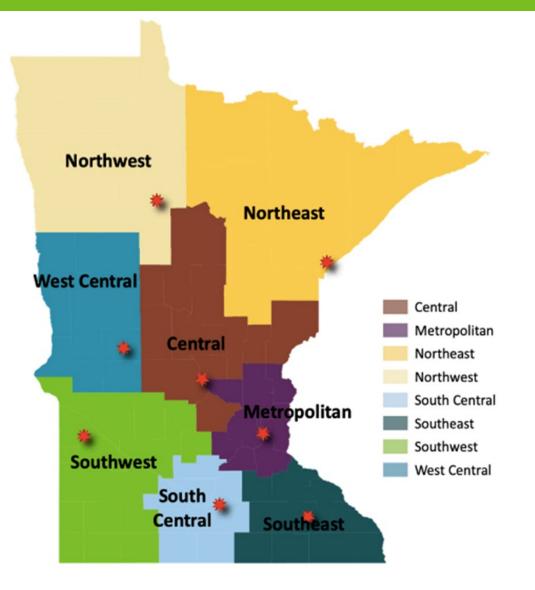


### Northwest Minnesota Drug and Opioid-Involved Data Overview

Sara Lovett, MPH | Northwest District Epidemiologist

# Northwest Emergency Medical System (EMS) Region of Minnesota



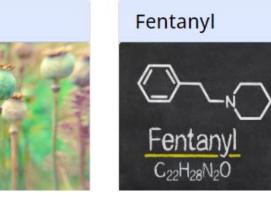
- 12 counties:
- Beltrami, Clearwater, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake, and Roseau
- 3 Tribes:
- Red Lake, White Earth, and Leech Lake

# Opioid and Drug Overdose Terminology

- Nonfatal Drug Overdose: overdose due to drug use that did not result in death
- Nonfatal Opioid-involved Overdose: overdose due to drug use involving opioid(s) <u>but does not exclude other</u> <u>drugs</u> that did not result in death

- Drug Overdose Death: overdose due to drug use that resulted in death
- Opioid-involved Overdose Death: overdose due to drug use involving opioid(s) <u>but does not exclude other</u> <u>drugs</u> that resulted in death



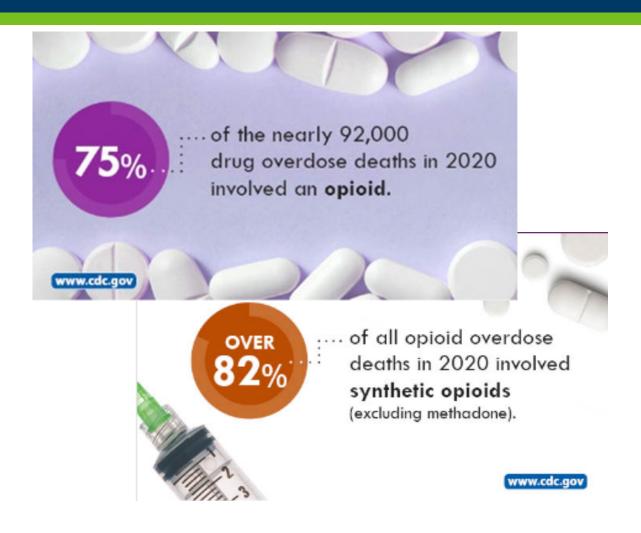


# **Opioid Epidemic Overview**

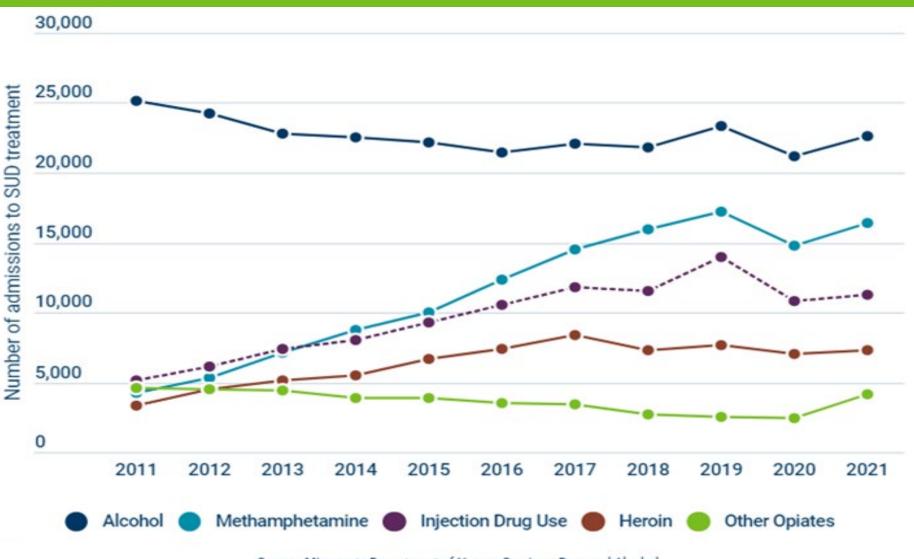
- Opioids are a class of drugs used to treat pain including:
  - Prescription opioids can be prescribed by doctors. Common types are oxycodone (OxyContin), hydrocodone (Vicodin), morphine, and methadone
  - Fentanyl is a synthetic opioid pain reliever approved for treating severe pain, but can be illegally made
  - Heroin is an illegal opioid
- Began in the 1990s with prescription opioids and overdose deaths involving natural and semi-synthetic opioids and methadone increasing since 1999
- Overdose deaths involving heroin began in 2010
- Significant increase in overdose deaths involving synthetic opioids, particularly those involving illicitly manufactured fentanyl began in 2013

# National Opioid Overdose Epidemic

- Nationally, the rate of overdose deaths involving opioids remains high
- In 2020, opioids were involved in more than 68,000 deaths (8.5 x the number of opioid-involved overdose deaths in 1999) (CDC)
- Drug overdose deaths increased by nearly 30% from 2019 to 2020 (CDC)



#### Minnesota Primary Substance Used at the Time of Treatment

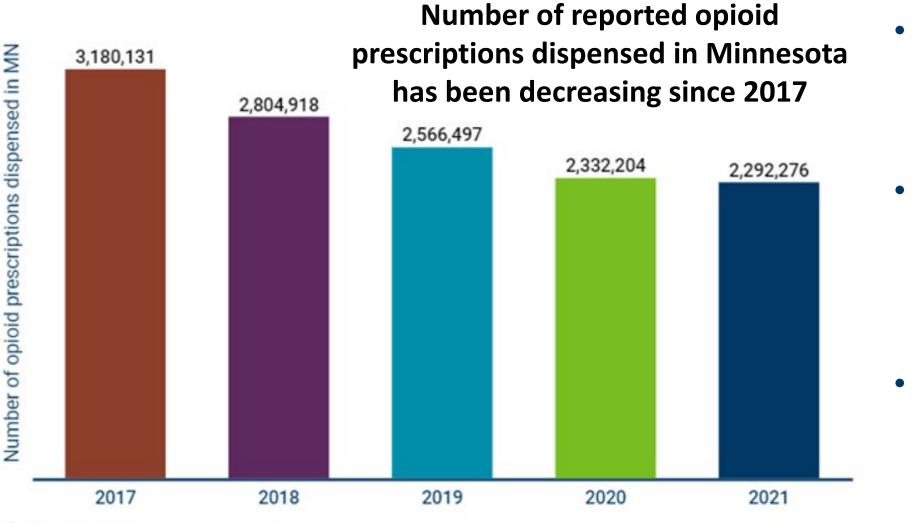


 Among Minnesota adults, alcohol remains the primary substance used at the time of admission for Substance Use Disorder (SUD) treatment

 Methamphetamines continue to be the second leading substance used at admission for SUD

Source: Minnesota Department of Human Services, Drug and Alcohol Abuse Normative Evaluation system (DAANES)

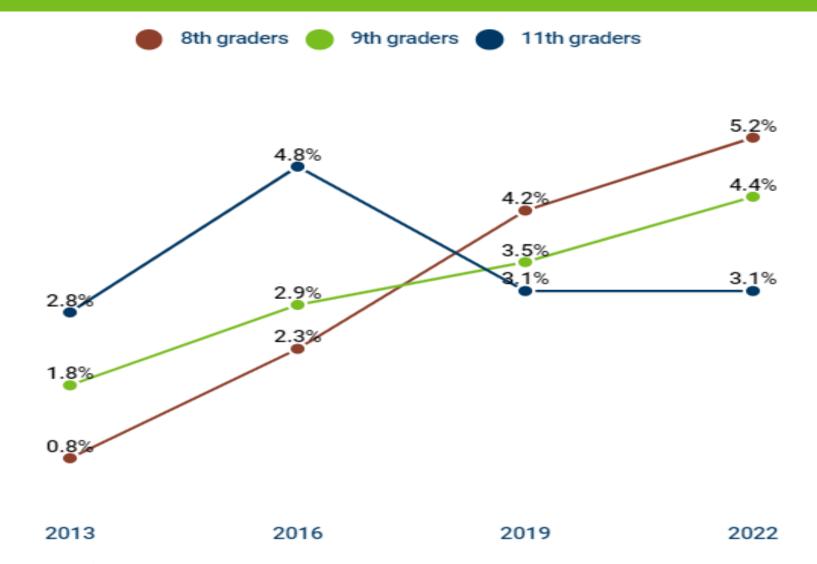
# Minnesota Reported Opioid Prescriptions Dispensed



- Most common access to opioids is through a medical prescription
- Diversion: when a prescribed medication is taken by someone it was not prescribed to
- Reducing opioids begins with reducing opioid prescriptions

Source: Minnesota Board of Pharmacy Minnesota Pharmacy Prescription Monitoring Program

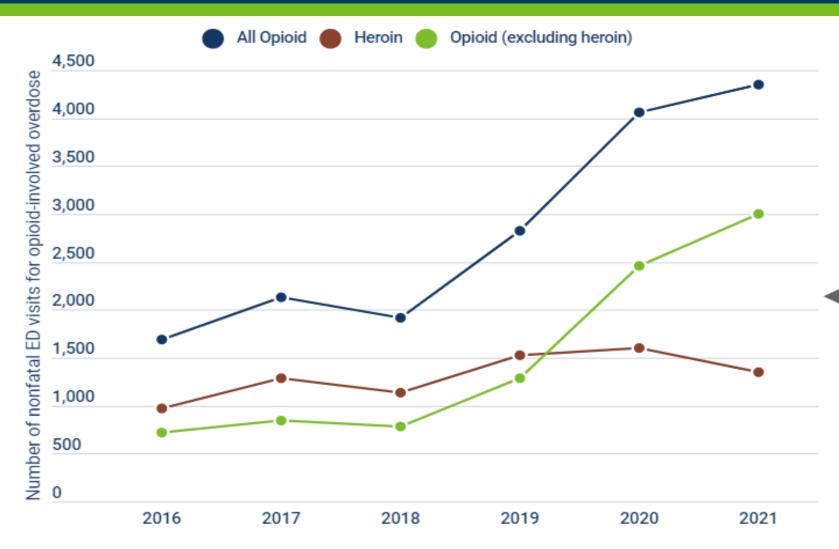
#### Minnesota Opioid Use and Misuse Among Youth



 Percentage of 8th and 9th graders who reported inappropriate use of pain medications (e.g., OxyContin, Percocet, Vicodin) in the past 12 months has continued to increase

 Inappropriate use among 11th graders remained steady from 2019 to 2022 but lower than 8<sup>th</sup> & 9<sup>th</sup> graders

# Minnesota Nonfatal Emergency Department (ED) Visits for Opioid-Involved Overdoses



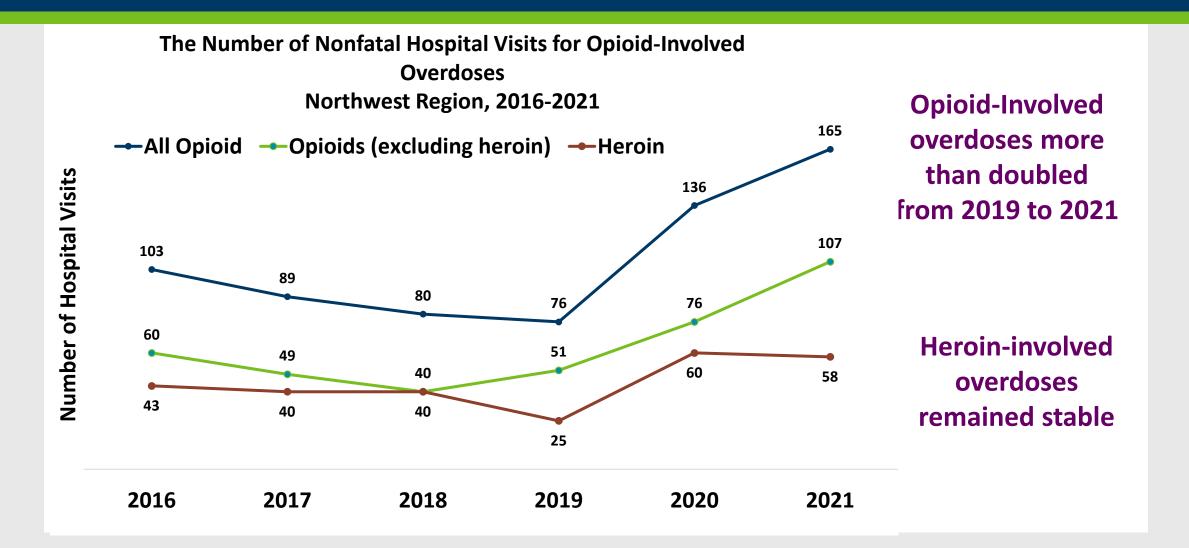
 Nonfatal overdoses involving heroin decreased

Nonfatal emergency department (ED) visits for opioid-involved overdoses has been increasing since 2018

Increase driven by overdoses involving legal opioids rather than heroin

Source: Minnesota Department of Health, Minnesota hospital discharge data

#### Northwest Nonfatal Hospital Opioid-Involved Overdoses



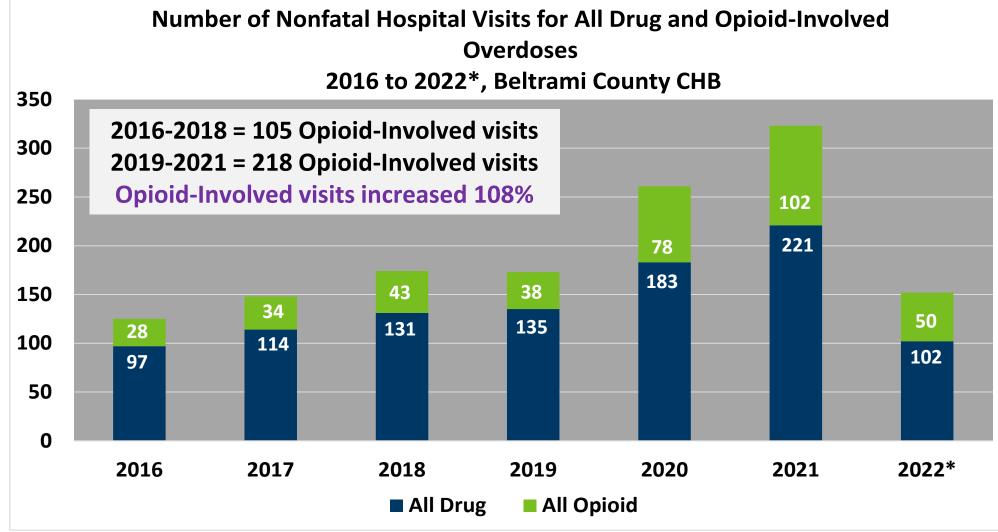
# Northwest Nonfatal Hospital Visits for Opioid-Involved Overdoses

#### Number of Nonfatal Hospital Visits for Opioid-Involved Overdoses, by County, Northwest Region, MN 2016-2022\*

	2016	2017	<b>2018</b>	<b>2019</b>	2020	2021	2022*
Beltrami	28	34	43	38	78	102	50
Clearwater	4	6	4	4	5	12	6
Hubbard	6	5	6	6	4	3	6
Kittson	1	0	0	2	1	0	0
Lake of the Woods	1	0	1	1	6	4	0
Mahnomen	30	26	10	8	17	19	8
Marshall	4	0	1	2	0	1	0
Norman	1	2	1	1	0	3	0
Pennington	7	2	7	2	8	4	2
Polk	18	13	6	7	12	12	4
Red Lake	0	1	0	0	1	3	1
Roseau	3	0	1	5	4	2	0
Total	<mark>103</mark>	<mark>89</mark>	<mark>80</mark>	<mark>76</mark>	<mark>136</mark>	<mark>165</mark>	<mark>77</mark>

\*Data through June 2022

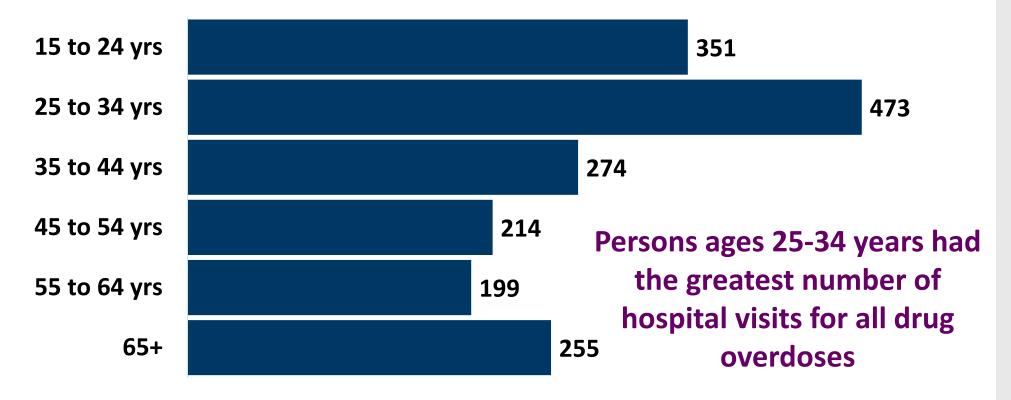
# Beltrami County Nonfatal All Drug and Opioid-Involved Overdoses



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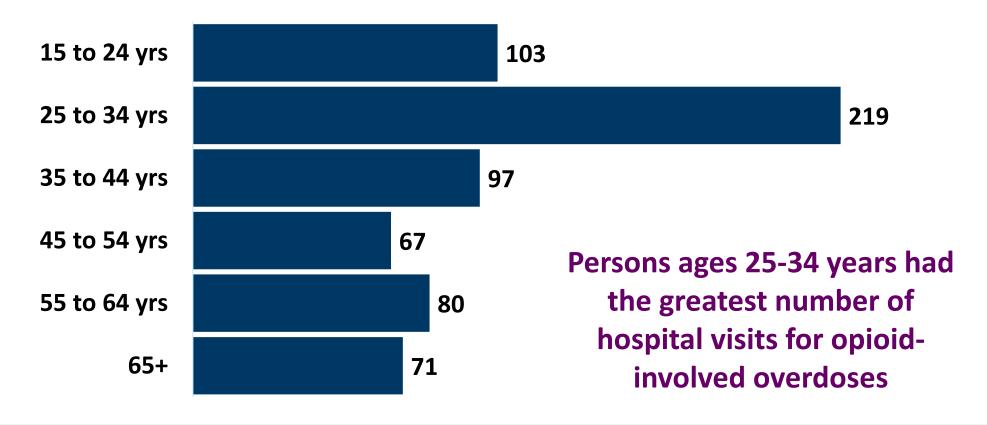
#### Northwest Nonfatal Drug Overdoses by Age Group

Number of Nonfatal Hospital Visits for All Drug Overdoses, by Age Group, Northwest Region, 2016-2021

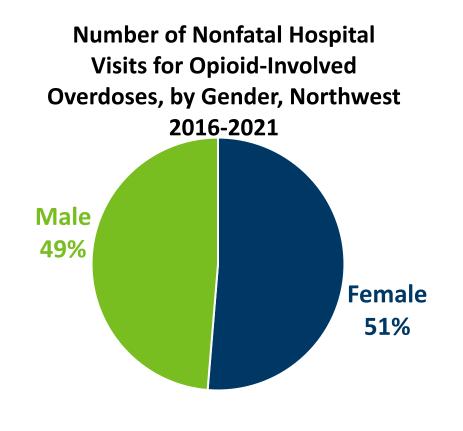


# Northwest Nonfatal Hospital Opioid-Involved Overdoses by Age Group

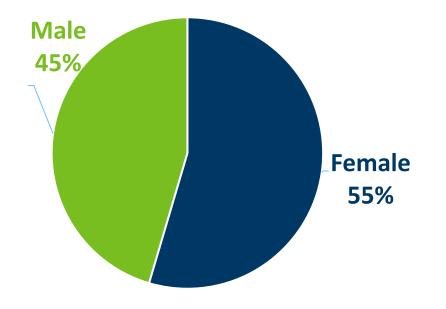
Number of Nonfatal Hospital Visits for Opioid-Involved Overdoses, by Age Group, Northwest Region, 2016-2021



# Northwest Nonfatal All Drug and Opioid-Involved Overdoses

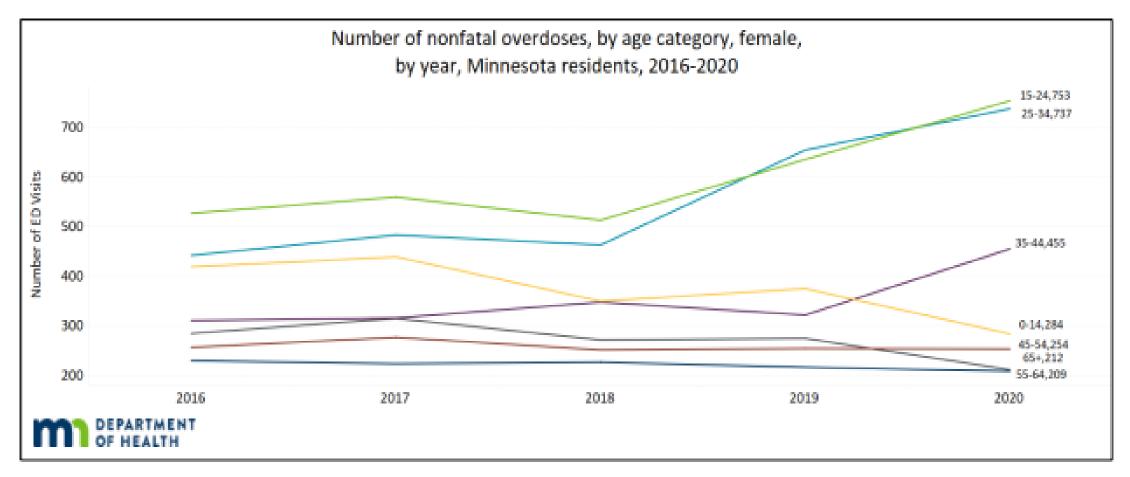


Number of Nonfatal Hospital Visits for All Drug Overdoses, by Gender, Northwest 2016-2021



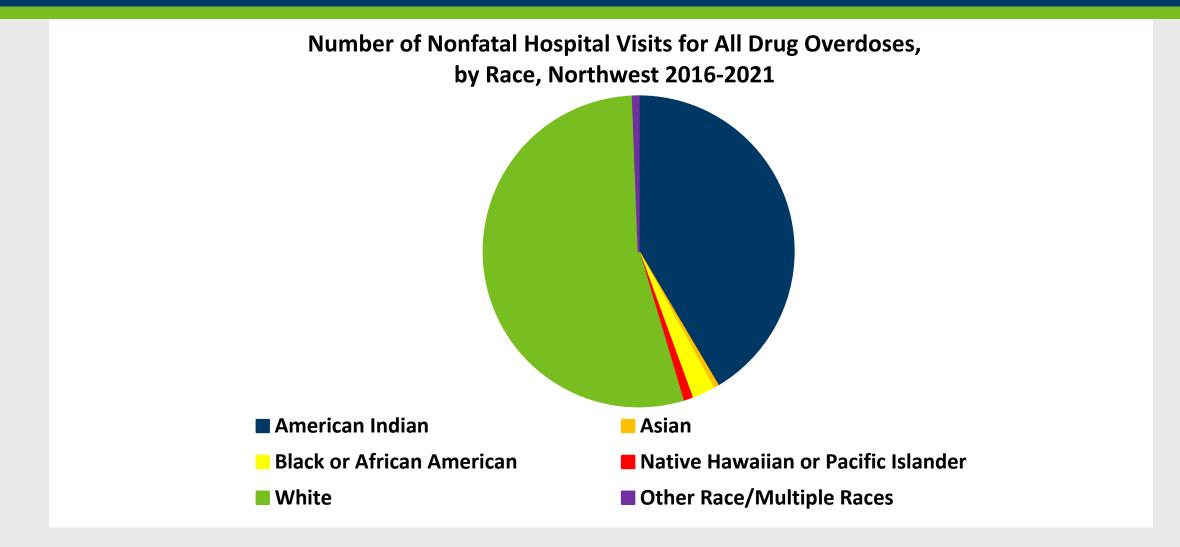
#### Minnesota Nonfatal All Drug Overdoses

Chart 8. Among female Minnesotans, the 15-24- and 25-34-year age groups experienced the largest number of nonfatal overdoses, with a recent increase among both age groups beginning in 2019.

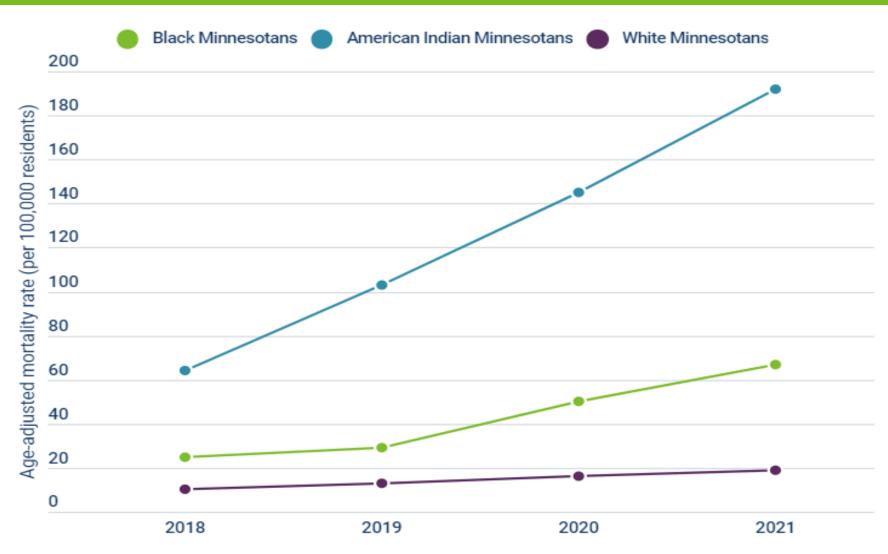


SOURCE: Hospital Discharge Data, Injury and Violence Prevention Section, Minnesota Department of Health, 2016-2020.

#### Northwest Nonfatal All Drug Overdoses



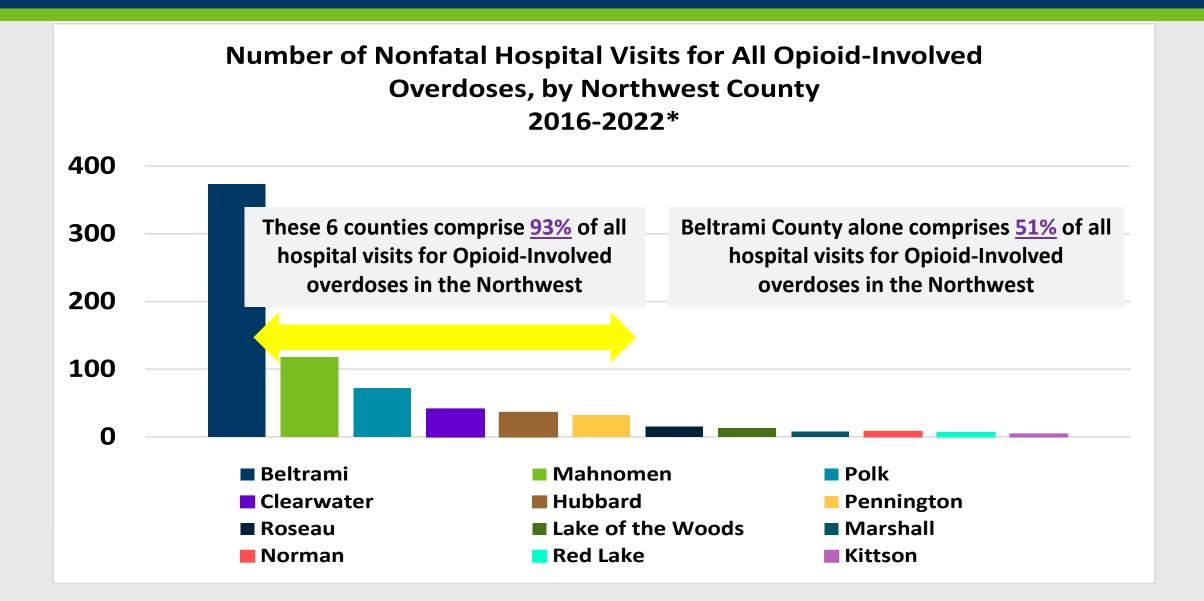
## Minnesota Fatal All Drug Overdose Disparities



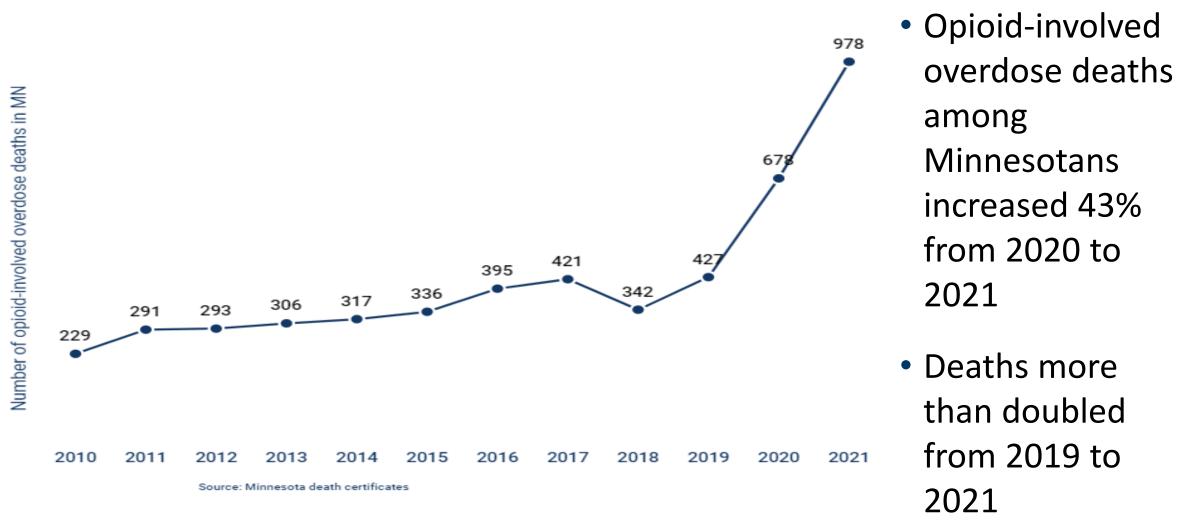
 In 2021, American Indians were <u>10x</u> more likely to die from a drug overdose compared to Whites

 In 2021, Black Minnesotans were
<u>3x</u> more likely to die from a drug overdose
compared to
Whites

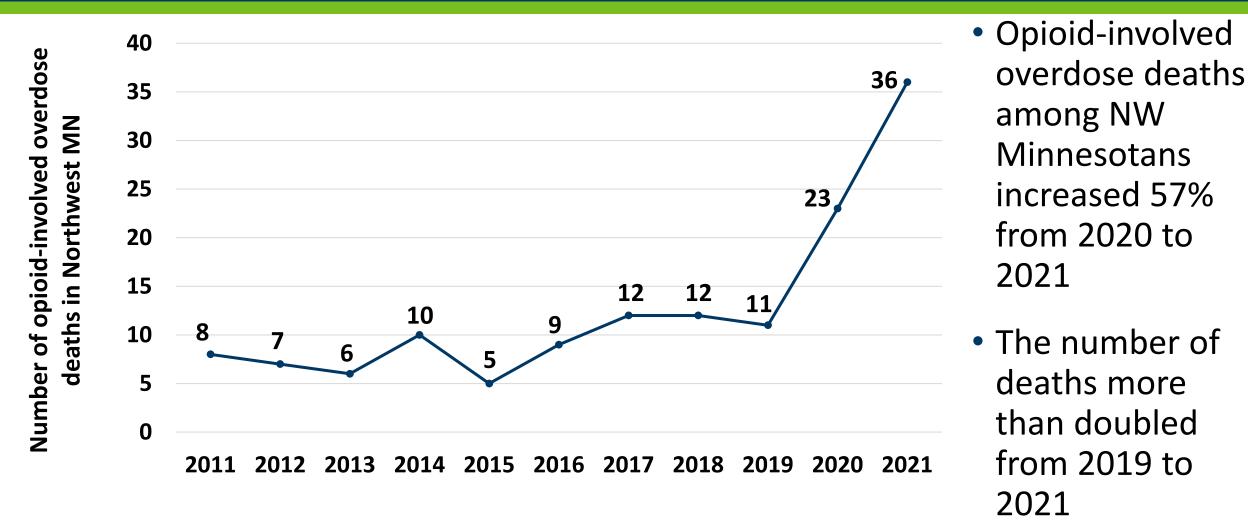
#### Northwest Nonfatal Opioid-Involved Overdoses by County



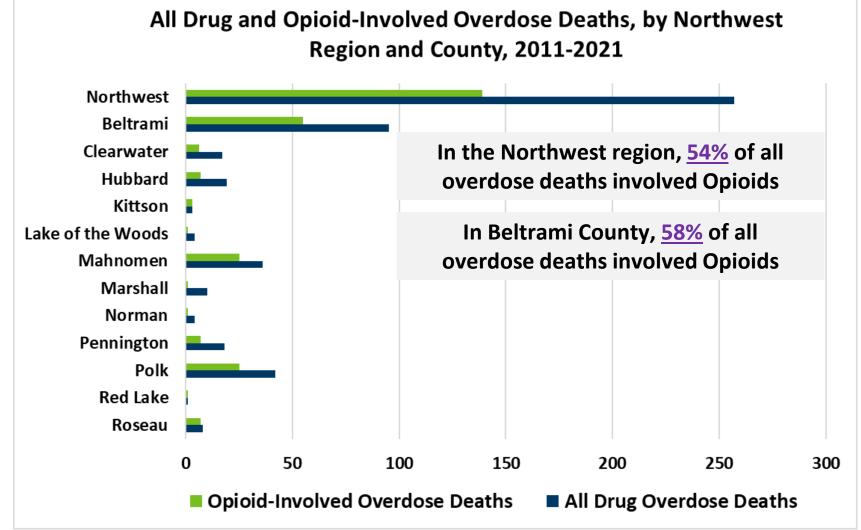
#### Minnesota Opioid-Involved Overdose Deaths



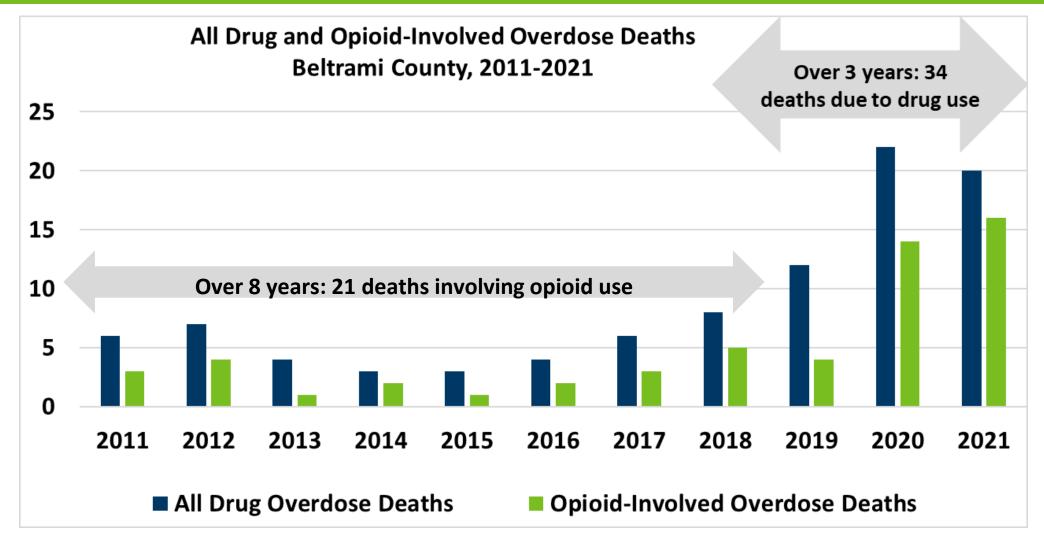
### Northwest Opioid-Involved Overdose Deaths



# Northwest All Drug and Opioid-Involved Overdose Deaths, 2011-2021



# Beltrami County All Drug and Opioid-Involved Fatal Overdoses



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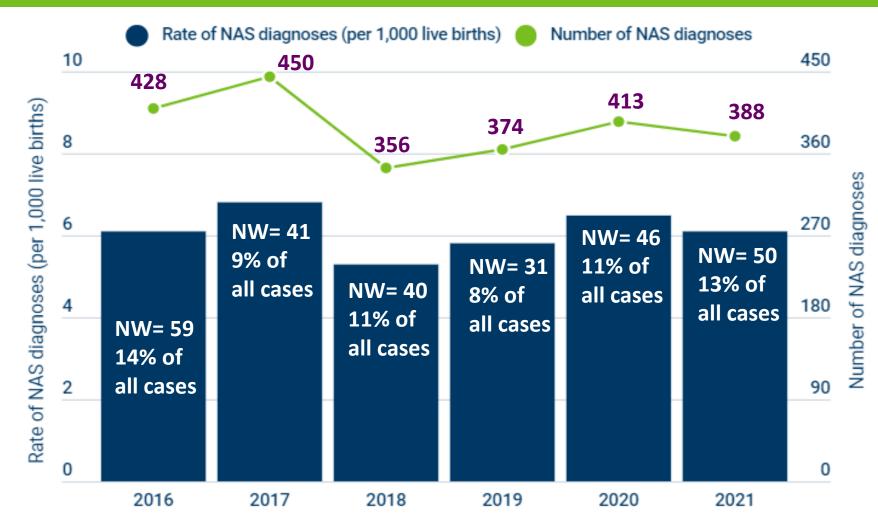
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# Neonatal Abstinence Syndrome (NAS)

- Occurs when a pregnant woman takes drugs such as heroin, codeine, oxycodone (Oxycontin), methadone, or buprenorphine and substances pass through the placenta that connects the baby to its mother in the womb. The baby becomes dependent on the drug along with the mother
- Most babies with NAS get treatment in the hospital after birth. Most babies who get treatment get better in a few days or weeks but are hospitalized for longer (3-4 weeks)
- NAS may lead to long-term health and development problems, including hearing, vision, learning, and behavioral problems

# Minnesota Neonatal Abstinence Syndrome (NAS)

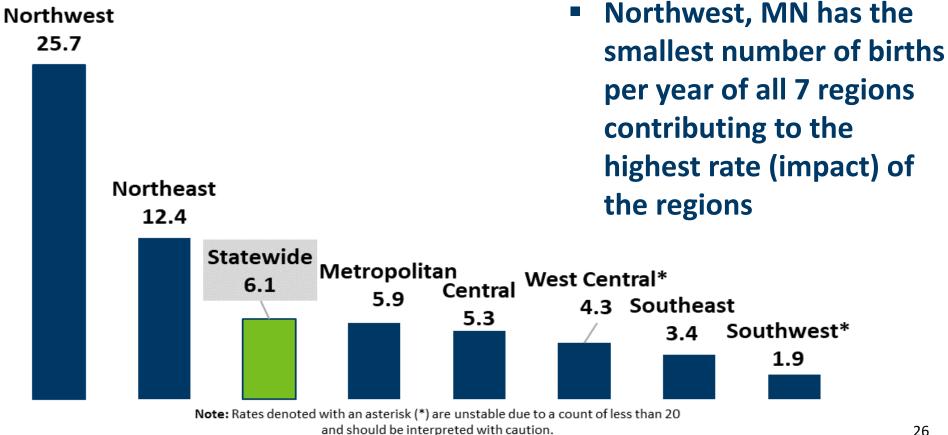


- Number and rate (per 1,000 live births) of NAS diagnoses has varied since 2016
- In 2021, outside of the Metro Region, the NW had the second highest number of NAS cases
- From 2019 to 2021, NAS cases in the NW increased 61%. The largest increase across all 7 regions

Source: Minnesota Department of Health, Minnesota hospital discharge data (NAS diagnoses), Minnesota birth certificates (live births counts)

# Northwest Neonatal Abstinence Syndrome (NAS)

#### In 2021, the rate (per 1,000 live births) of NAS was highest in the Northwest Region

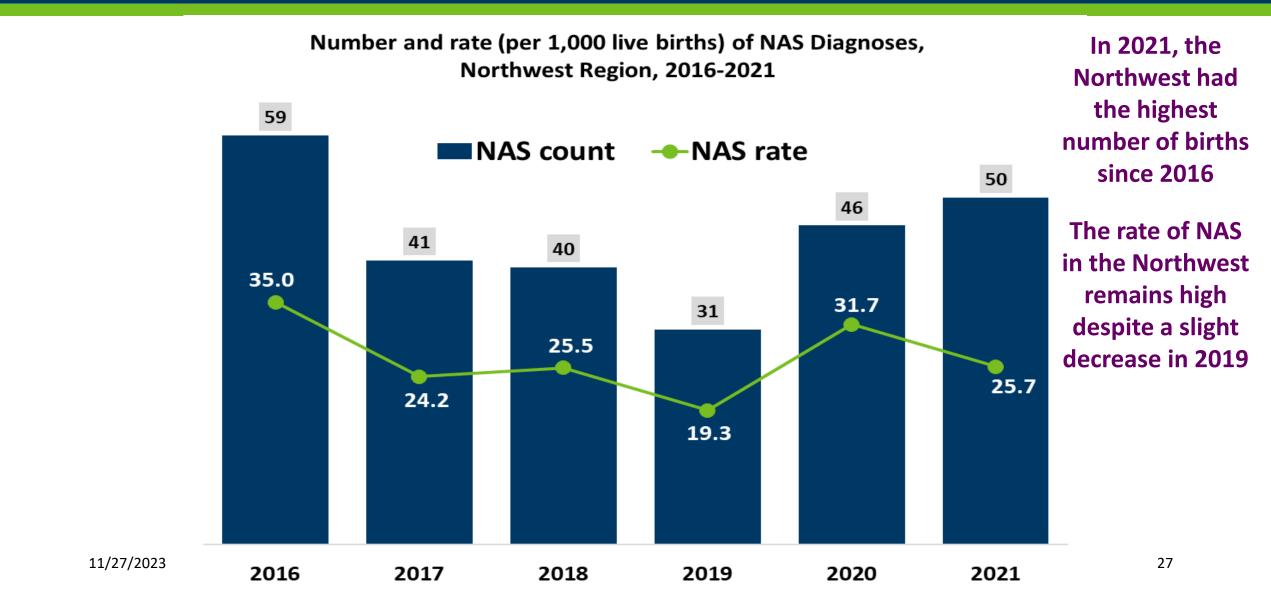


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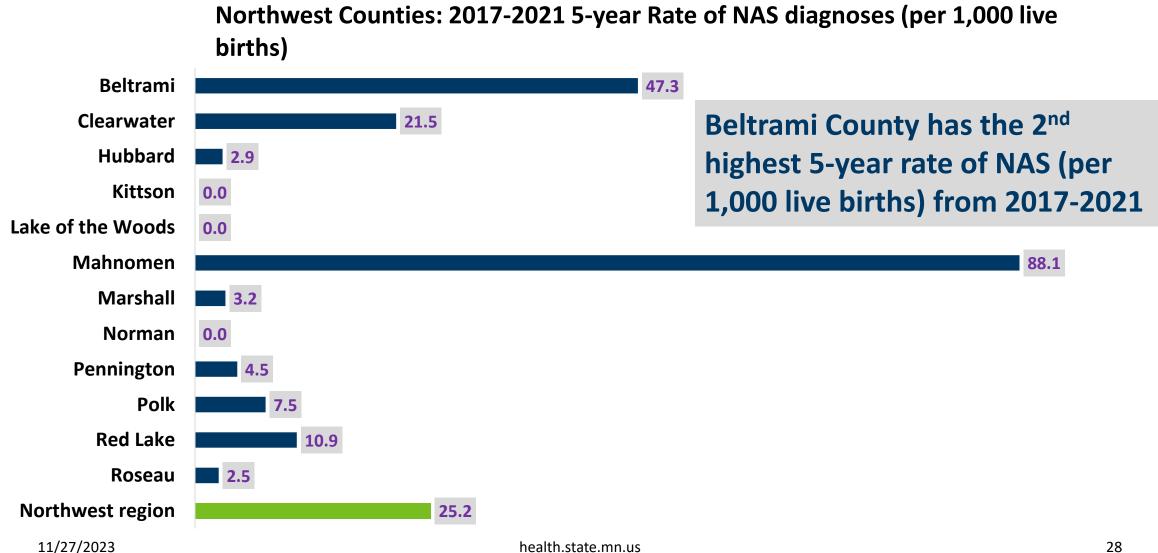
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# Northwest Neonatal Abstinence Syndrome (NAS)

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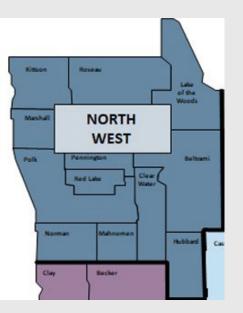


# Northwest Neonatal Abstinence Syndrome (NAS)





# Questions/Thank You!



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