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HEALTH DISTRICTS

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



# Mission of Peaks and Valleys



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- *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.



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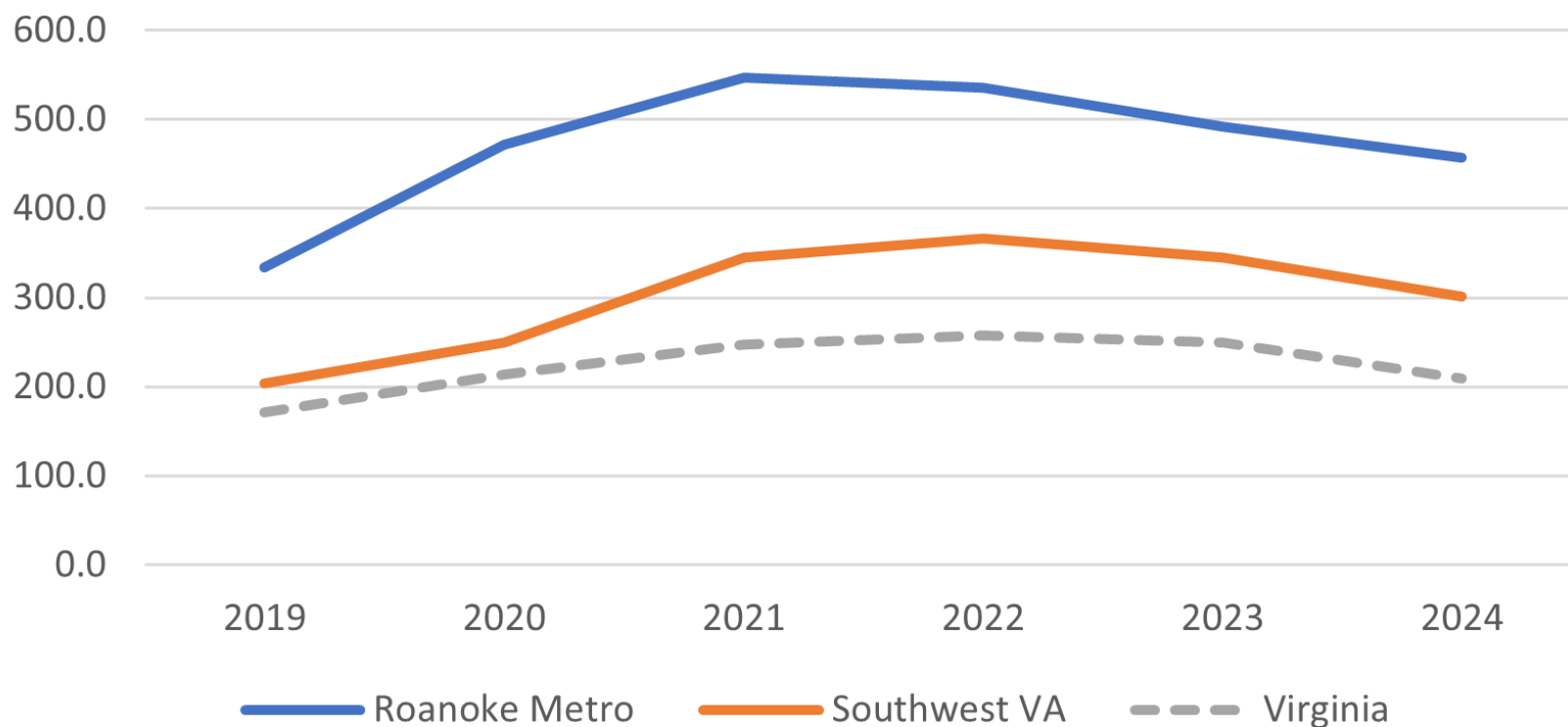
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# Emergency Department Visits

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

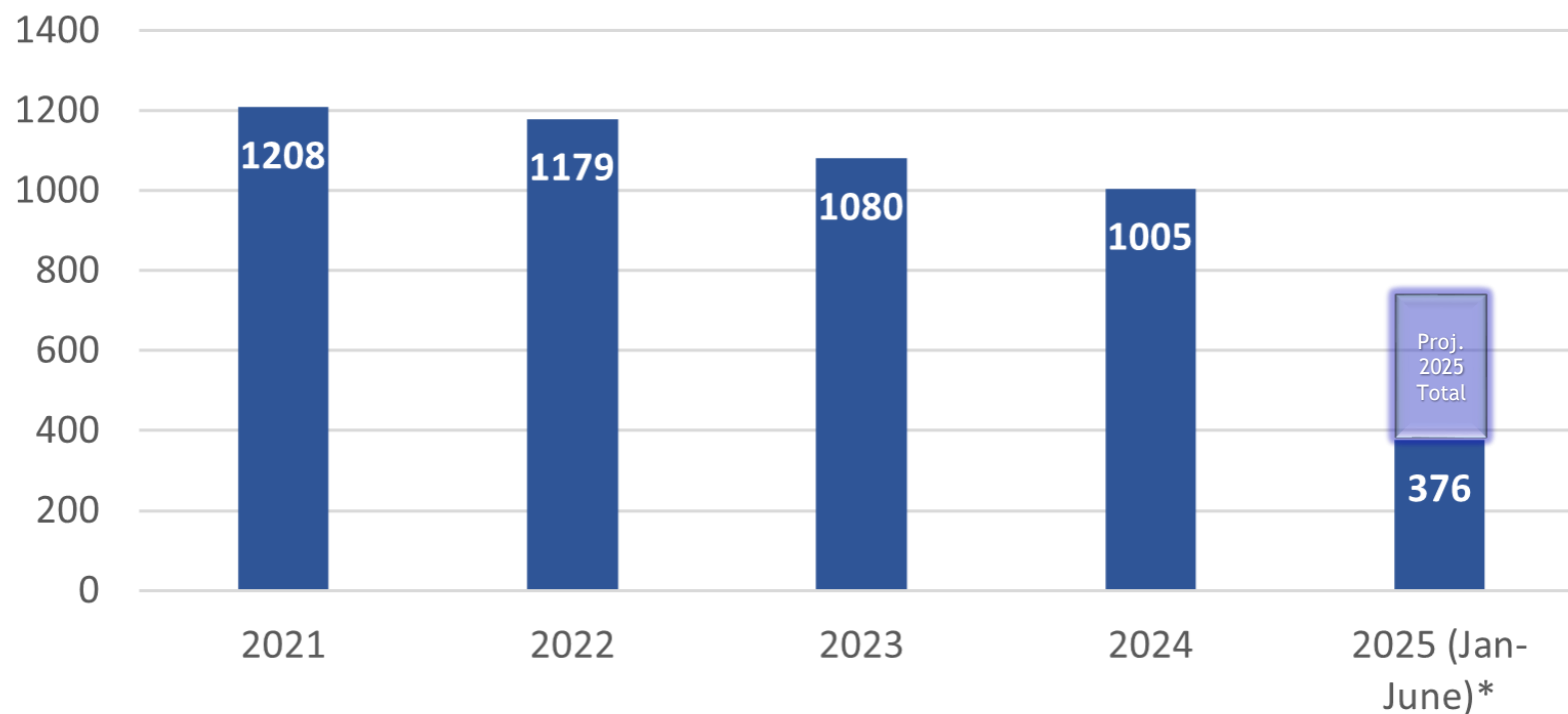
## ↓ ED Visits for Overdose Declining Since 2021

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





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





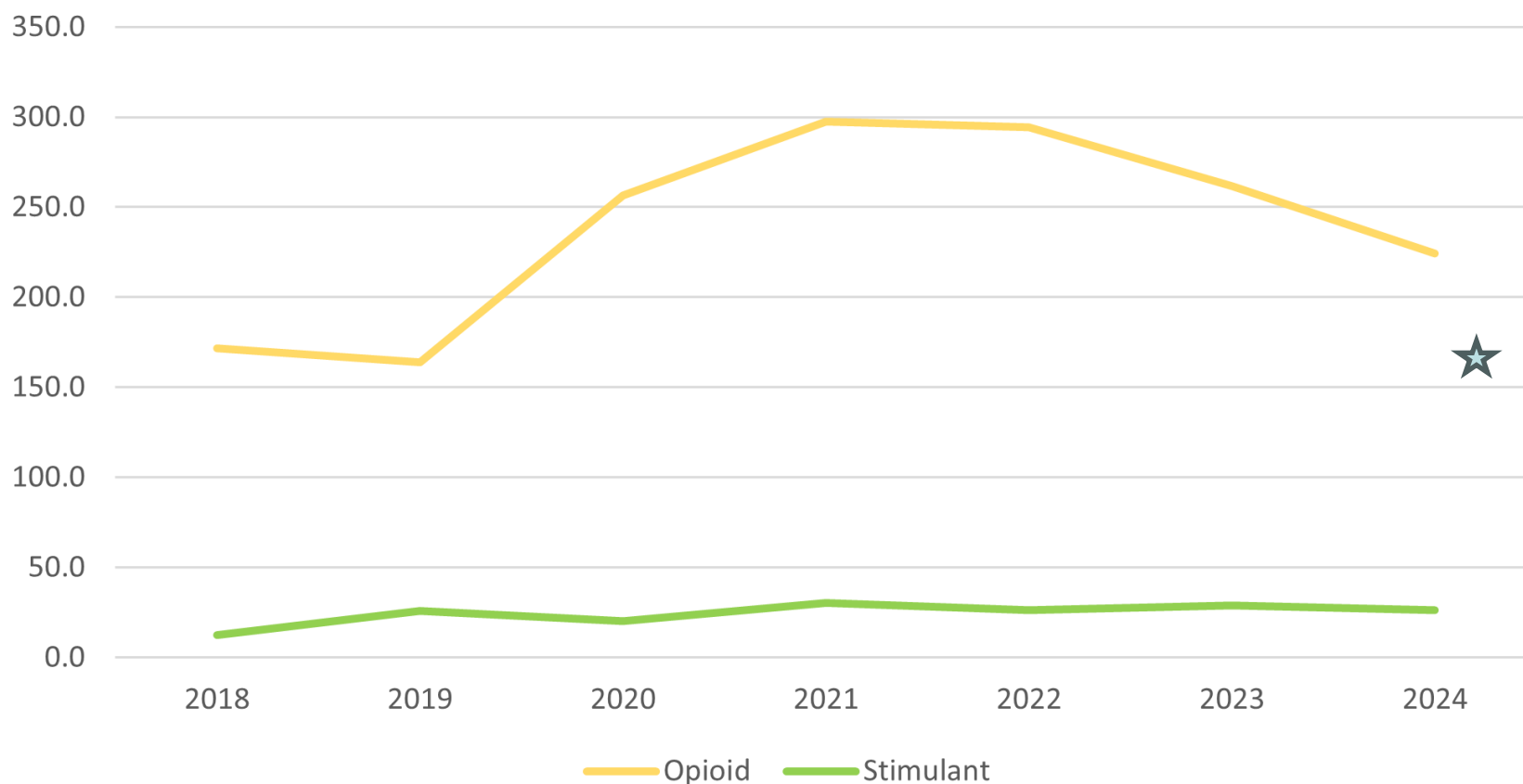
# Opioid-Related ED Visits Decline, Stimulant-Related Visits Hold Steady



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



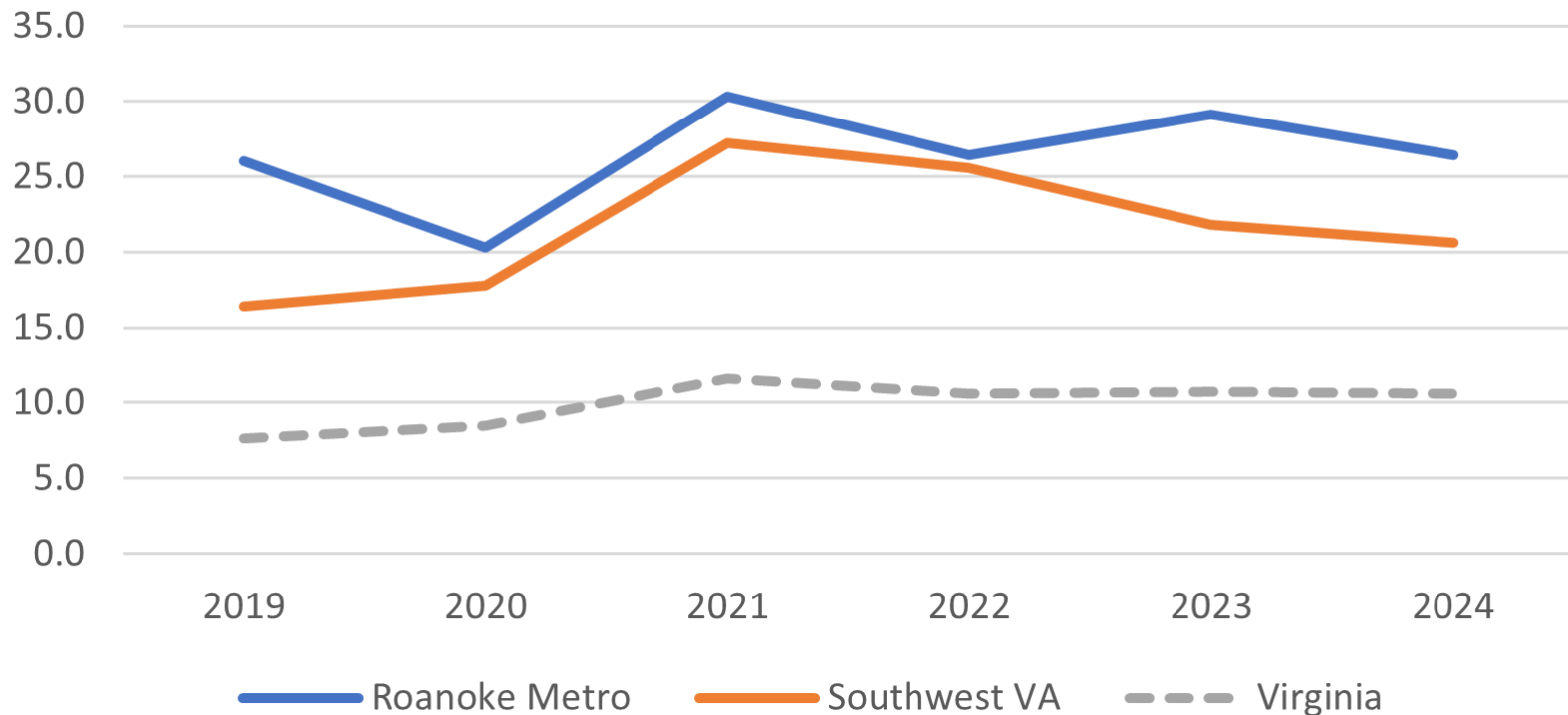
# ED Visits for Stimulants: Slight Decline in 2024



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



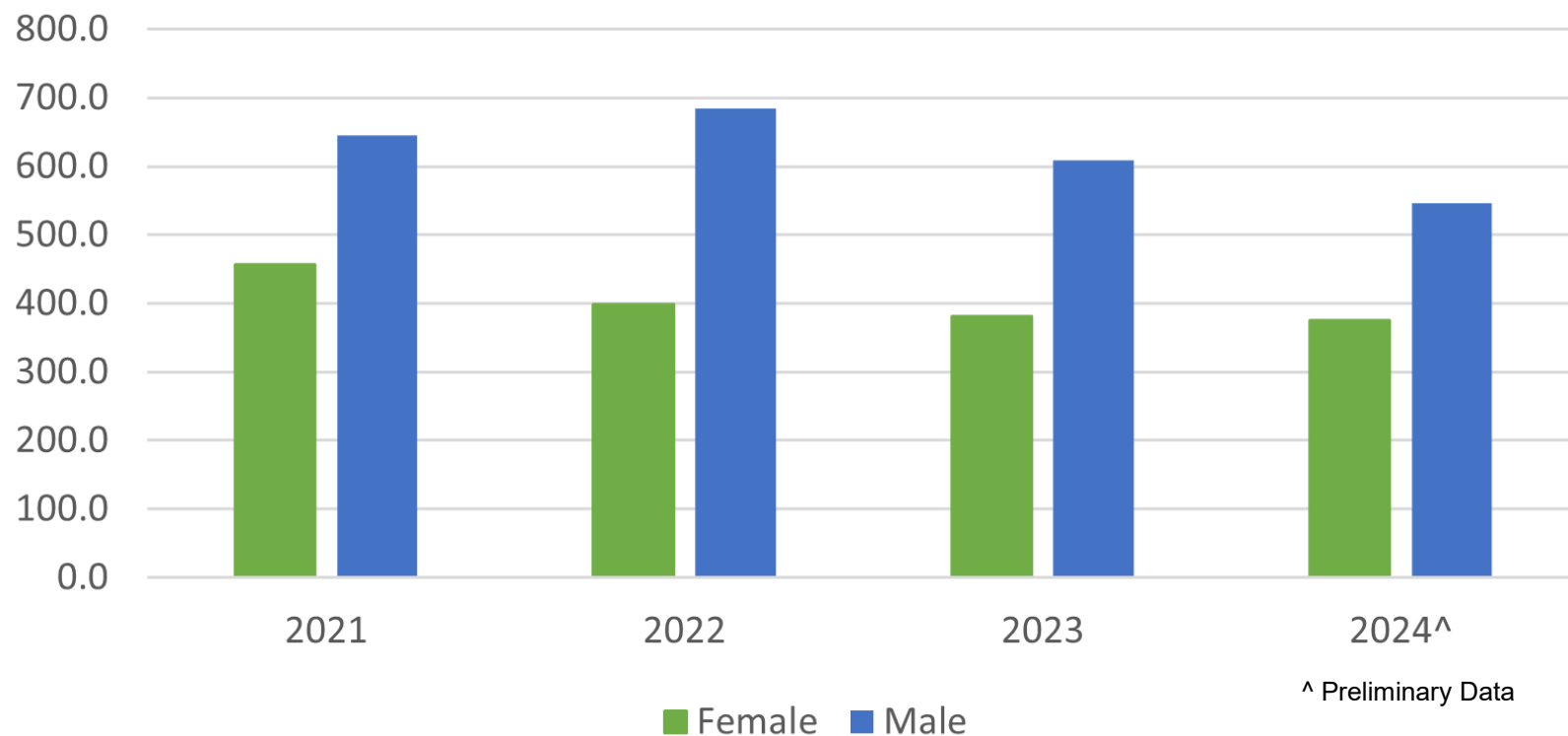
# ED Visits for ODs: Women's Decline Stagnates



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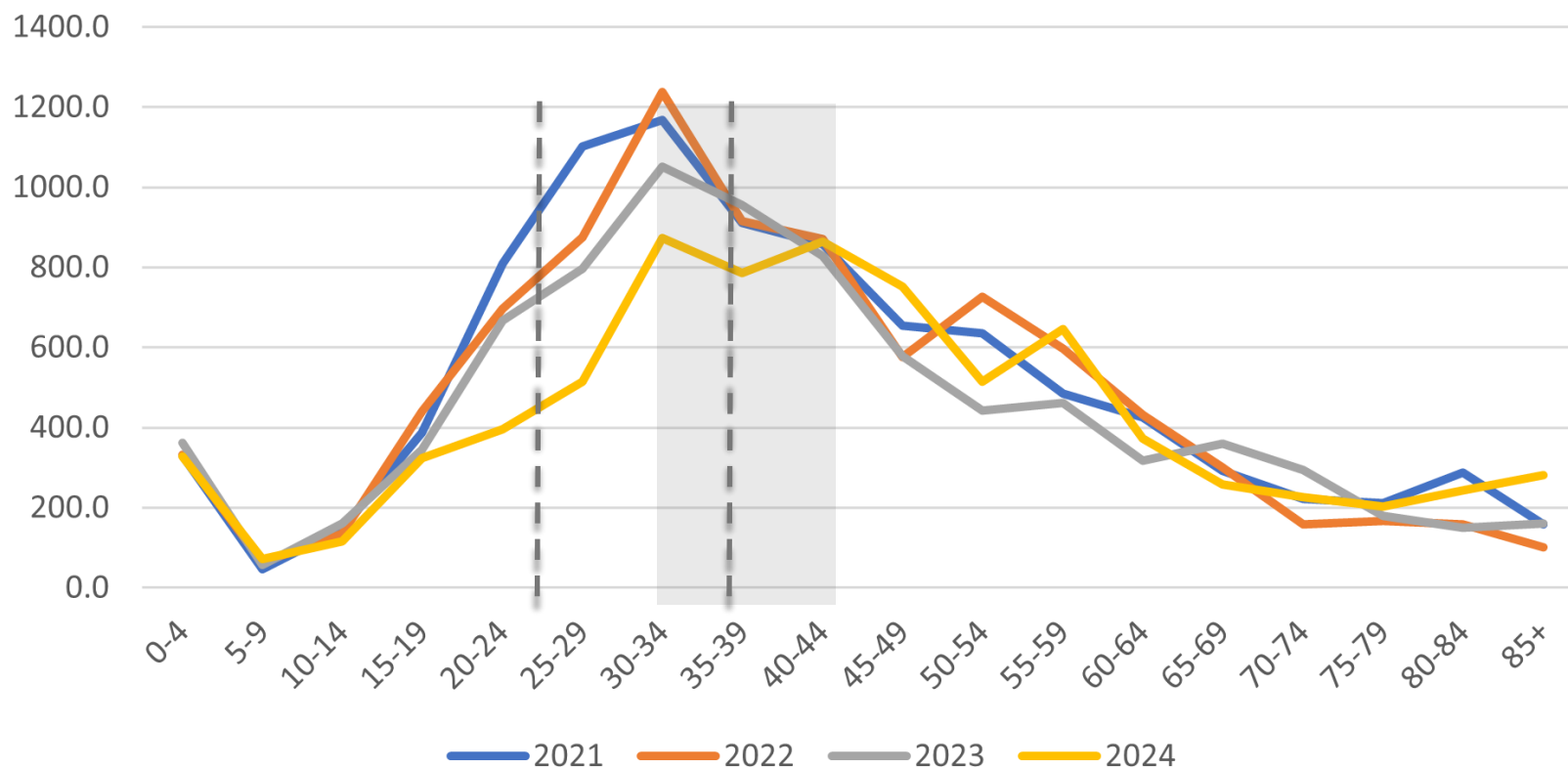
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## Emergency Department Visits by Sex, Rate per 100K, Roanoke Metro



# 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)



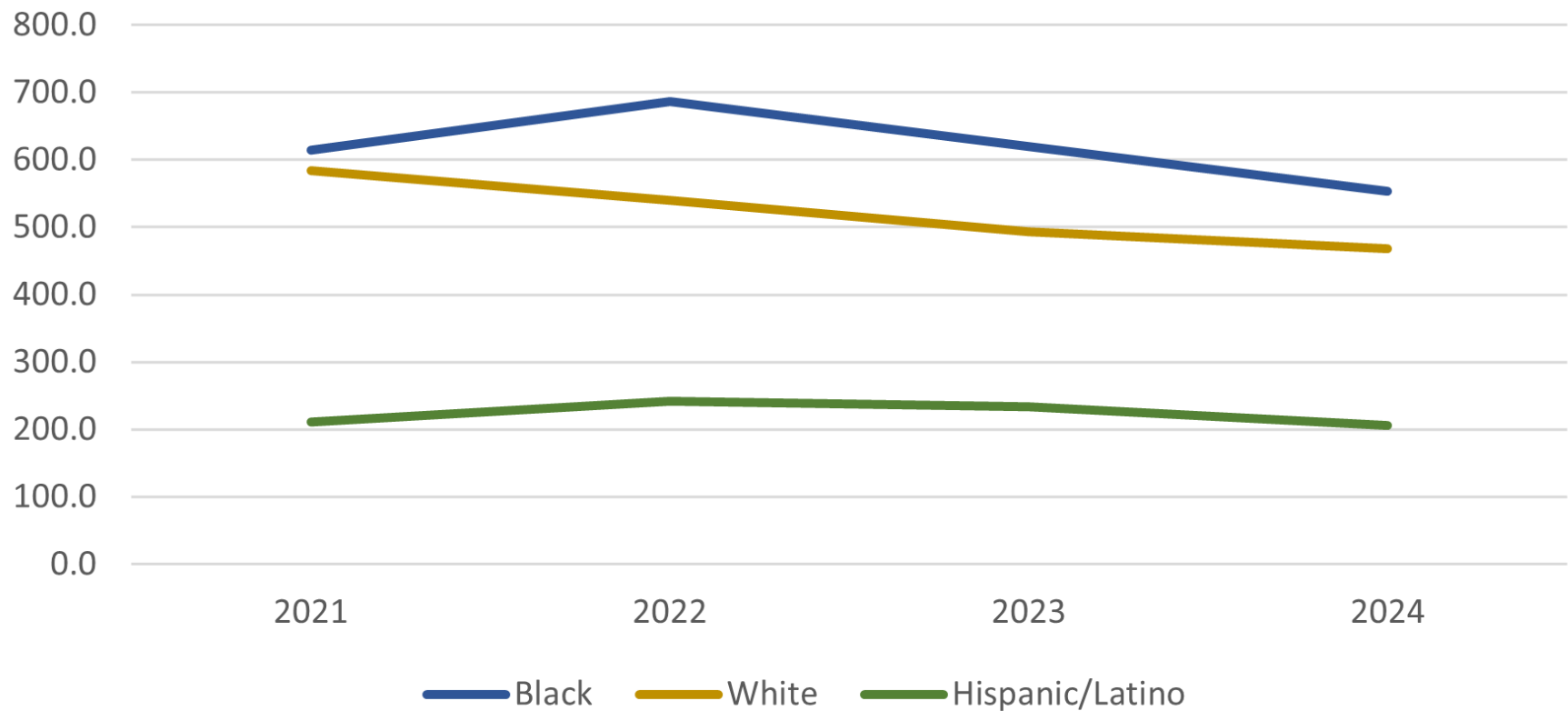
# Black Individuals Visit ED for OD at Higher Rate than Others



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## 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



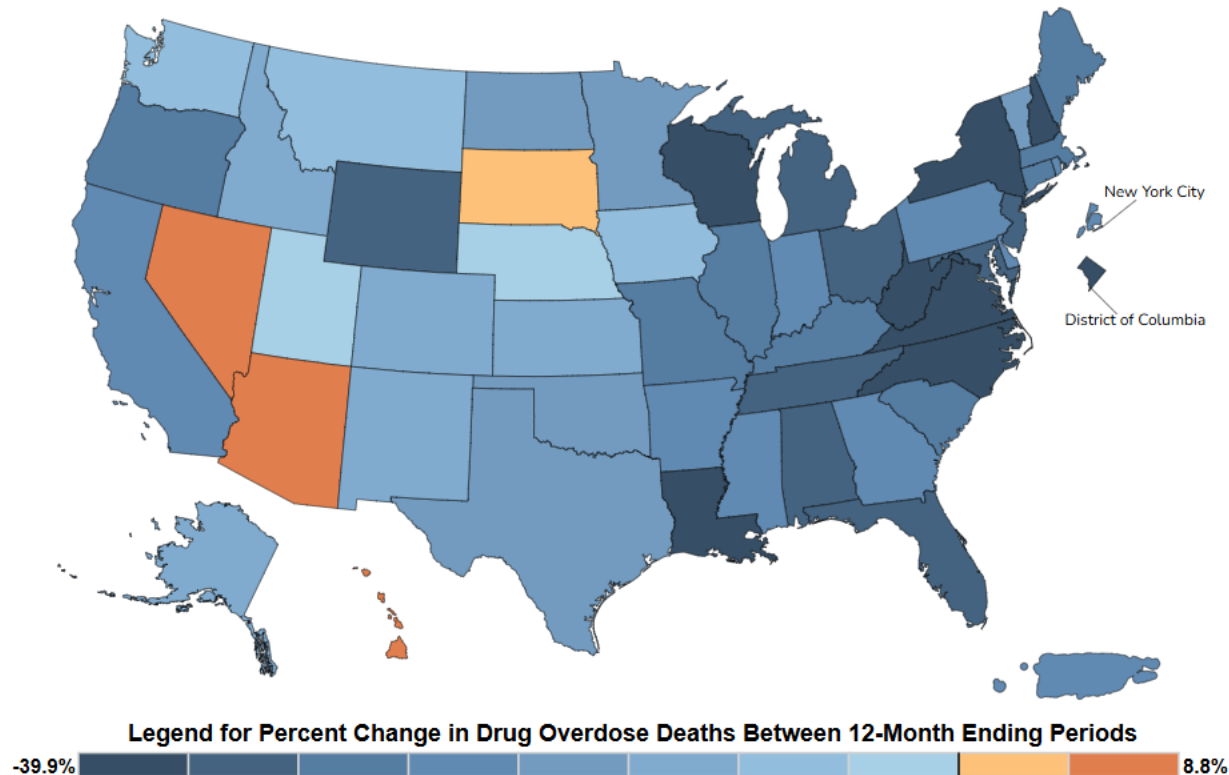
# Fatal ODs Decrease Across Most of the US



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



Select predicted or reported number of deaths

☒ Predicted

☐ Reported

Percent Change for  
United States

-24.5





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



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| 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%              |

**Top  
10**

Roanoke  
→

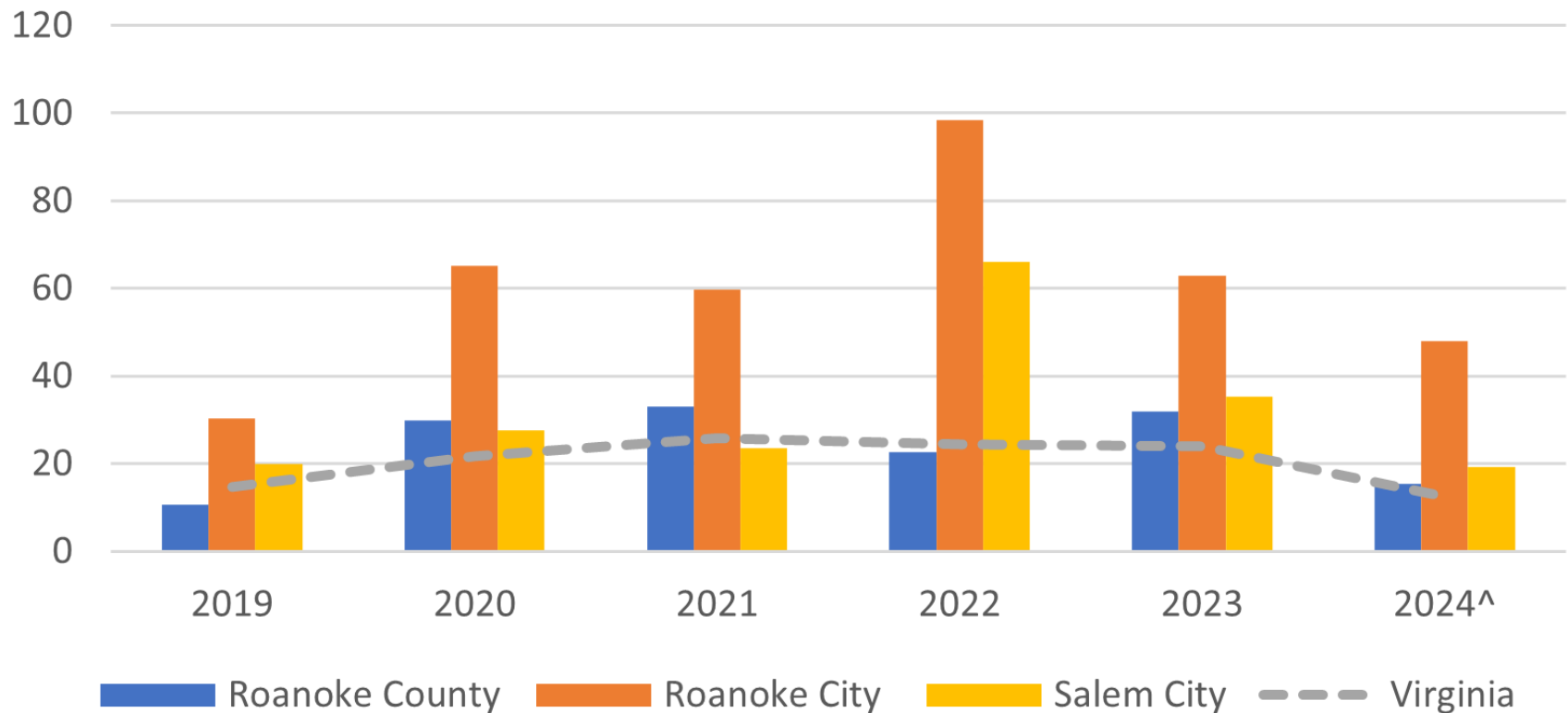
# Opioid-Related Fatalities Decline Across RMA



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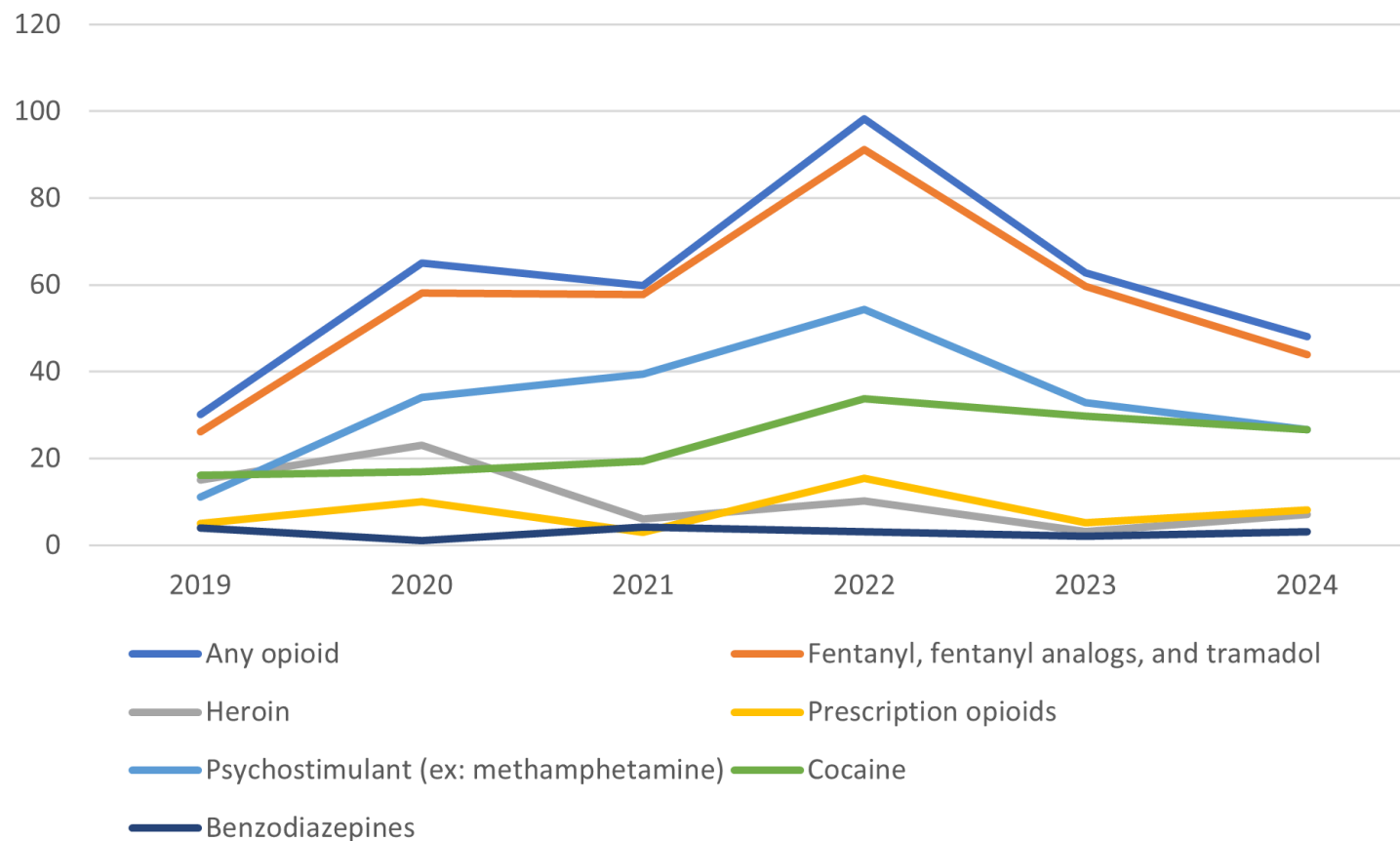
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## Rate of Opioid-Related Overdose Fatalities, per 100K, by Locality

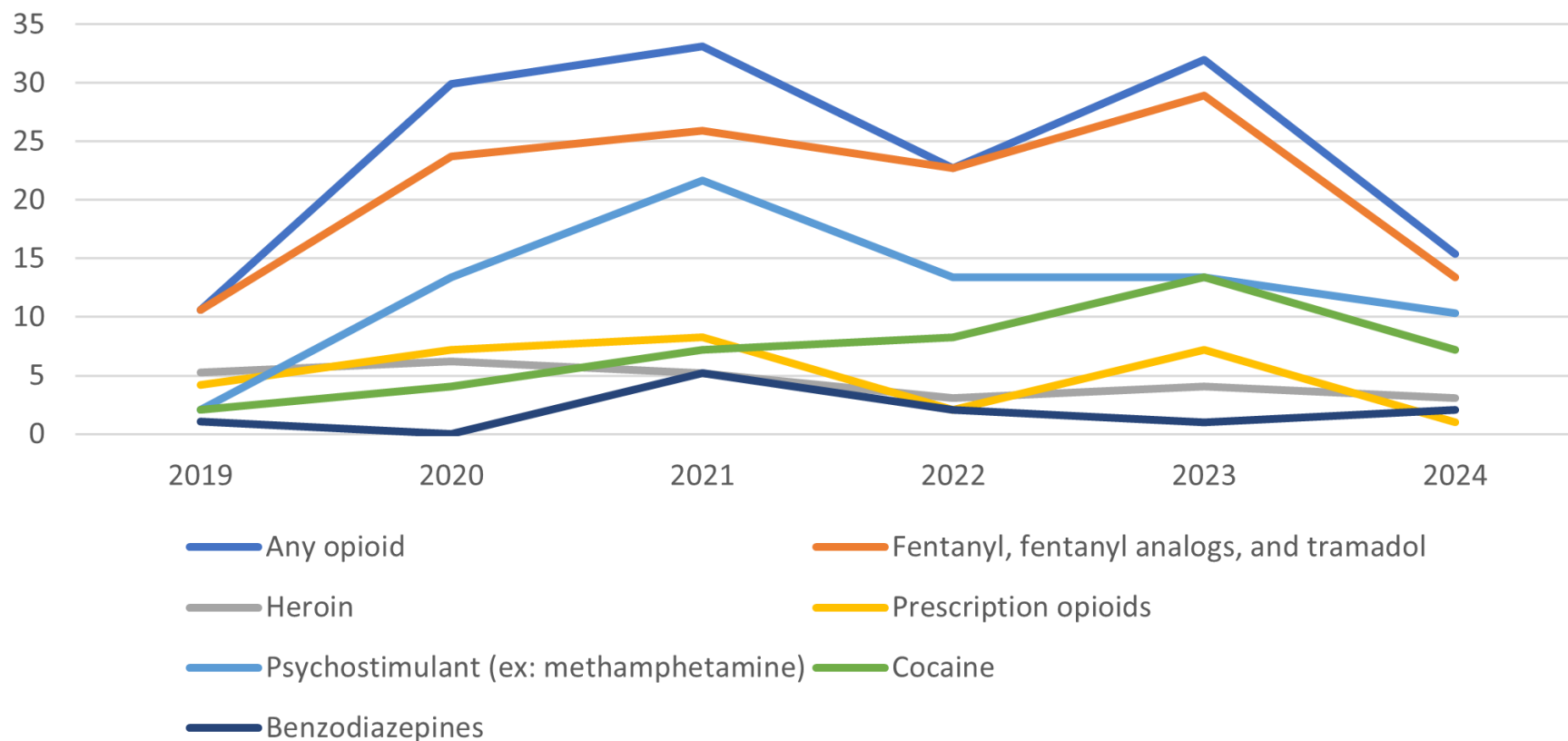




## Rate of Overdose Fatalities by Drug Class, Per 100K, Roanoke City

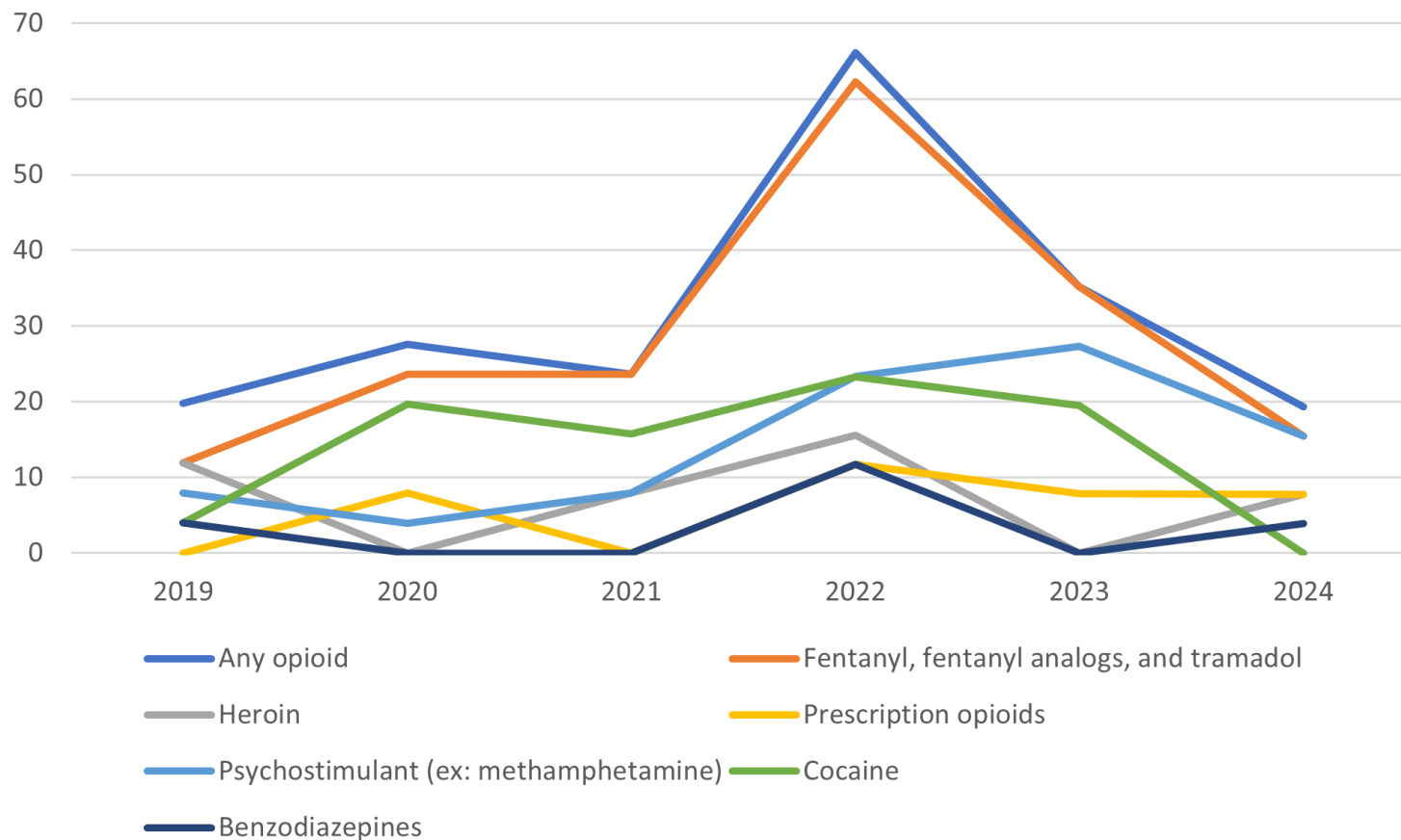


## Rate of Overdose Fatalities by Drug Class, Per 100K Population, Roanoke County





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

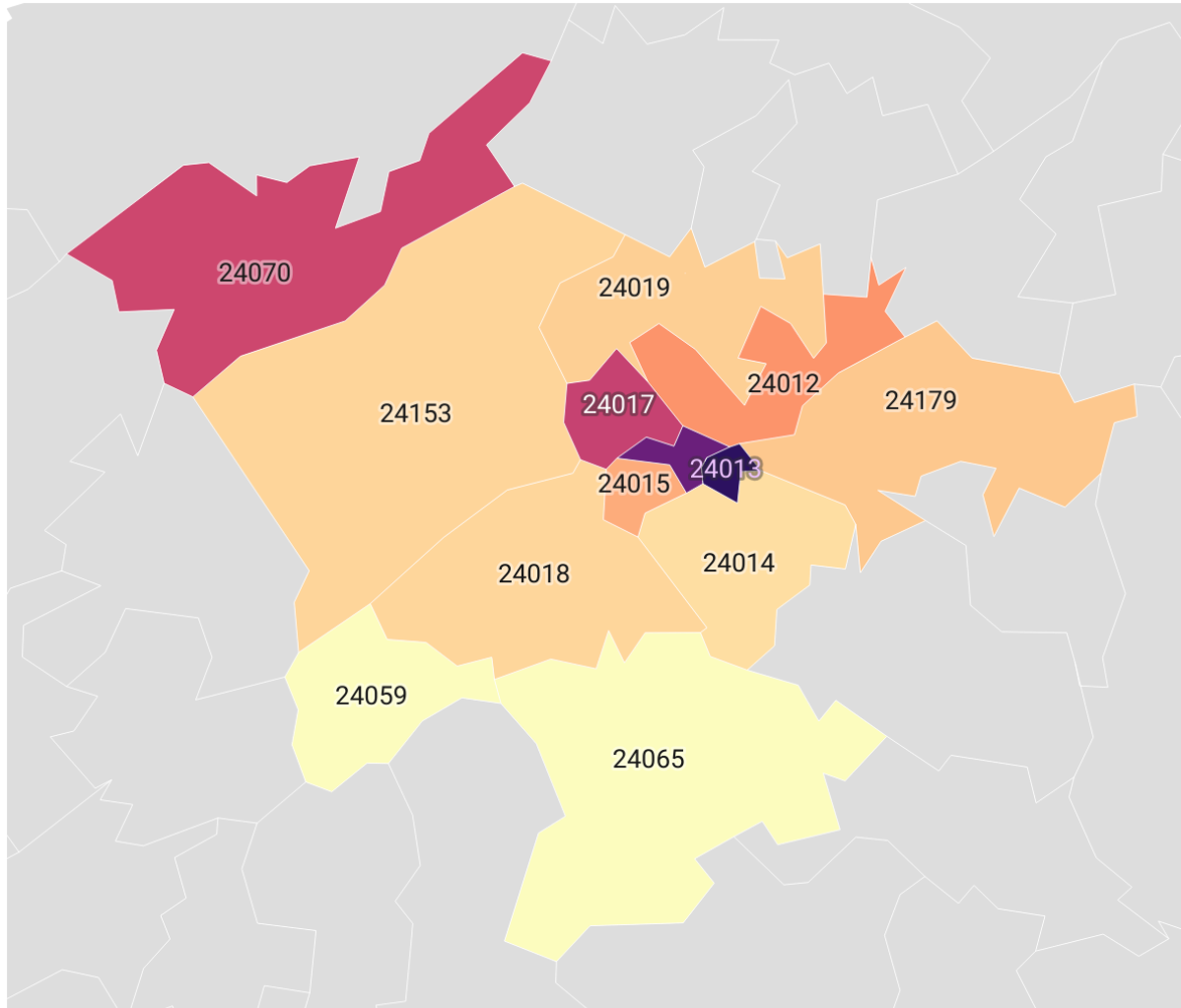


# Overdose Fatalities by Victim's Zip Code, Rate Per 100K Population, Roanoke Metro (2024)



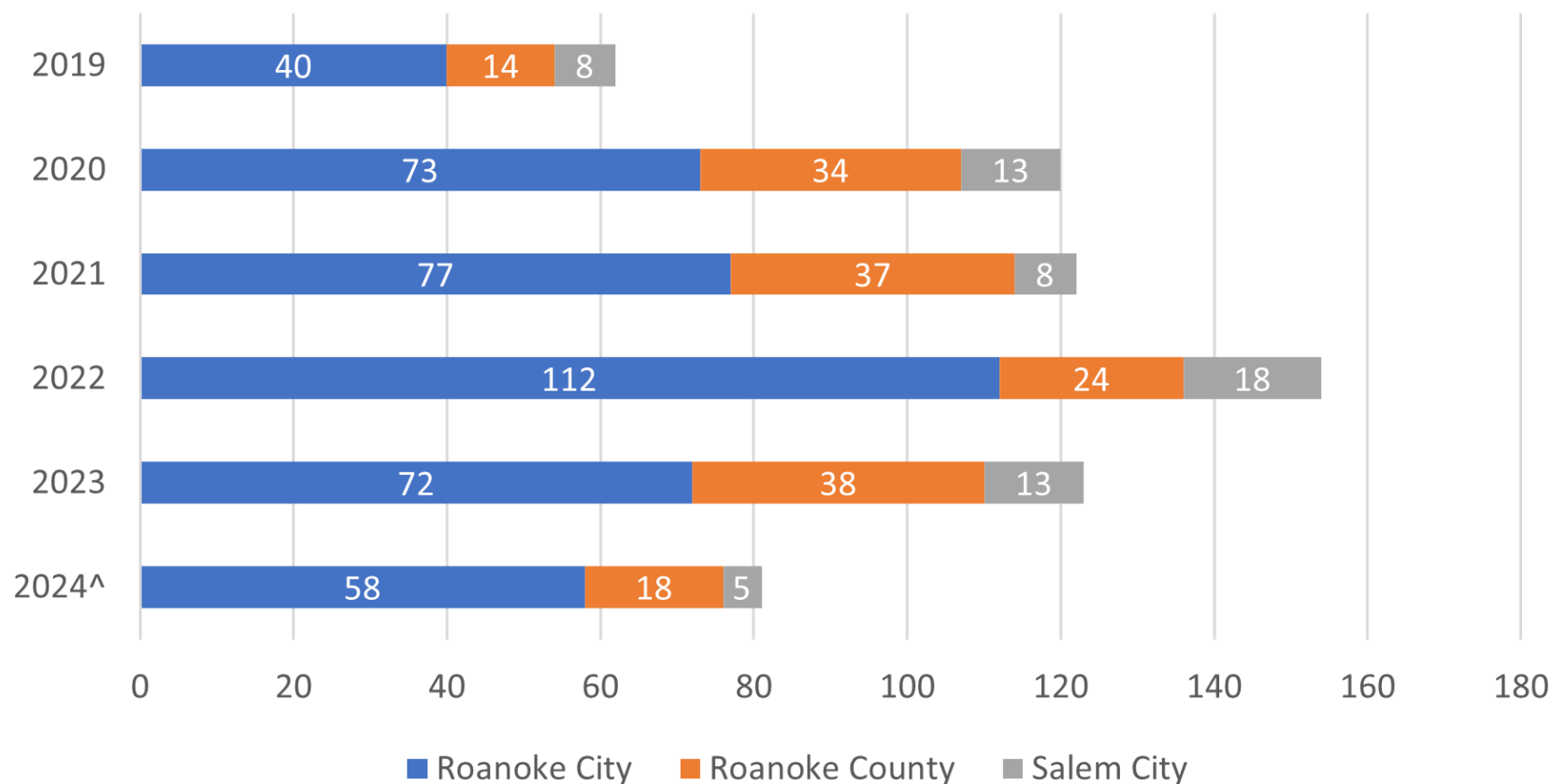
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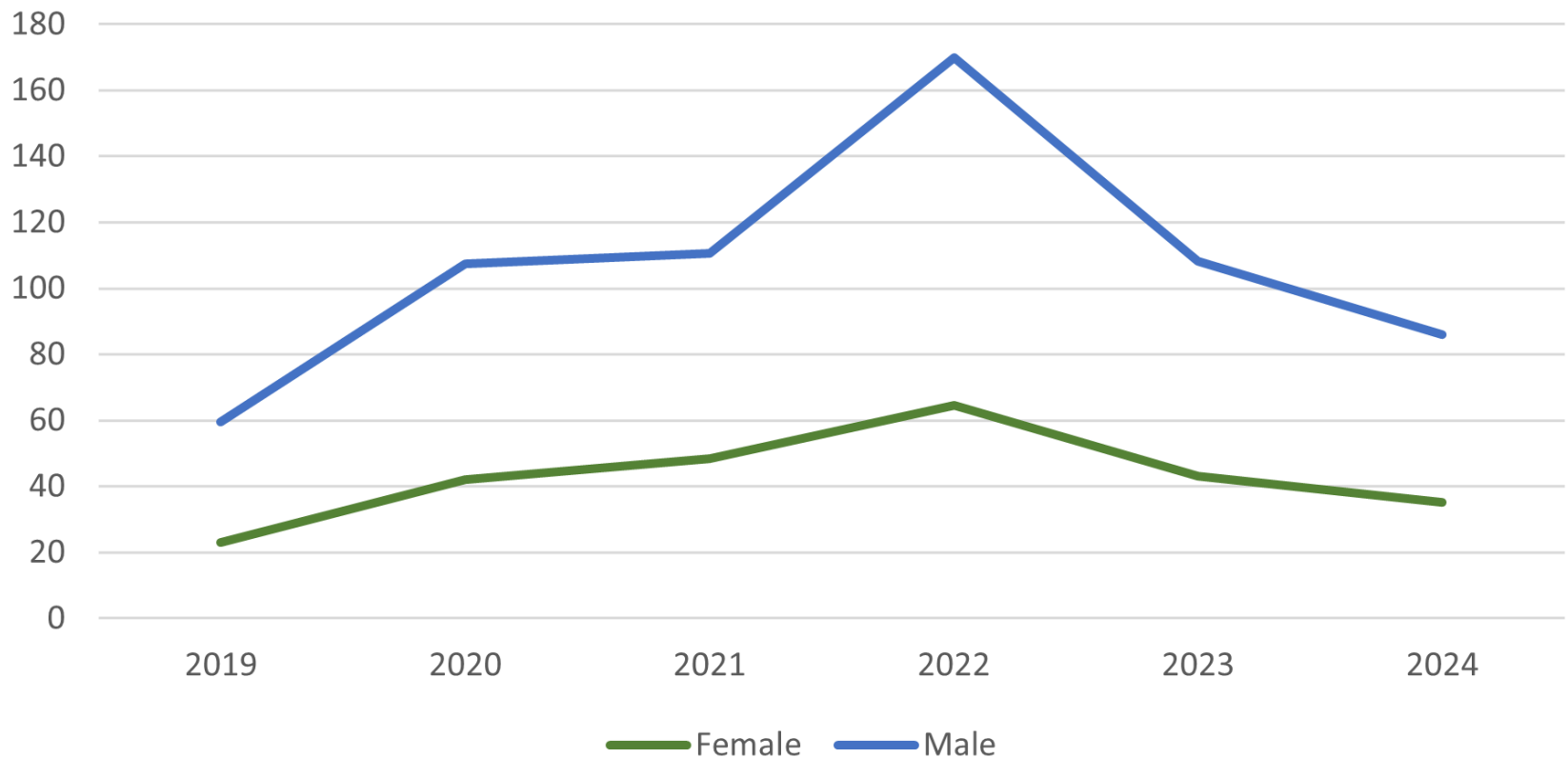


## Number of Overdose Fatalities by Locality, Roanoke Metro



# Men Continue to Die of Overdose at Higher Rates

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

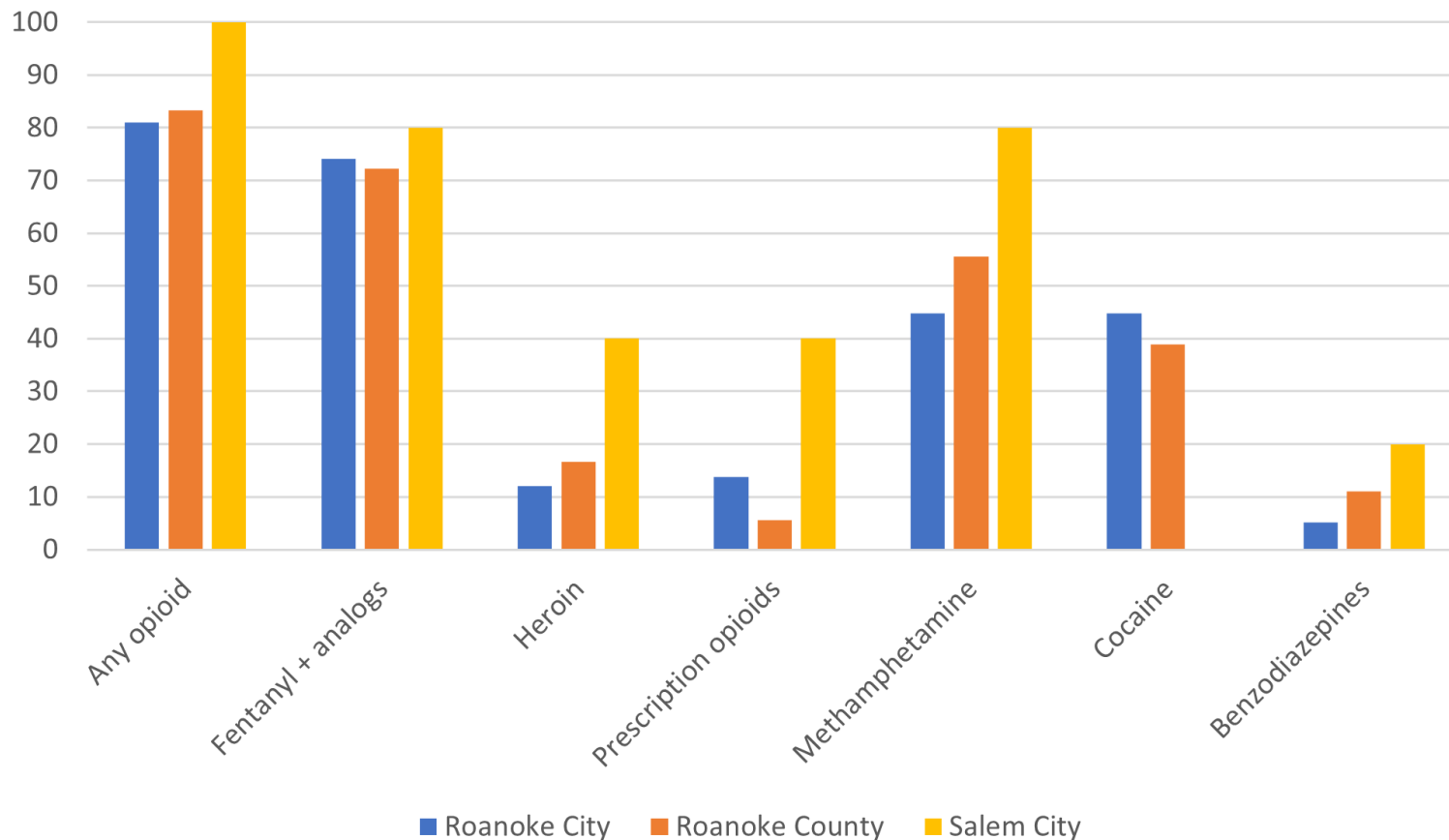






## Percent Overdose Fatalities by Drug Class, 2024^

OC



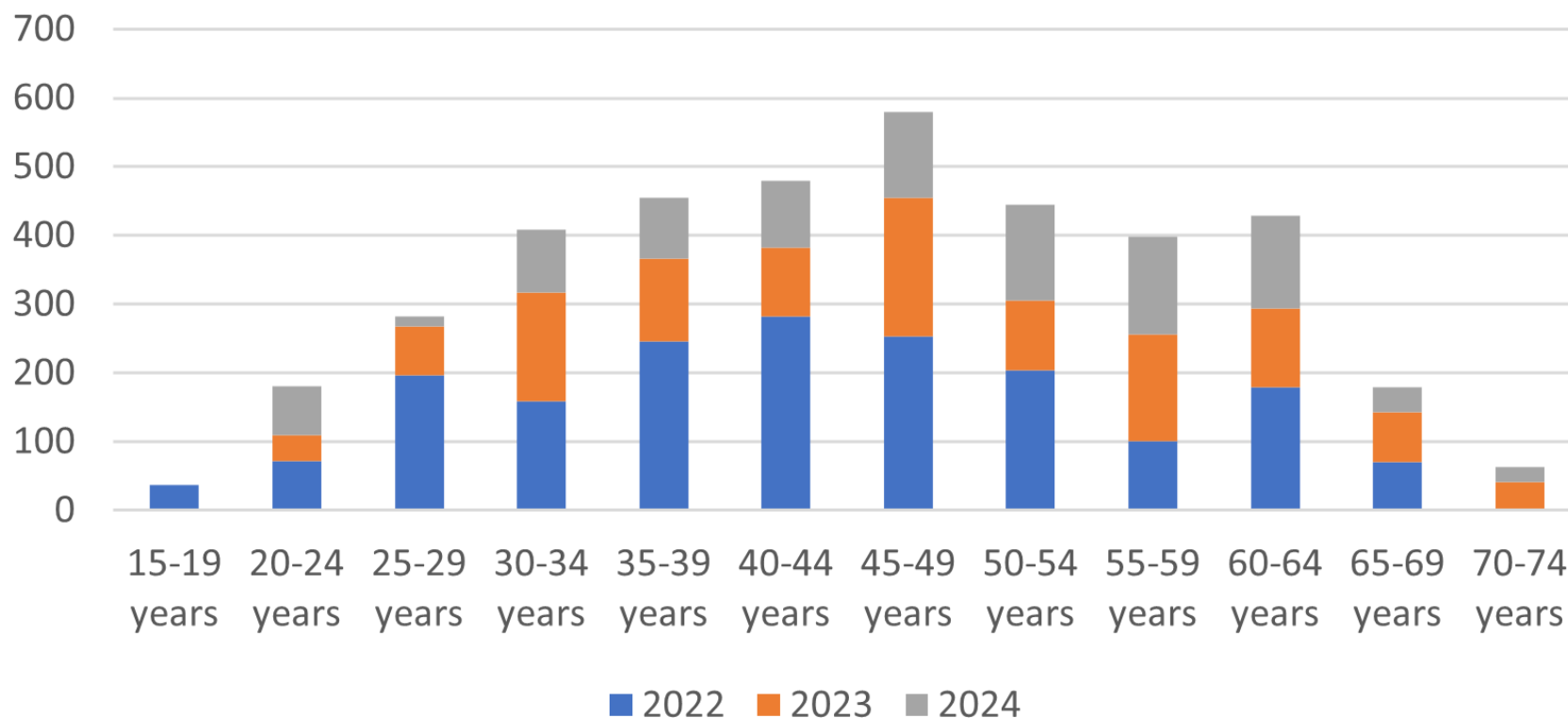
# Overdose Fatalities Now Peak Between 45-64



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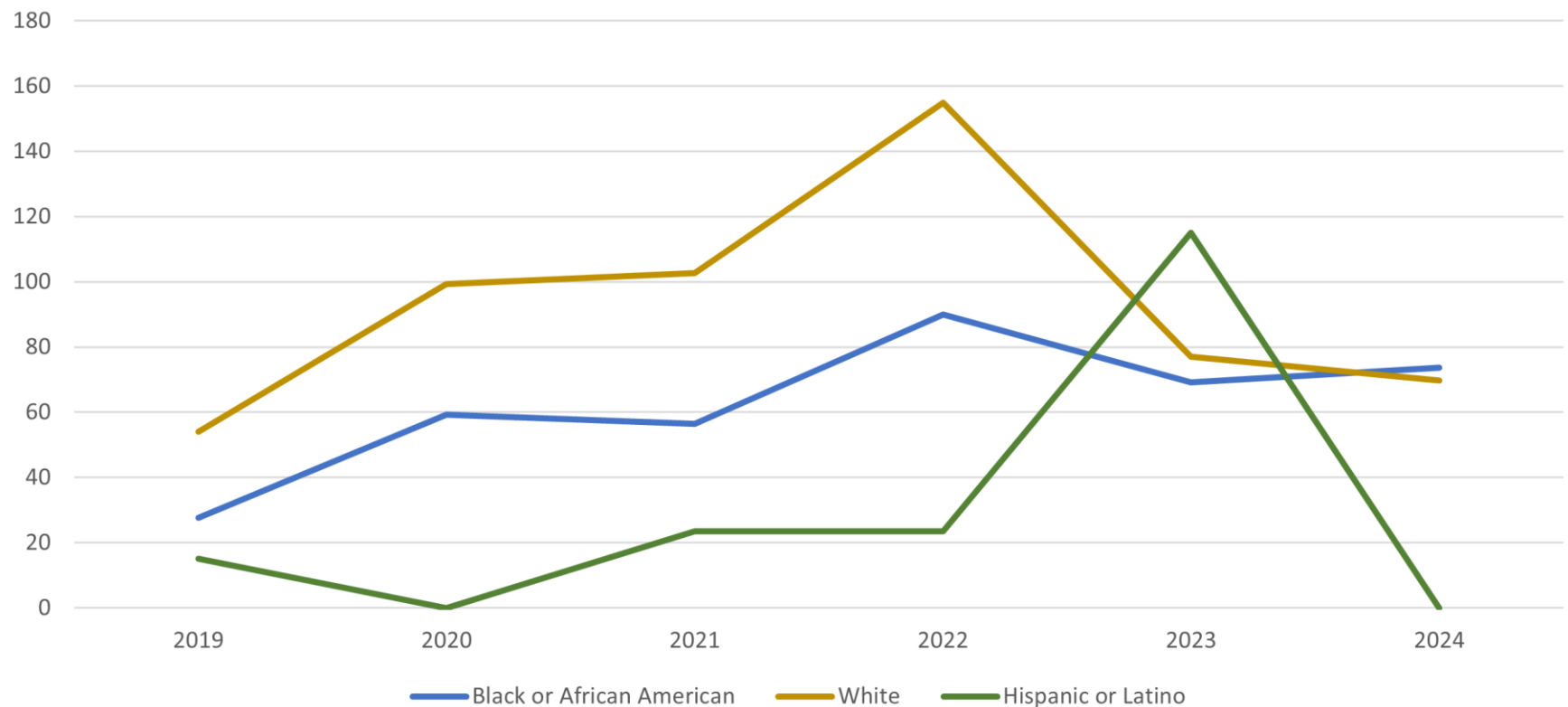
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## Rate of Overdose Fatalities by Age Group, per 100K Population, Roanoke City



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

Rate of Overdose Fatalities by Race/Ethnicity, Per 100K Population, Roanoke City



## 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



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

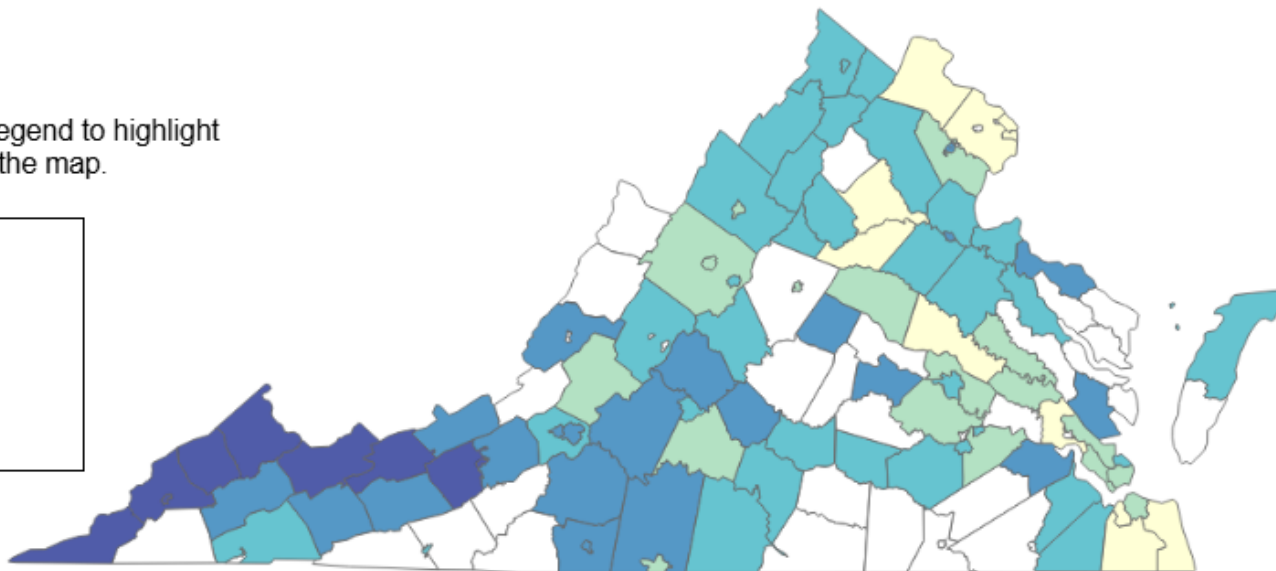
Neonatal Abstinence Syndrome (NAS) rate per 1,000  
birth hospitalizations

Hover over legend to highlight  
localities on the map.

State Rate

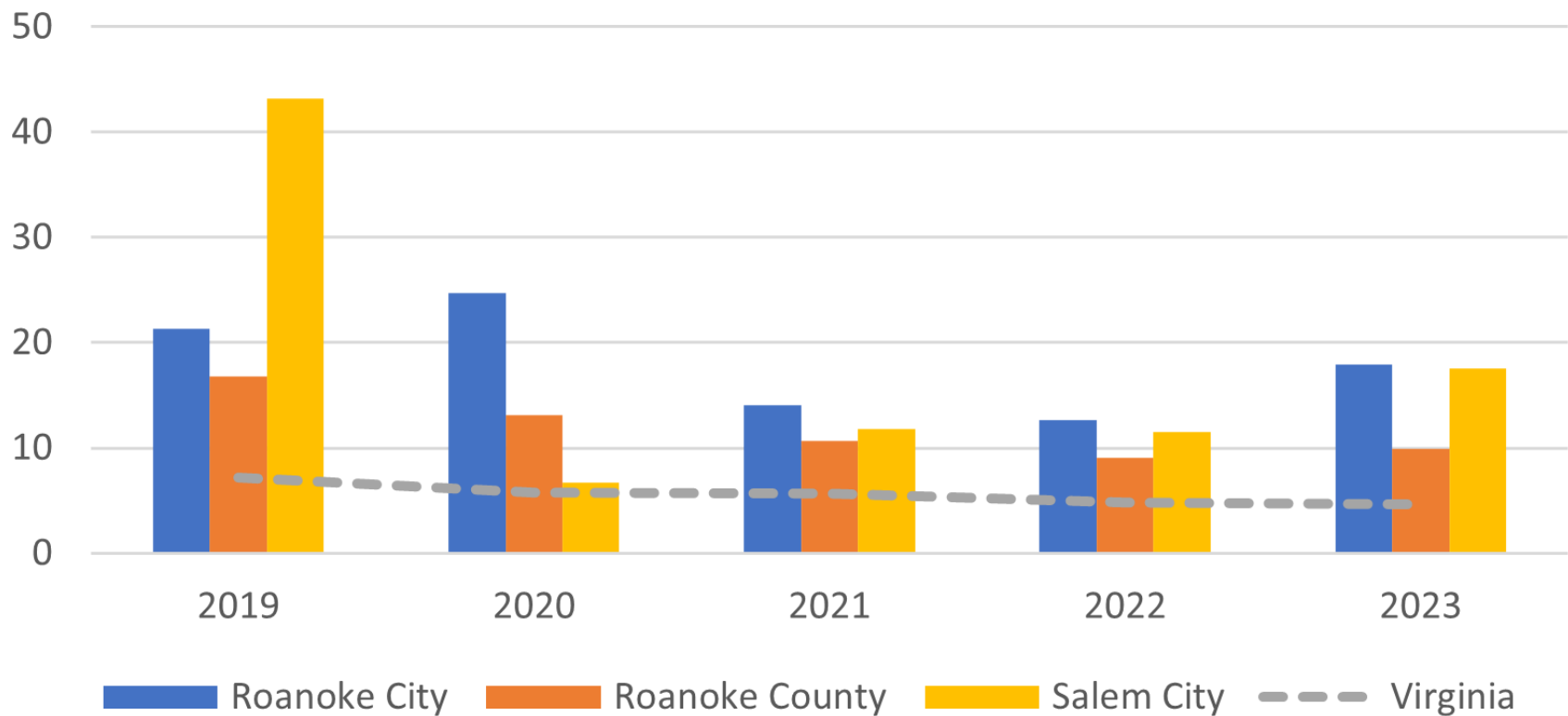
**4.6**

per 1,000 birth  
hospitalizations



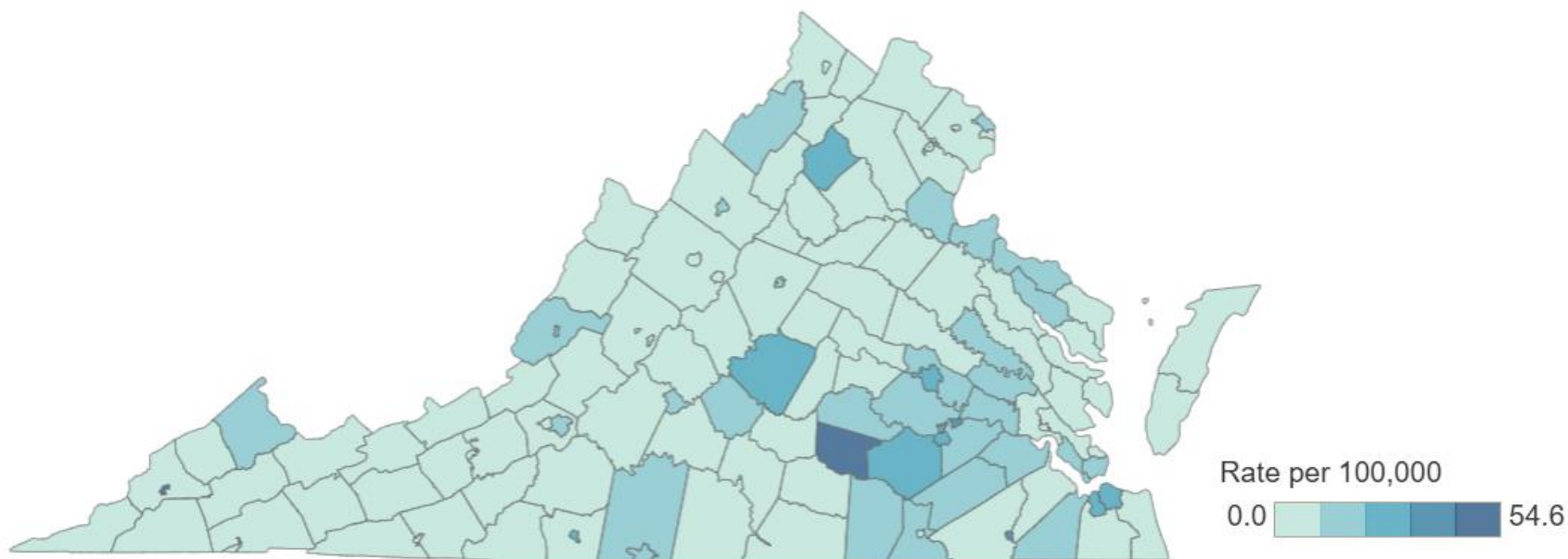


## Neonatal Abstinence Syndrome Rates (NAS), per 1000 Live Births





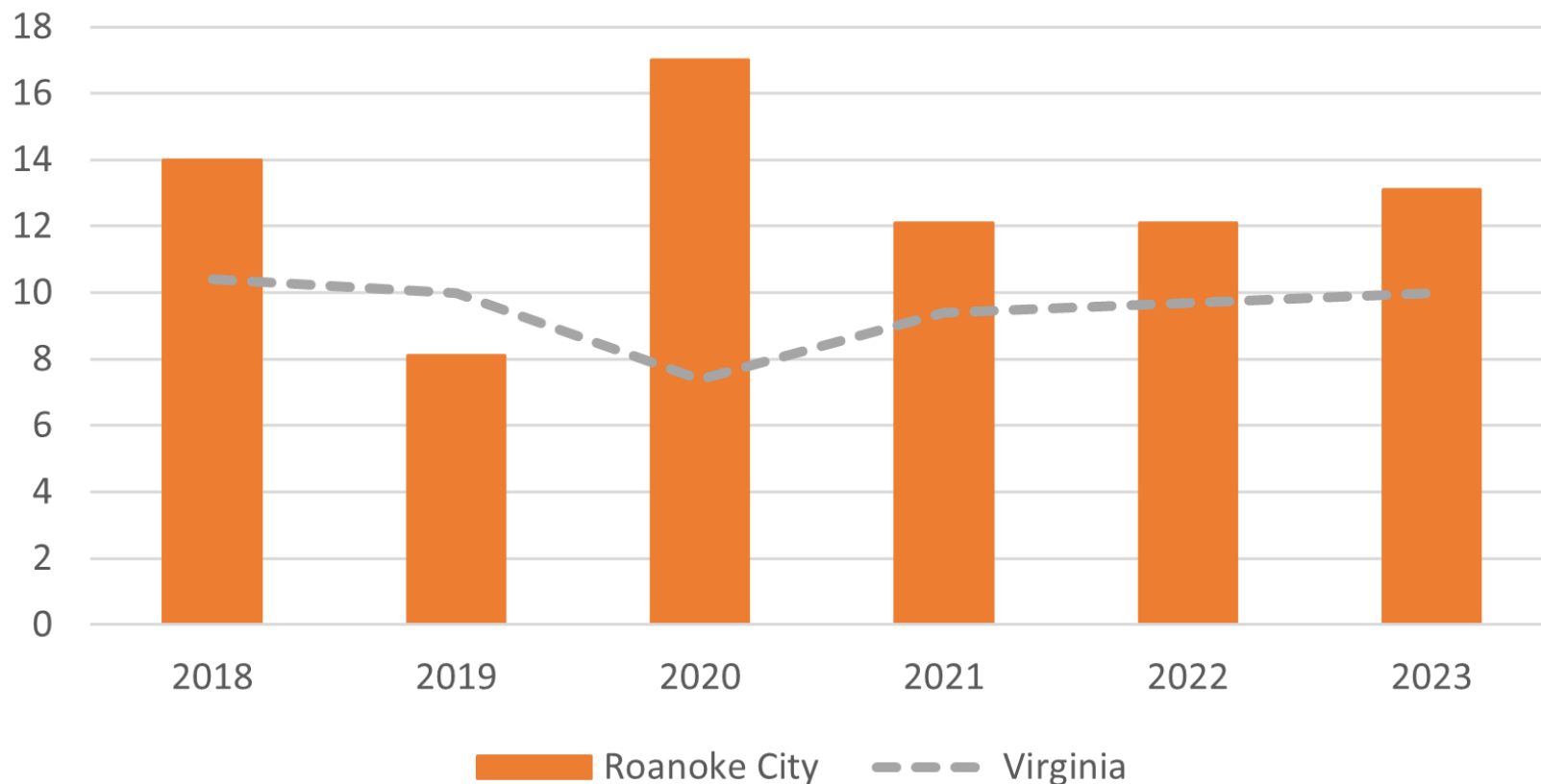
## New HIV Diagnoses by Locality 2023





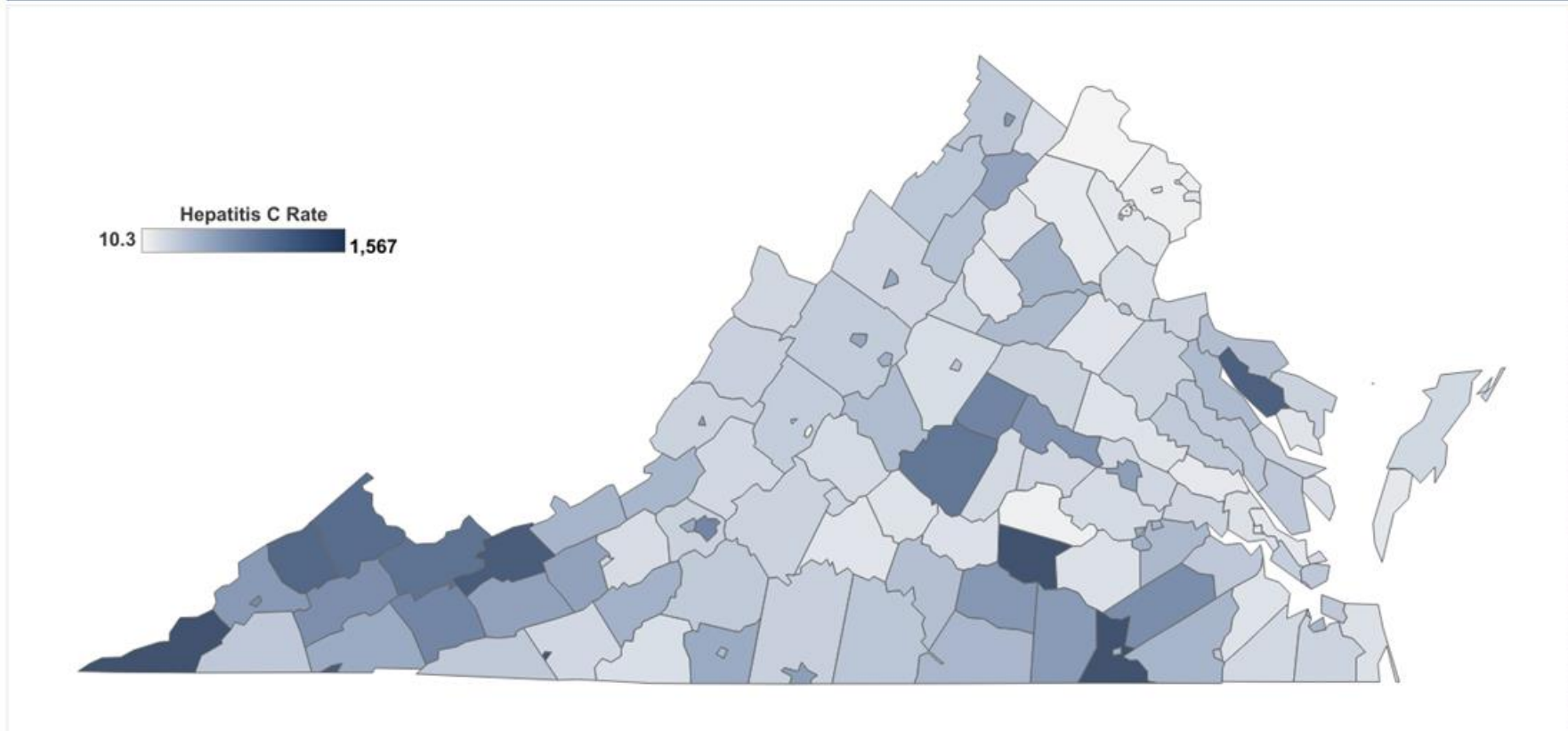


## Rate of New HIV Diagnoses, per 100K Population



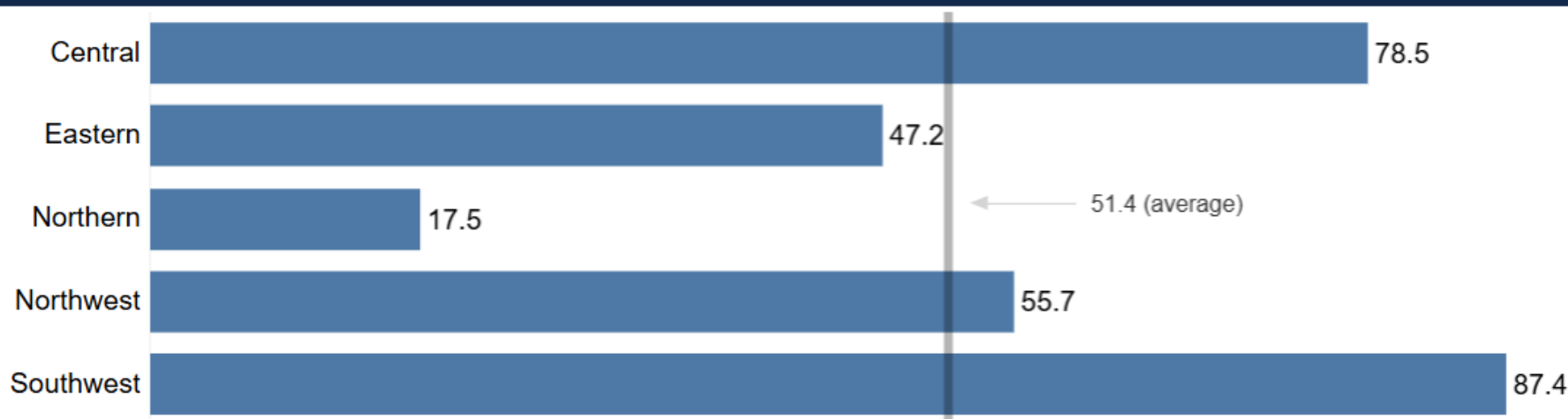


Rate (per 100,000 population) of acute, chronic, and perinatal hepatitis C cases map, by county of residence, Virginia, 2023



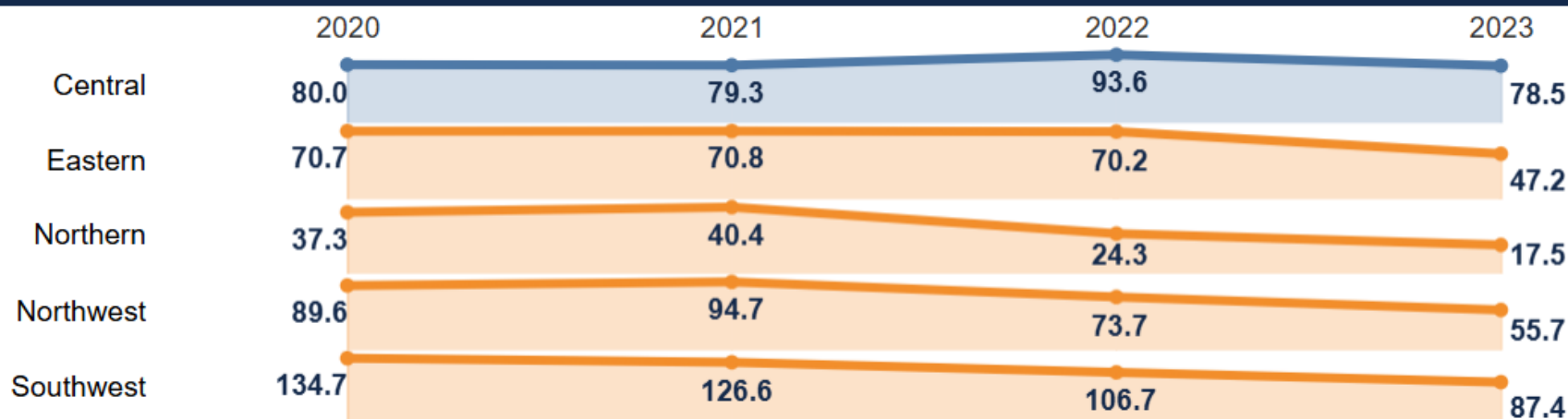


## Rate (cases per 100,000 population) of acute, chronic, and perinatal hepatitis C by region of residence, Virginia, 2023



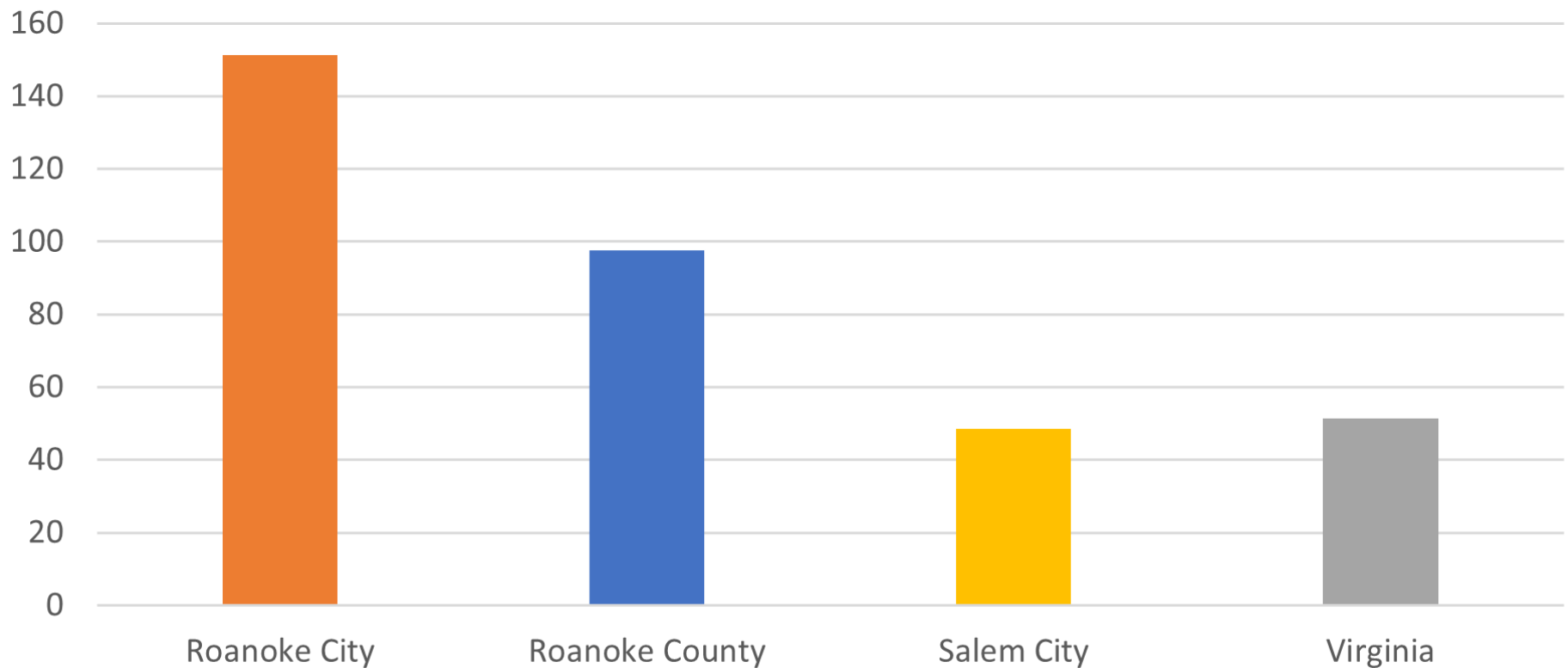


Rate (cases per 100,000 population) of acute, chronic, and perinatal hepatitis C by region of residence, Virginia, 2020-2023





## 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



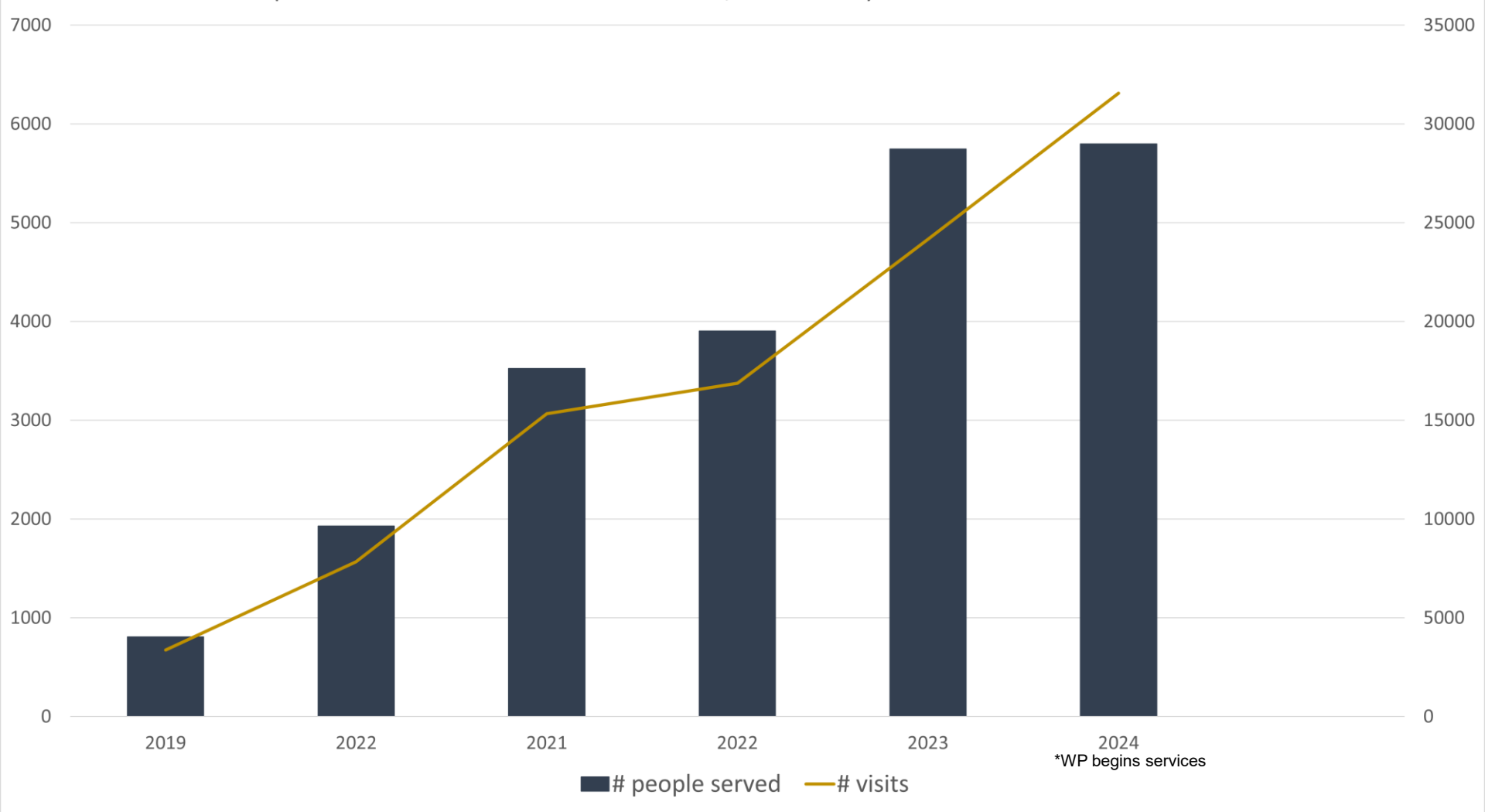
# What's Working: Program Data



# Harm Reduction By The Numbers:



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





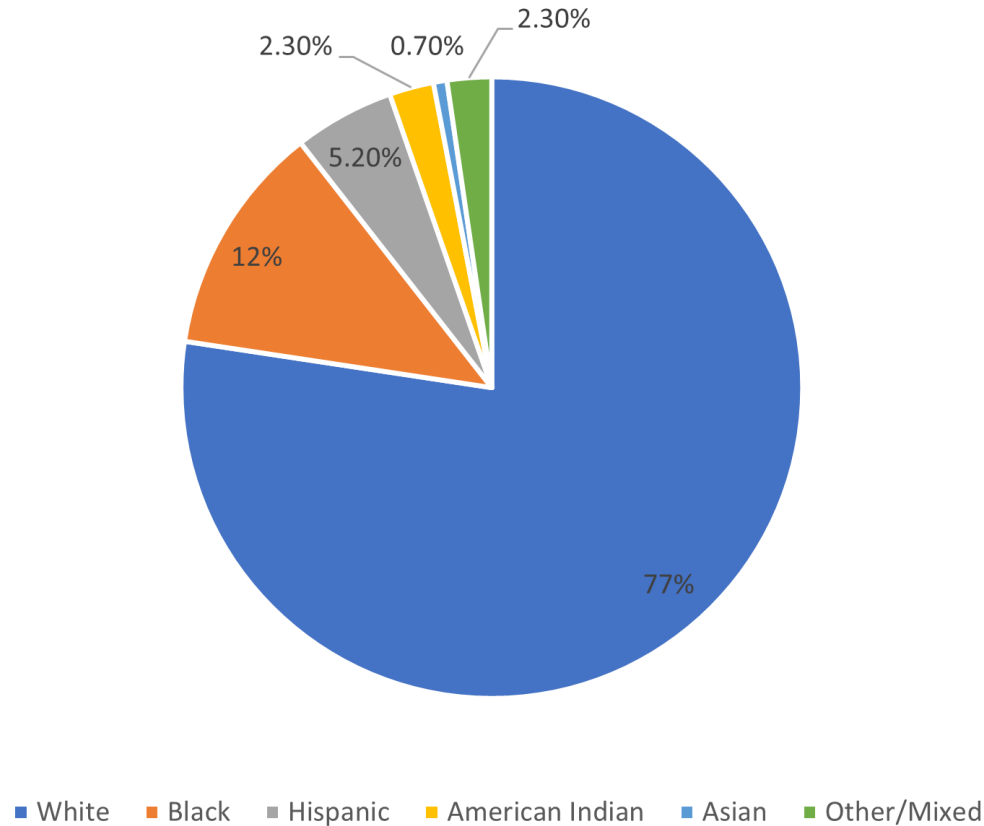
# Locality Race Estimates 2023

| 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)





## RCAHD Naloxone and Test Strips Total (2024)

