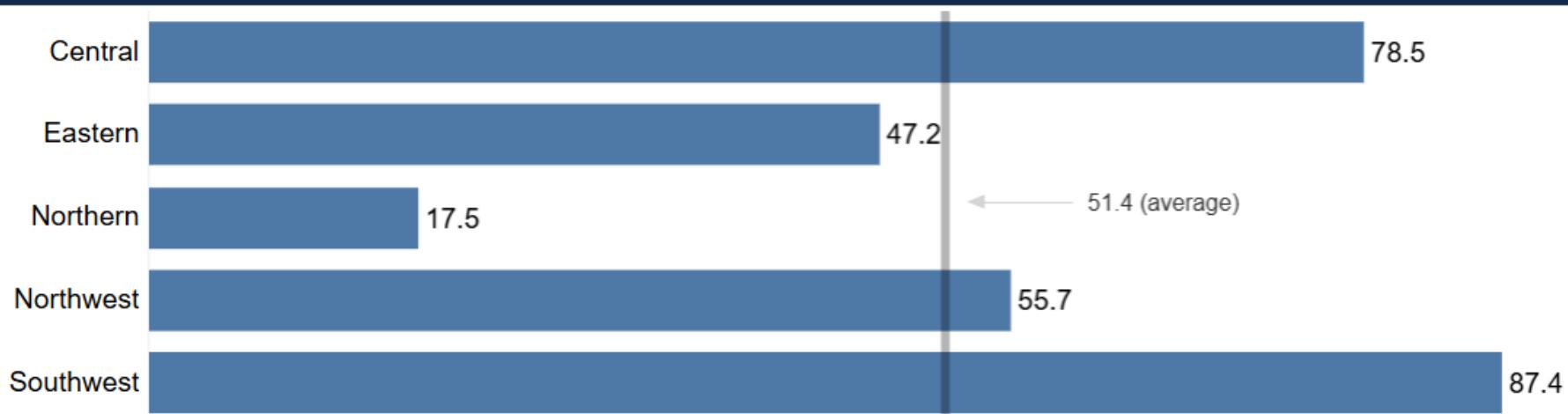


Rate (per 100,000 population) of acute, chronic, and perinatal hepatitis C cases map, by county of residence, Virginia, 2023





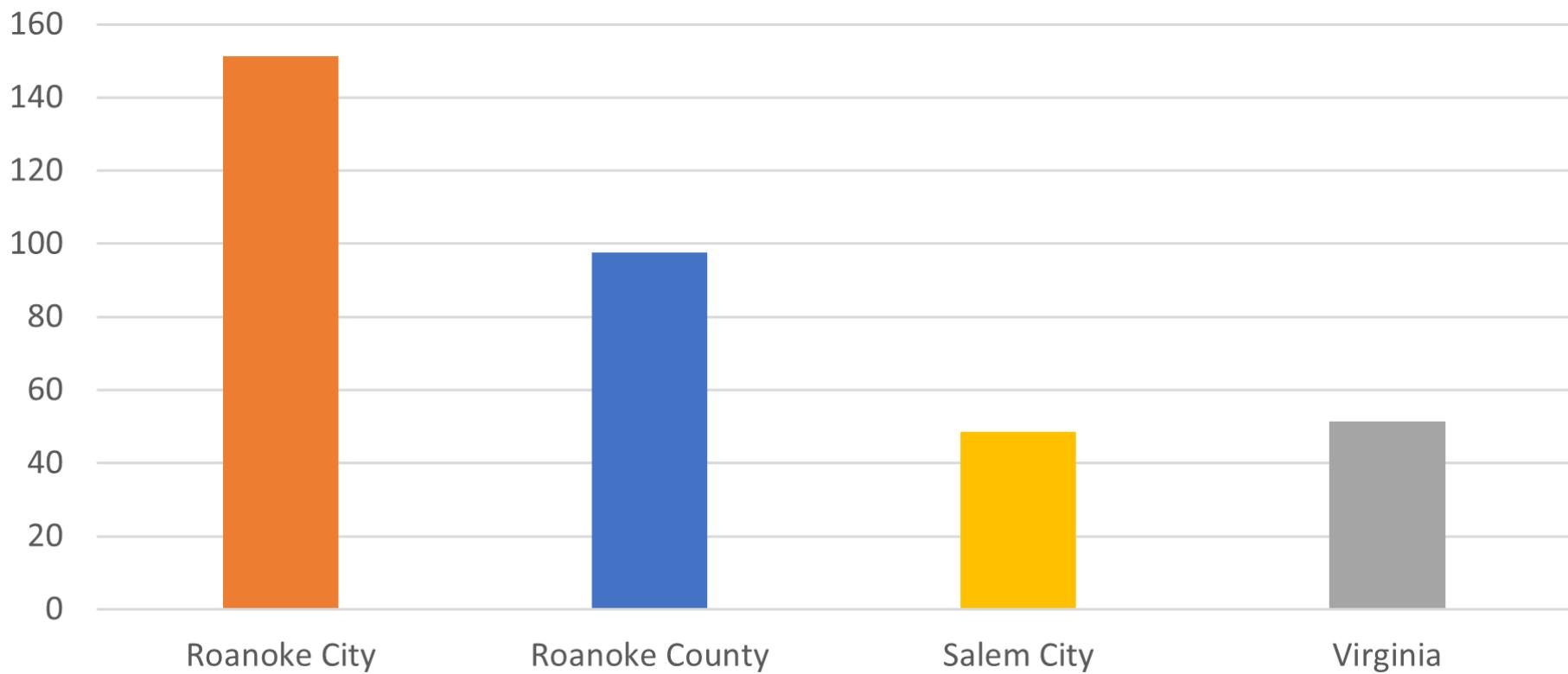
Rate (cases per 100,000 population) of acute, chronic, and perinatal hepatitis C by region of residence, Virginia, 2023



Rate (cases per 100,000 population) of acute, chronic, and perinatal hepatitis C by region of residence, Virginia, 2020-2023



## Acute, Chronic, and Perinatal Hepatitis C Rate, per 100K (2023)



# Key Takeaways

- SWVA and Roanoke Metro see higher than average rates of NAS, Hep C, and HIV when compared to state
- Rate of New HIV infections is holding steady, but relatively low considering other factors
- Rate of NAS has declined overall but ticked up a bit in 2023.
- Despite improvement, SWVA has highest rate of acute/chronic Hep C in state; RMA rates are moderate for region

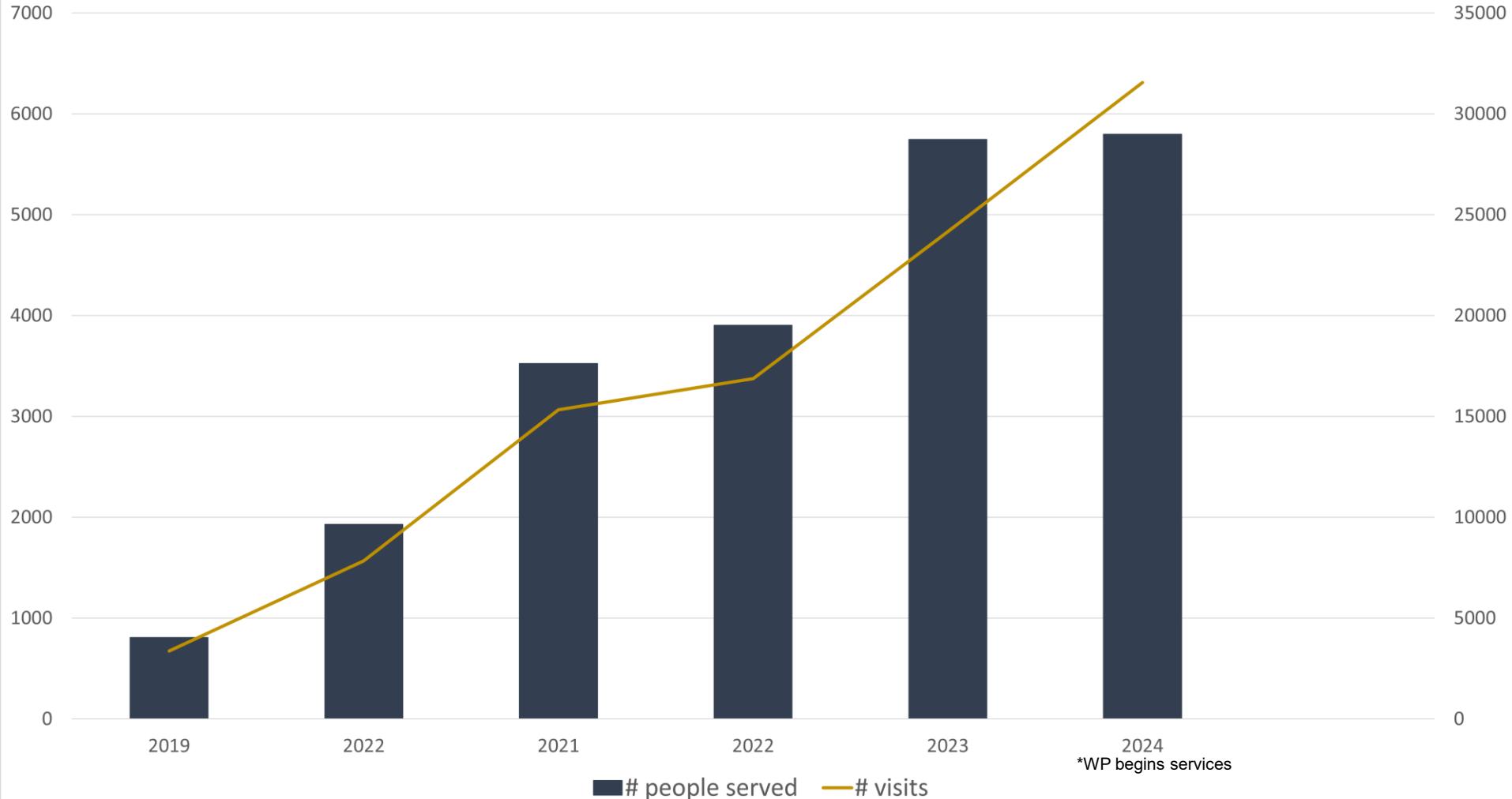


# What's Working: Program Data

# Harm Reduction By The Numbers:



Comprehensive Harm Reduction Clients Served, Roanoke City and West Piedmont Health Districts



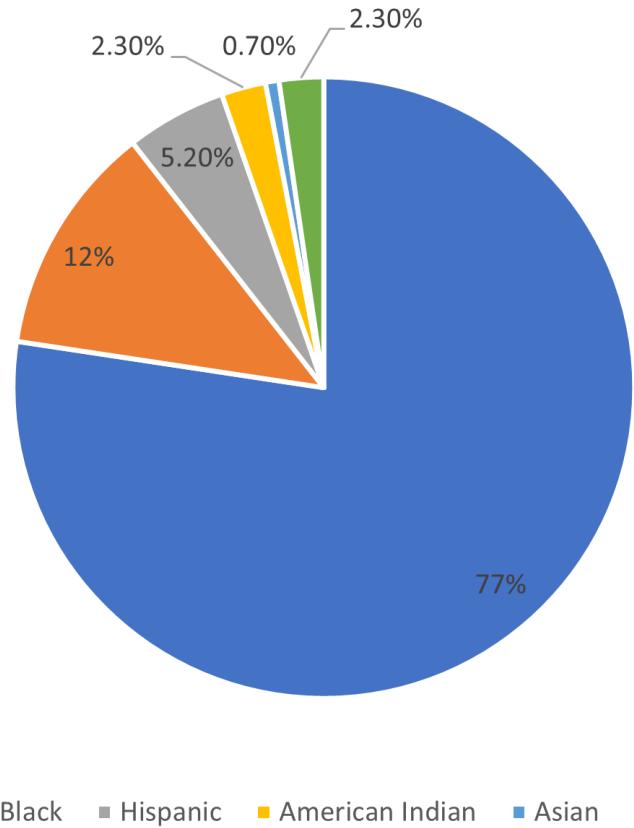
# Locality Race Estimates 2023

Locality	White	Black	Asian	Other	Two+ Races	Hispanic (any race)
Roanoke City	62.3%	24.6%	5.1%	2.6%	5.4%	5.2%
Roanoke County	83.6%	6.7%	2.5%	1.2%	2.1%	3.9%
Salem City	82%	8%	2%	1%	2%	4%
Patrick County	89%	5%	0%	2%	3%	3%
Henry County	68%	22%	0%	2%	7%	7%
Martinsville City	42%	44%	1%	1%	8%	8%
Franklin County	86%	8%	1%	2%	4%	4%
► AVERAGE	73.7%	16.6%	1.5%	1.7%	4.5%	5.2%

Based on 2023 Population Estimates

# Harm Reduction By Race (2024)

CHR Program Participants by Race/Ethnicity, Roanoke + West Piedmont Health Districts (2024)



■ White ■ Black ■ Hispanic ■ American Indian ■ Asian ■ Other/Mixed

## RCAHD Naloxone and Test Strips Total (2024)

