

12/31/2017



Medication and Drug Overdose in Durham County,

1999-2016



Technical Notes

- The fatal data provided here are part of the Vital Registry System of the State Center for Health Statistics (SCHS) and have been used to historically track and monitor the drug overdose burden in NC using ICD10 codes. The definitive data on deaths come from the NC Office of the Chief Medical Examiner (OCME). For the most recent data and data on specific drugs, please contact at OCME at http://www.ocme.dhhs.nc.gov/annreport/index.shtml.
- Please note that for some counties, data may be suppressed and not reported due to low counts.
- Some counties are grouped to allow for greater reliability.
- Use caution when interpreting death counts under 10.
- Often times, rates have not been calculated due to challenges of small numbers at county levels and unreliability of rates.
- Speaking and technical notes should be read prior to using.

If you have questions or concerns about sharing this data, please contact Mary Beth Cox (MaryBeth.Cox@dhhs.nc.gov) before disseminating.



Local Health Director Regions

For counties with low counts, regional data is provided to allow more reliable analyses.

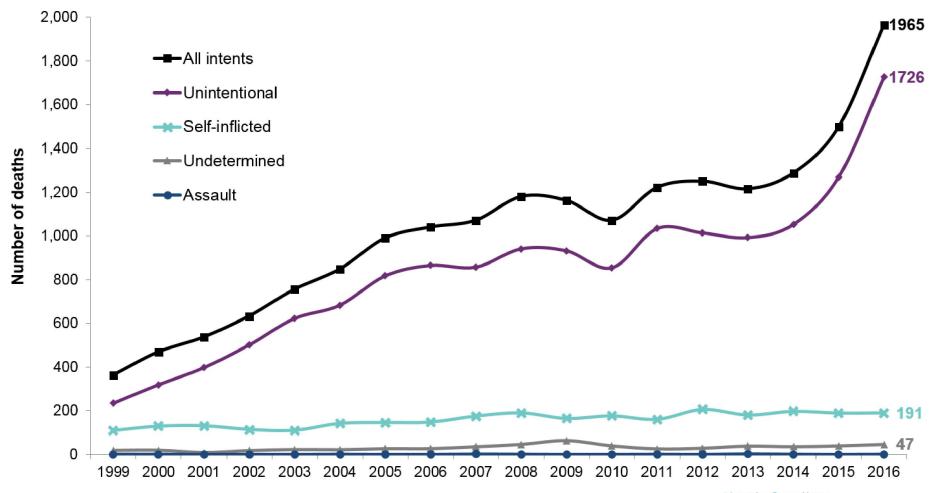
Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10
Cherokee Clay Graham Haywood Jackson Macon Swain Transylvania	Buncombe Burke Caldwell Cleveland Henderson Madison Rutherford- a Polk- McDowell Yancey- Mitchell-	Davidson Davie Forsyth Stokes Surry Watauga- Ashe- Alleghany Wilkes Yadkin	Alexander Cabarrus Catawba Gaston Iredell Lincoln Mecklenburg Rowan Stanly Union	Alamance Caswell Chatham Durham Guilford Orange Person Randolph Rockingham	Anson Cumberland Harnett Hoke Lee Montgomery Moore Richmond Scotland	Edgecombe Franklin Granville- Vance Halifax Johnston Nash Wake Warren Wilson Bladen Brunswick Columbus Duplin New Hanover Onslow Pender Robeson Sampson		Bertie Currituck Dare Hertford- Gates Hyde Martin- Tyrrell- Washington Northampton Pasquotank- Perquimans-	Beaufort Carteret Craven Greene Jones Lenoir Pamlico Pitt Wayne
	Avery		***				Inj	Camden- Chowan th Carolina ury & Vic	olence III

Medication & Drug Overdose by Intent



Statewide Medication & Drug Overdose Deaths by Intent

North Carolina Residents, 1999-2016

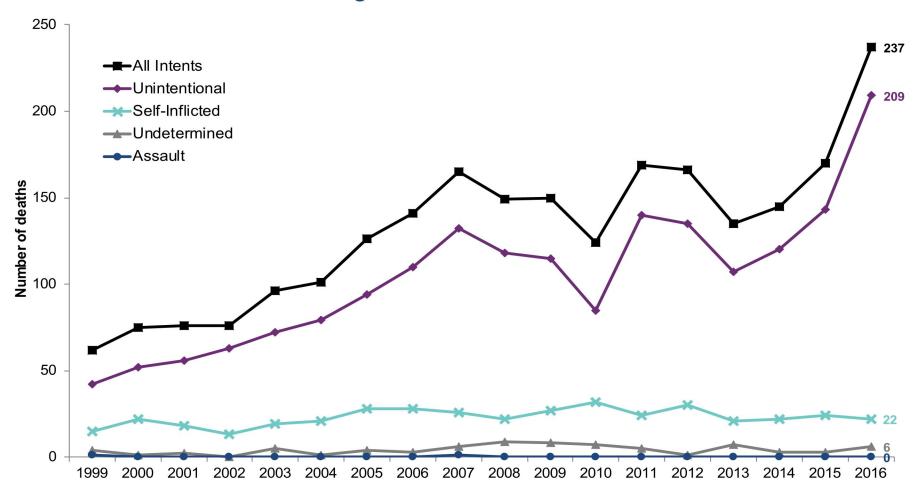


Source: N.C. State Center for Health Statistics, Vital Statistics-Deaths, 1999-2016 Medication and drug overdose: X40-X44, X60-X64, Y10-Y14, X85. Analysis by Injury Epidemiology and Surveillance Unit



Regional Medication & Drug Overdose Deaths by Intent

Local Health Director Region 5 Residents, 1999-2016

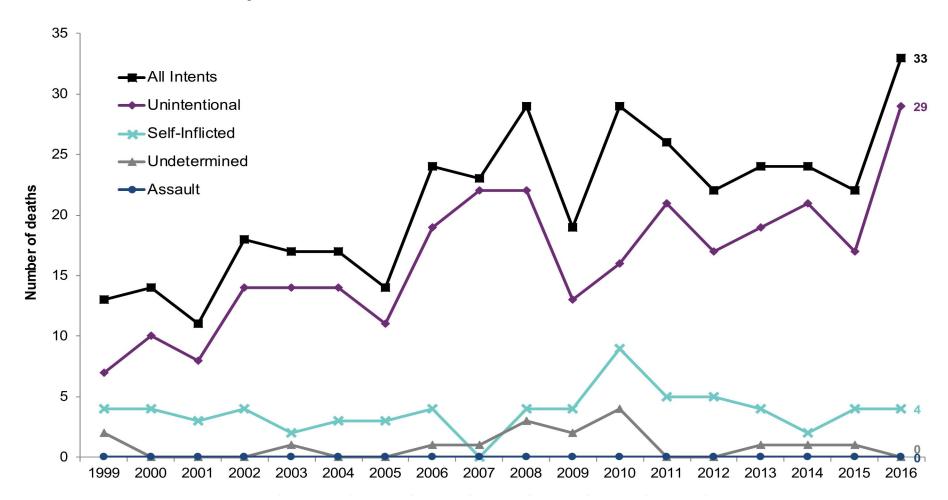


Source: N.C. State Center for Health Statistics, Vital Statistics-Deaths, 1999-2016 Medication and drug overdose: X40-X44, X60-X64, Y10-Y14, X85. Analysis by Injury Epidemiology and Surveillance Unit



County Medication & Drug Overdose Deaths by Intent

Durham County Residents, 1999-2016

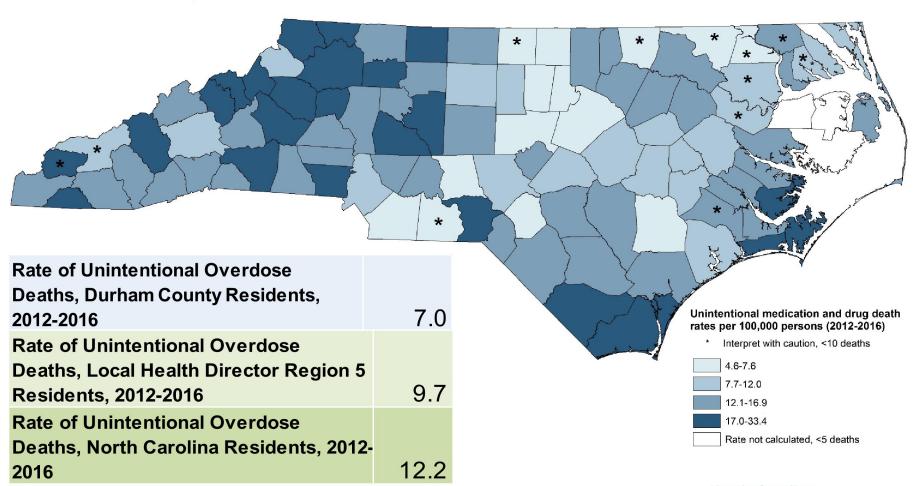


Source: N.C. State Center for Health Statistics, Vital Statistics-Deaths, 1999-2016 Medication and drug overdose: X40-X44, X60-X64, Y10-Y14, X85. Analysis by Injury Epidemiology and Surveillance Unit



Rate of Unintentional Medication & Drug Deaths by County

per 100,000 North Carolina Residents, 2012-2016



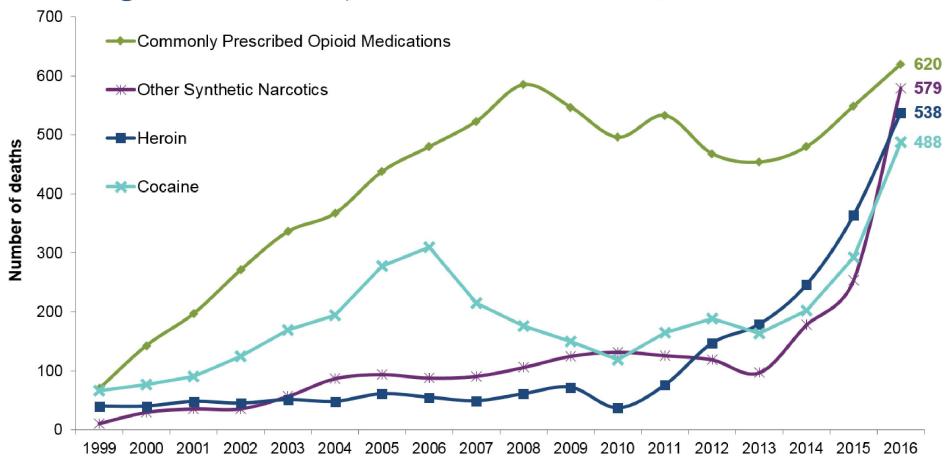
Source: Deaths-N.C. State Center for Health Statistics, Vital Statistics, 2012-2016, Unintentional medication and drug overdose: X40-X44/Population-National Center for Health Statistics, 2012-2016 Analysis by Injury Epidemiology and Surveillance Unit



Substances Contributing to Unintentional Overdose Deaths



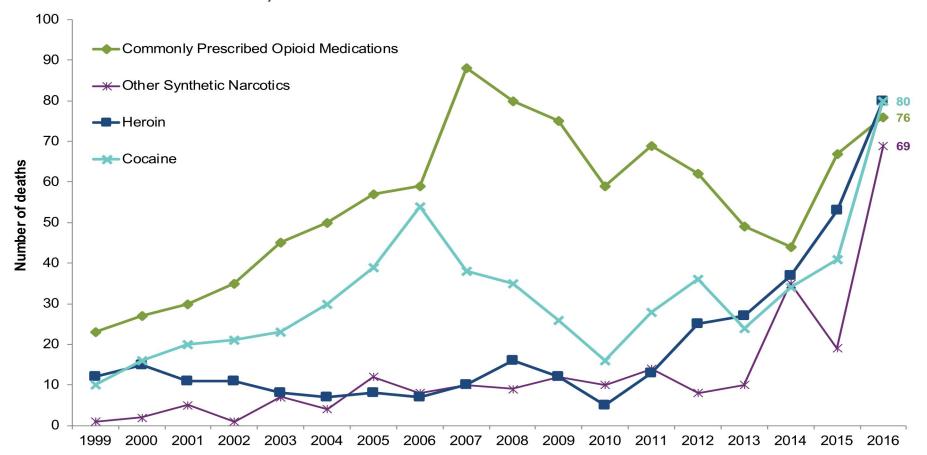
Substances* Contributing to Unintentional Medication and Drug Overdose Deaths, North Carolina Residents, 1999-2016



^{*}These counts are not mutually exclusive. If the death involved multiple drugs it can be counted on multiple lines.



Substances* Contributing to Unintentional Medication and Drug Overdose Deaths, Local Health Director Region 5 Residents, 1999-2016

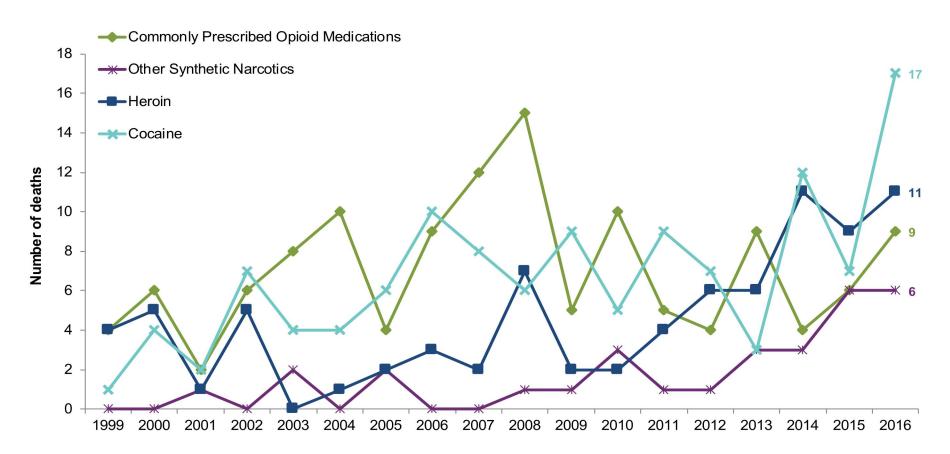


^{*}These counts are not mutually exclusive. If the death involved multiple drugs it can be counted on multiple lines.

Source: N.C. State Center for Health Statistics, Vital Statistics-Deaths, 1999-2016, Unintentional medication and drug overdose: X40-X44 with any mention of specific T-codes by drug type. Analysis by Injury Epidemiology and Surveillance Unit



Substances* Contributing to Unintentional Medication and Drug Overdose Deaths, Durham County Residents, 1999-2016



^{*}These counts are not mutually exclusive. If the death involved multiple drugs it can be counted on multiple lines.



Demographics of Unintentional Medication & Drug Overdose Deaths



Regional Demographics of Unintentional Medication & Drug Overdose Deaths,

by sex, age: 2012-2016

	SEX		AGE				
	M	F	0-17	18-24	25-44	45-64	65+
Local Health Director Region 5, Overall Population, 2012-2016	48%	52%	22%	11%	26%	26%	14%
Unintentional Overdose Deaths, Local Health Director Region 5 Residents, 2012-2016	63%	37%	0%	9%	50%	37%	3%
Unintentional Overdose Deaths, North Carolina Residents, 2012-2016	63%	37%	0%	9%	49%	39%	3%



County Demographics of Unintentional Medication & Drug Overdose Deaths,

by sex, age: 2012-2016

	SEX		AGE				
	M	F	0-17	18-24	25-44	45-64	65+
Durham County, Overall Population, 2012-2016	48%	52%	22%	11%	33%	24%	11%
Unintentional Overdose Deaths, Durham County Residents, 2012-2016	68%	32%	1%	5%	54%	38%	2%
Unintentional Overdose Deaths, North Carolina Residents, 2012-2016	63%	37%	0%	9%	49%	39%	3%



Regional Demographics of Unintentional Medication & Drug Overdose Deaths,

by race/ethnicity: 2012-2016

	RACE					
				Am.		
	White	Black	Asian	Indian	Hisp.	
Local Health Director Region 5, Overall Population, 2012-2016	60%	26%	4%	0%	10%	
•	00 /6	20/0	4 /0	0 /0	1070	
Unintentional Overdose Deaths, Local Health Director Region 5 Residents,	700/	400/	00/	4.0/	4.0/	
2012-2016	79%	18%	0%	1%	1%	
Unintentional Overdose Deaths, North Carolina Residents, 2012-2016	85%	11%	0%	2%	2%	



County Demographics of Unintentional Medication & Drug Overdose Deaths,

by race/ethnicity: 2012-2016

	RACE						
	White	Black	Asian	Am. Indian	Hisp.		
Durham County, Overall Population, 2012-2016	43%	38%	5%	0%	13%		
Unintentional Overdose Deaths, Durham County Residents, 2012-2016	43%	50%	1%	2%	4%		
Unintentional Overdose Deaths, North Carolina Residents, 2012-2016	85%	11%	0%	2%	2%		



Economic and Societal Costs of Medication & Drug Overdose Deaths



Estimated Total Lifetime Costs

Medical and Work Loss from Medication & Drug Fatalities
All intents, 2016

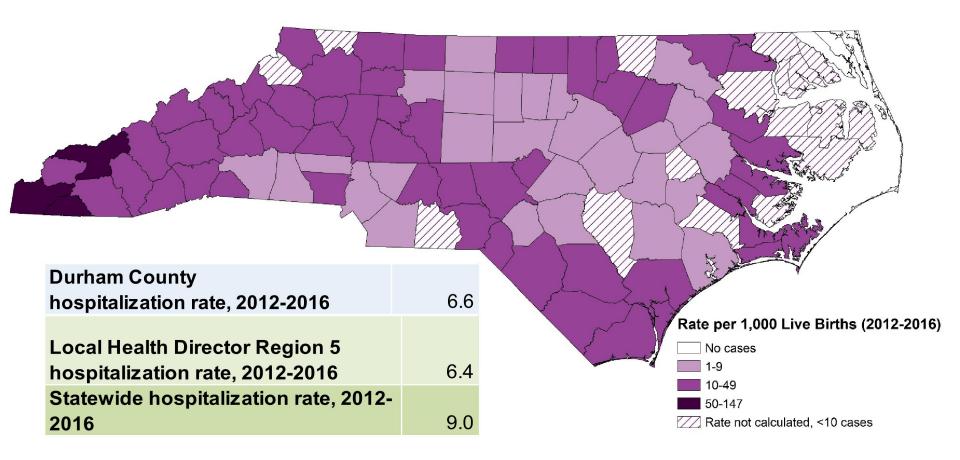
Total Medical Costs in Durham	
County, 2016	\$ 181,380
Total Work Loss Costs in	
Durham County, 2016	\$ 40,954,195
Combined Cost	\$ 41,135,575

Cost per capita in Durham	
County, 2016	\$ 134.34

Source: Deaths-N.C. State Center for Health Statistics, Vital Statistics, 2016, Unintentional medication and drug overdose: X40-X44/Population-National Center for Health Statistics, 2016/Economic impact-CDC WISQARS, Cost of Injury Reports, National Center for Injury Prevention and Control, CDC for all medication and drug deaths (any intent), Base year (2010) costs indexed to state 2015 prices. Analysis by Injury Epidemiology and Surveillance Unit



Hospitalizations Associated with Drug Withdrawal Syndrome in Newborns per 1,000 Live Births, North Carolina Residents, 2012-2016



NOTE: 2014 data structure changed to include up to 95 diagnosis codes. 2015 ICD 9 CM coding system transitioned to ICD10 CM. The impact of these changes on surveillance is unclear.

Source: N.C. State Center for Health Statistics, Hospital Discharge Dataset, 2012-2016 Analysis by Injury Epidemiology and Surveillance Unit

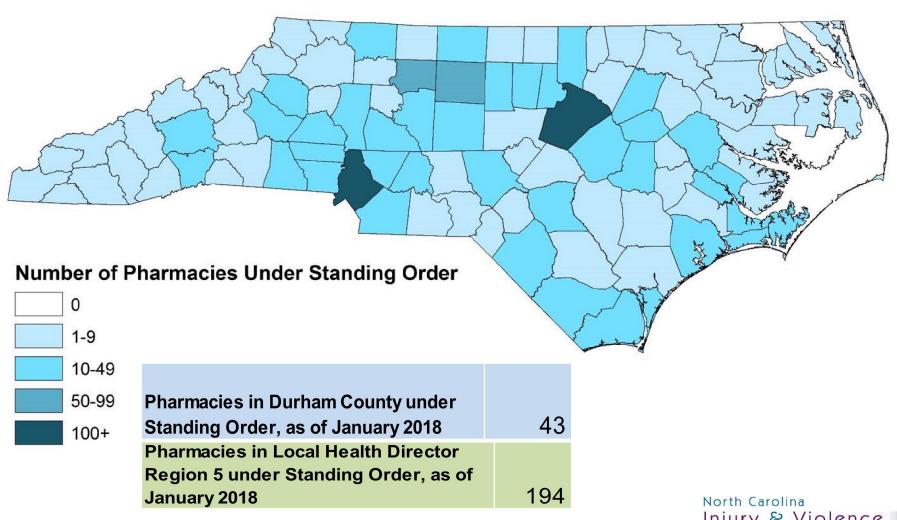


Prevention, Treatment, and Harm Reduction



Number of Pharmacies under Standing Order by County

October 2017 (N=1,407)



Source: Division of Public Health, October 2017 Analysis: Injury Epidemiology and Surveillance Unit Injury & Violence

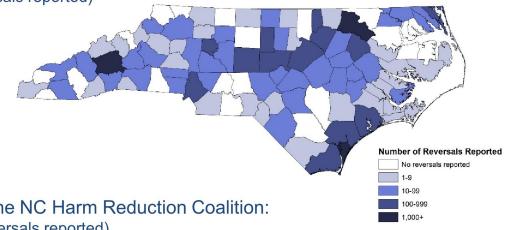
PREVENTION Branch

Opioid Overdose Reversals with Naloxone

Community naloxone reversals reported to the NC Harm Reduction Coalition:

8/1/2013 - 12/31/2017 (9,632 total reversals reported)

Community Reversals in Durham	
County, as of 12/31/2017	3
Community Reversals in Local Health	
Director Region 5, as of 12/31/2017	510



Law Enforcement naloxone reversals reported to the NC Harm Reduction Coalition: 1/1/2015 - 12/31/2017 (821 total reversals reported)

Law Enforcement Reversals in Durham County, as of 12/31/2017	0
Law Enforcement Agencies in Durham County carrying naloxone, as of 12/31/2017	2
Law Enforcement Reversals in Local	
Health Director Region 5 as of	
12/31/2017	55
Law Enforcement Agencies in Local	
Health Director Region 5 carrying	
naloxone, as of 12/31/2017	22

Number of Reversals Reported

No reversals reported

1-9

10-49

50-99

100+

North Carolina

Injury & Violence

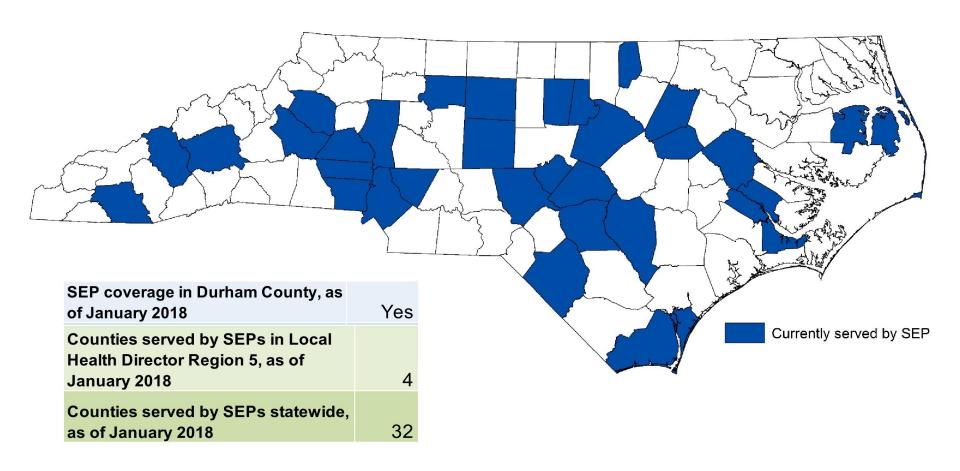
PREVENTION Branch

Source: North Carolina Harm Reduction Coalition, January 2018

Analysis: Injury Epidemiology and Surveillance Unit

Counties currently served by Syringe Exchange Programs (SEPs)

December 2017 (26 active* SEPs)



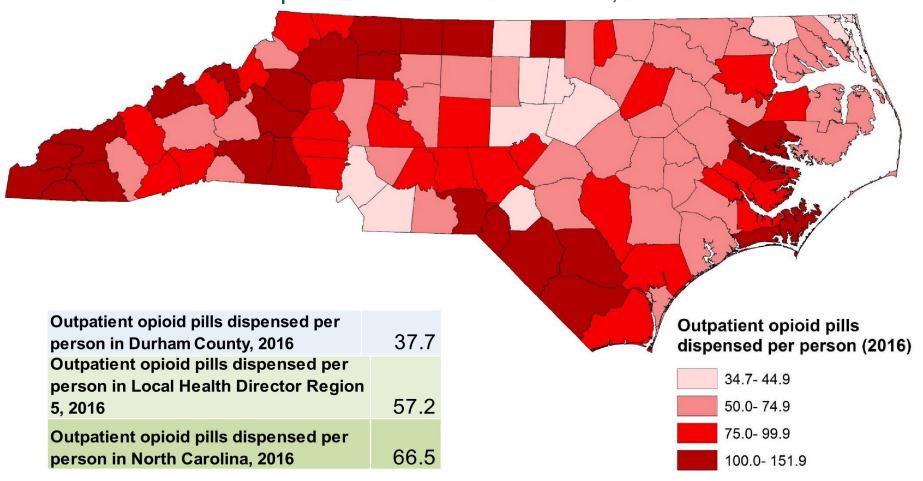
^{*}There may be SEPs operating that are not represented on this map; in order to be counted as an active SEP, paperwork must be submitted to the NC Division of Public Health.

Source: North Carolina Division of Public Health, January 2018 Analysis: Injury Epidemiology and Surveillance Unit



Rate of Outpatient Opioid Pills Dispensed by County

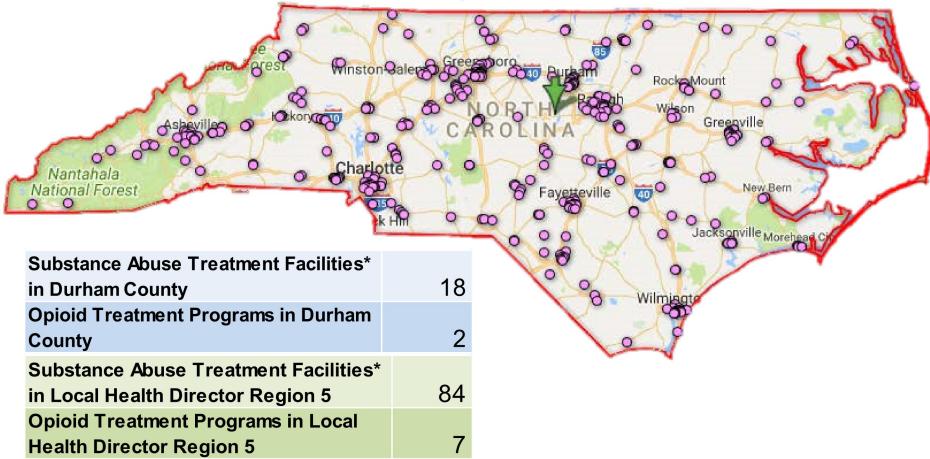
per North Carolina Resident, 2016



Source: Opioid Dispensing – NC Division of Mental Health, Controlled Substance Reporting System, 2016/ Population- National Center for Health Statistics, 2016 Analysis: Injury Epidemiology and Surveillance Unit



Availability of Substance Abuse Treatment Facilities, SAMHSA



^{*}Substance abuse treatment facilities must meet certain eligibility criteria to be listed on the SAMHSA website; not all facilities are in-patient; see notes for more details.



Source: Behavioral Health Treatment Services Locator – SAMHSA, Substance Abuse Treatment Facilities, Accessed 10/2017. Medication Assisted Therapy, Opioid Treatment Program Directory – SAMHSA, Accessed 10/2017.

Questions?

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