



Prescription Drugs Project

By: Team Heath

Agenda/Topic List:

Drug overdose deaths in TN counties

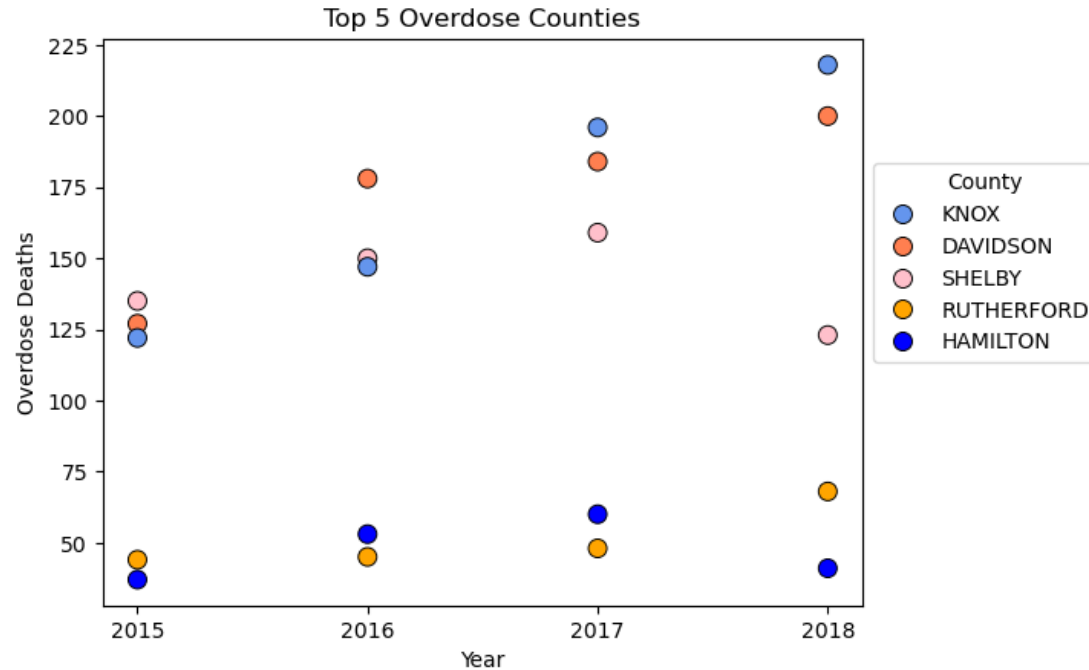
Comparative analysis between Shelby and Davidson Counties

Naming Names: who are the top drug prescribers in each county

Top 10 opioid locations



Overdose Deaths spanning 4 years in TN



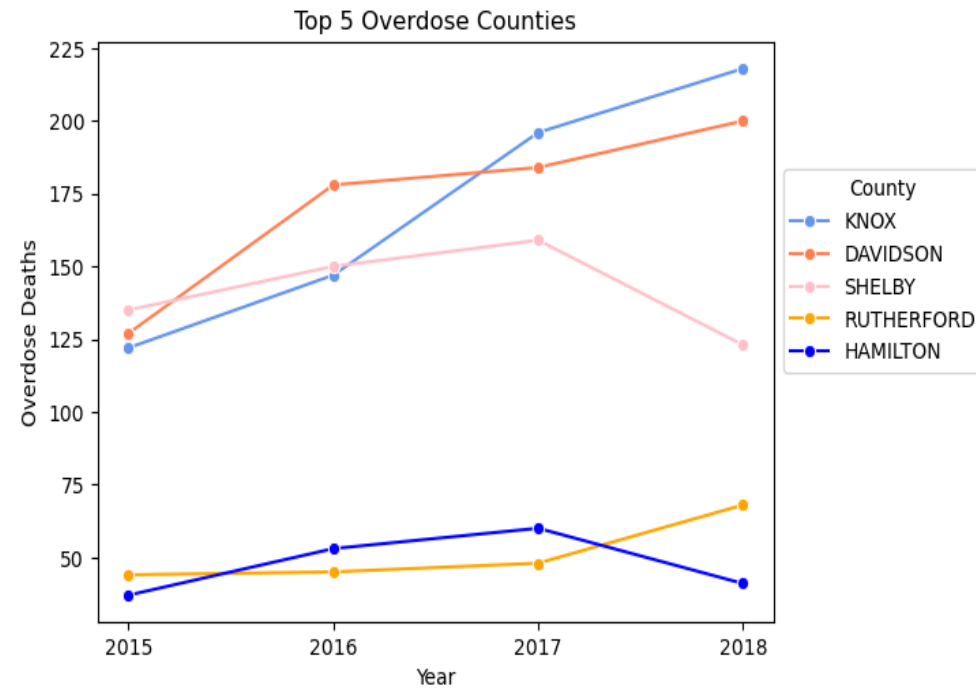
► How has total overdose deaths changed over time?

The overall deaths from drug overdose, regardless of drug, has consistently risen across counties in TN.

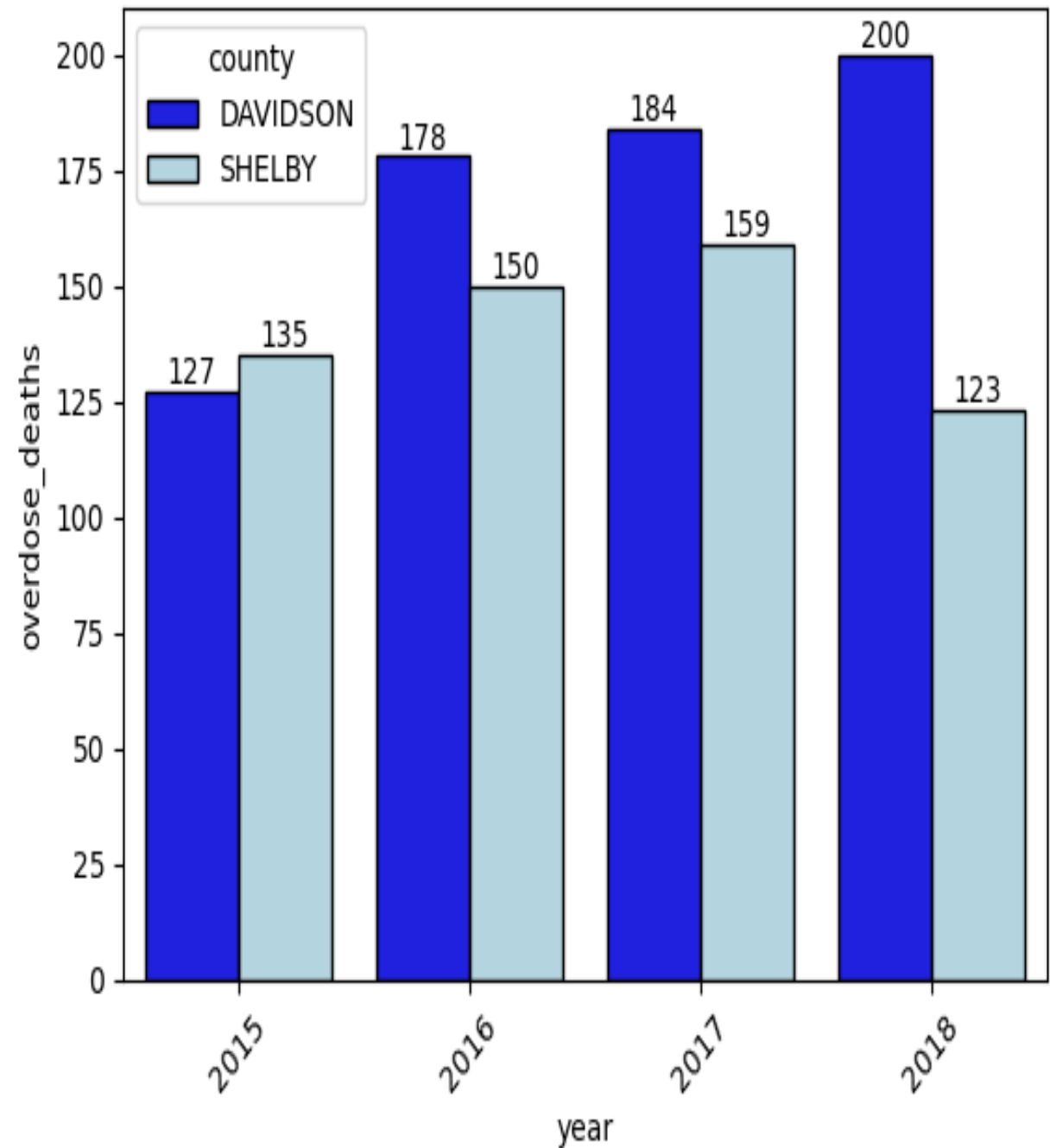
Filtering the data down to the top counties of Shelby and Davidson, you can notice the difference in direction of incidence of drug related deaths.



Overdose Deaths in TN 2015 - 2018



Shelby and Davidson County OD deaths 2015 - 2018



Shelby County:

There was an 11.11% increase from 2015 to 2016, 6% from 2016 to 2017, and a decrease of 22.64% from 2017 to 2018

Linear regression: decreased 2.7 deaths/year on an average

Davidson County:

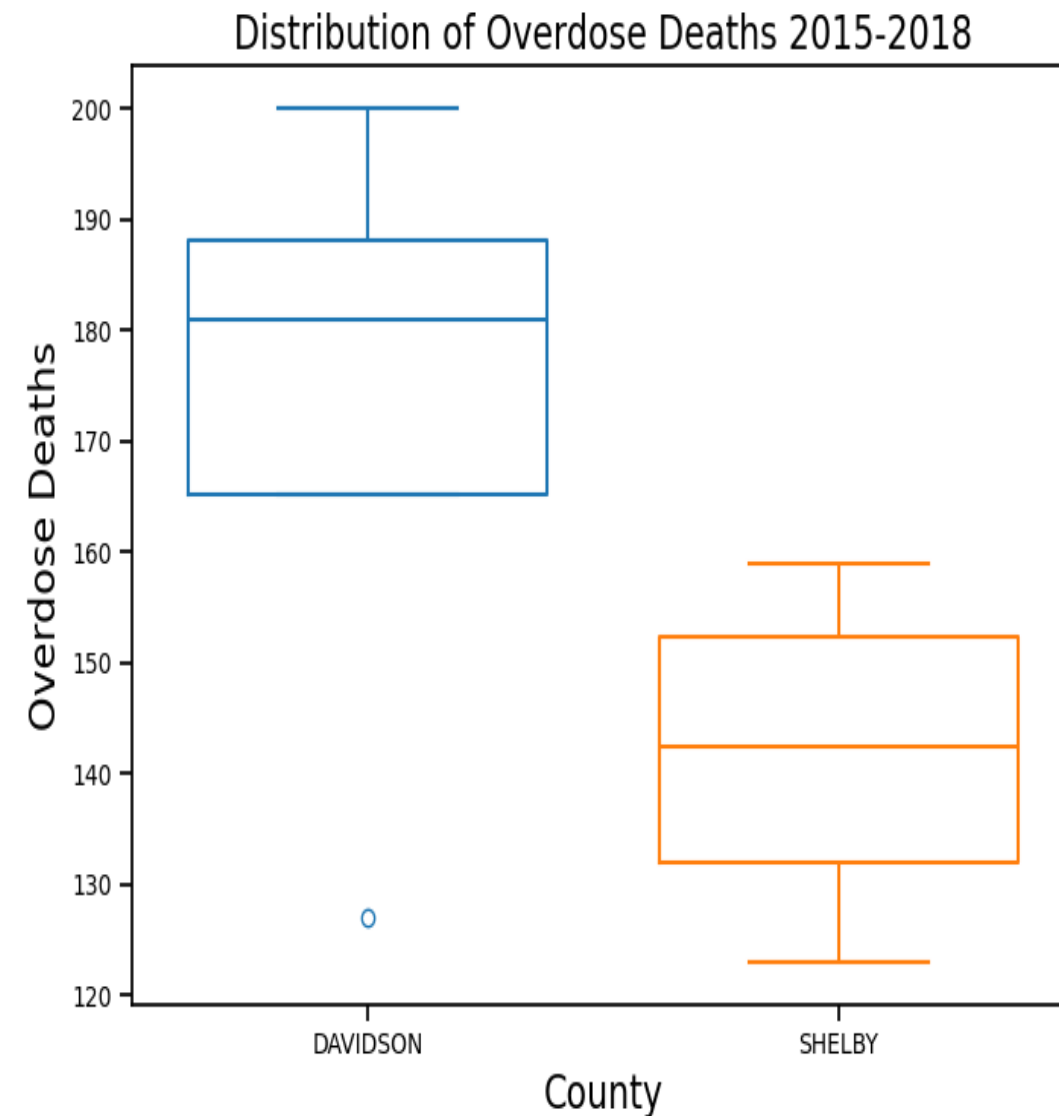
There was a 40% increase in deaths Between 2015 and 2016, , but more moderate increases (3% and 8% respectively) in the following years.

Linear Regression: 22.5 uptrend/year

SHELBY AND DAVIDSON COUNTY OVERDOSE DEATH STATISTICS

overdose_deaths	
count	4.00
mean	172.25
std	31.56
min	127.00
25%	165.25
50%	181.00
75%	188.00
max	200.00

overdose_deaths	
count	4.00
mean	141.75
std	15.95
min	123.00
25%	132.00
50%	142.50
75%	152.25
max	159.00

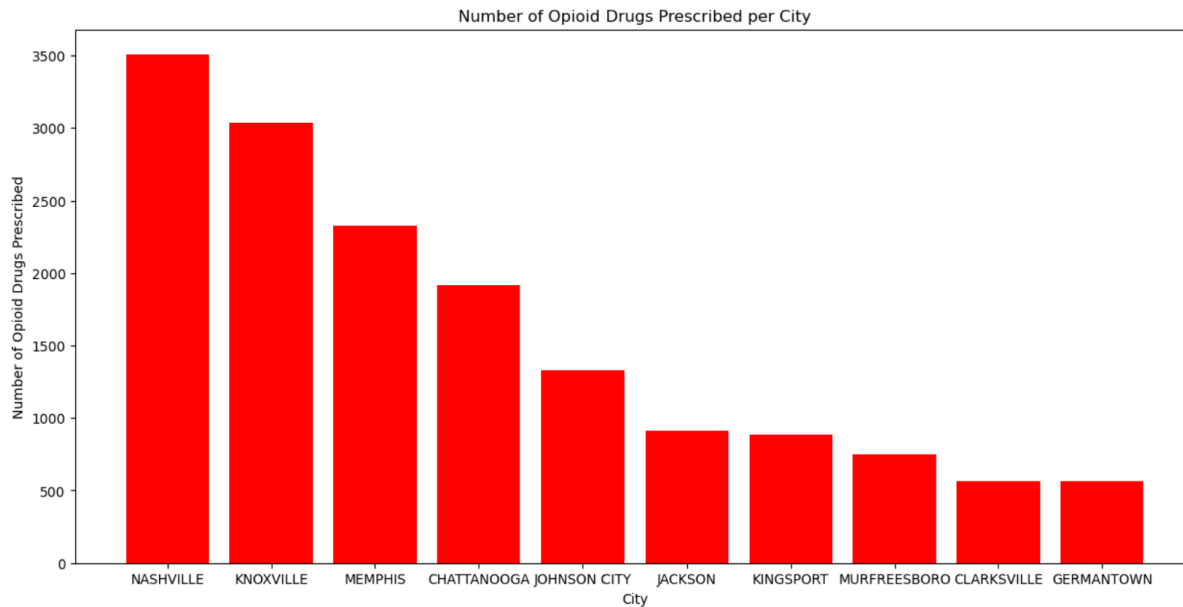


Money Spent on Opioids vs Non-Opioids

- A total of \$3,116,214,457.86 were spent on drugs
- Out of that, only \$105,080,626.37 went to Opioids
- That leaves \$3,011,133,831.49 to be used on Non-Opioid drugs

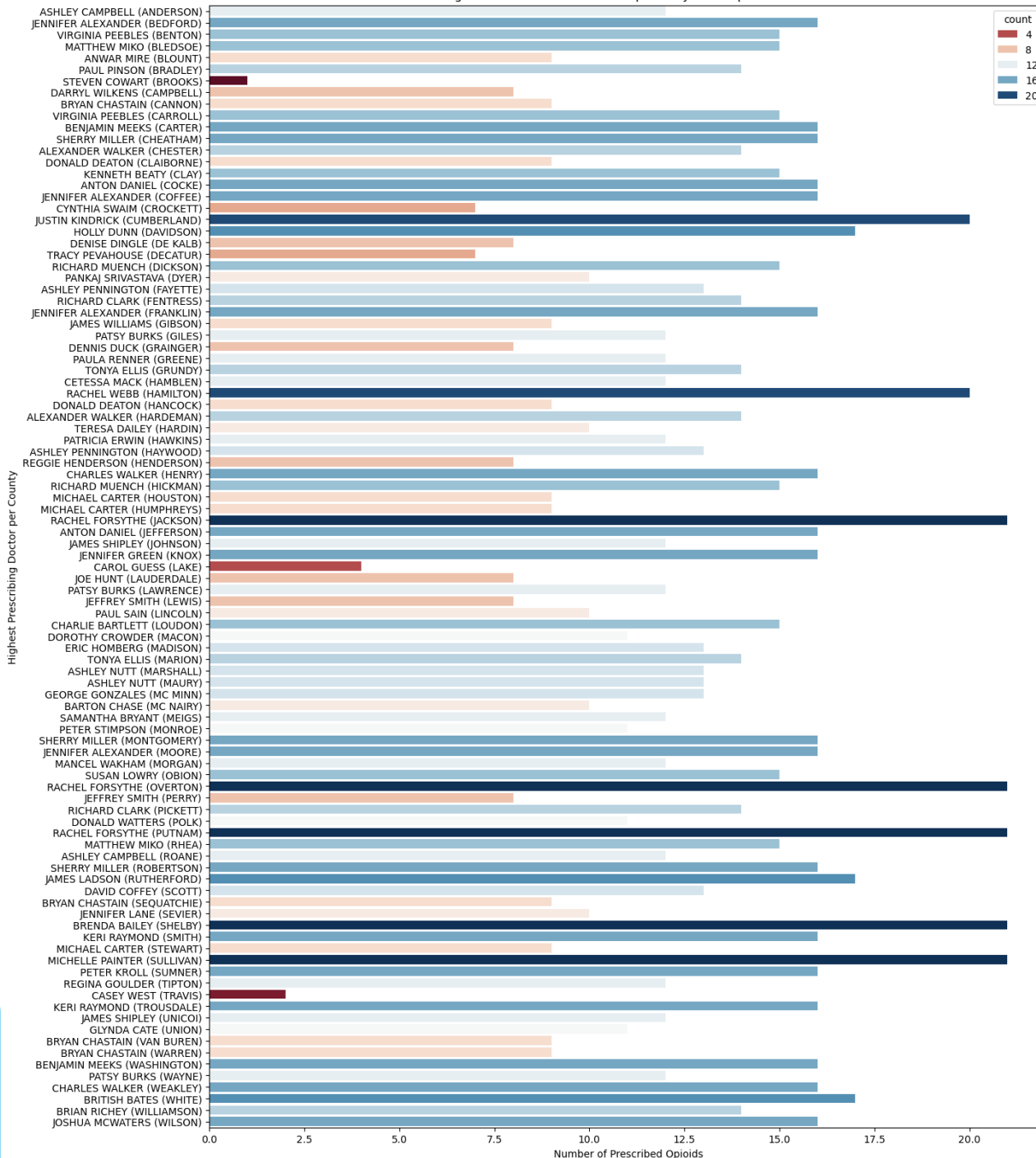
	Total Spent on Drugs	Opioid Drug Flag	Long Acting Opioid Drug Flag
0	\$3,011,133,831.49	N	N
1	\$52,799,965.73	Y	N
2	\$52,280,660.64	Y	Y

Top 10 Opioid Locations



- ▶ Number of opioid prescriptions in various cities
- ▶ Nashville and Knoxville with the highest prescription rates
 - Nashville: 3,505 opioid prescriptions
 - Knoxville: 3,035 opioid prescriptions
- ▶ High and varied prescription rates indicate a need for better oversight and regulation on distribution.
 - Knoxville & Chattanooga: 1,585 opioid prescription difference

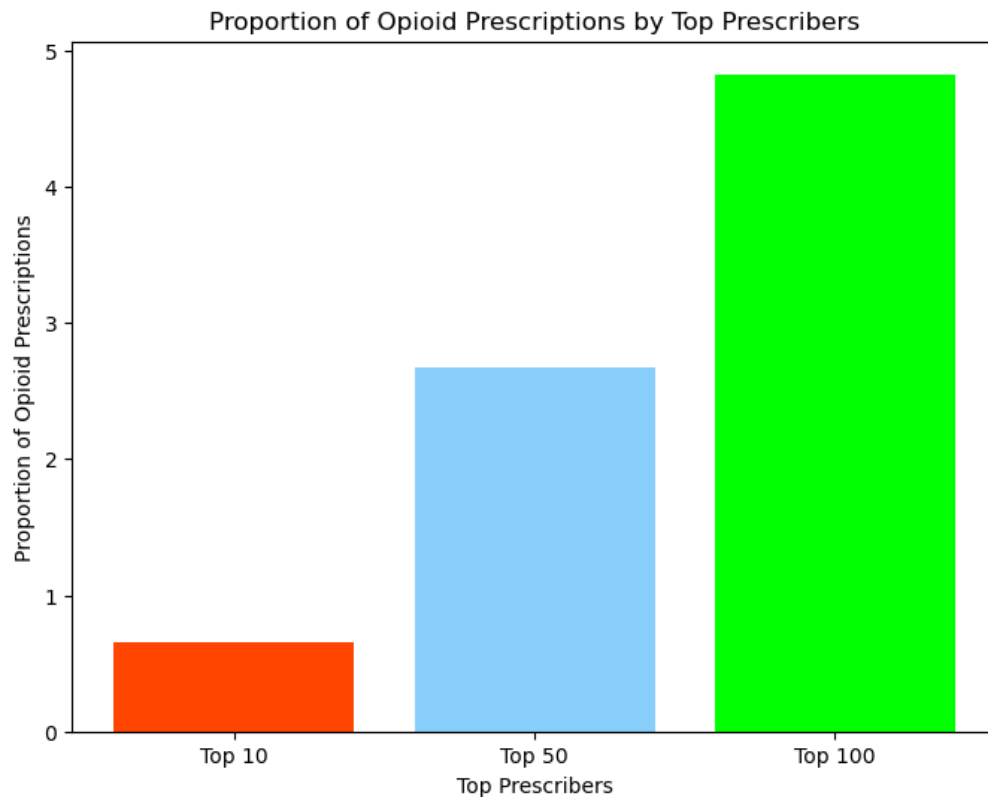
Highest Number of Prescribed Opioids by Doctor per Counties



Top Prescribers

- ▶ Top prescribers in each county
 - Cumberland,
 - Rachel Webb (Hamilton county, Chattanooga)
 - Jackson,
 - Overton,
 - Putnam,
 - Branda Bailey (Shelby county, Memphis & Germantown)
 - Michelle Painter (Sullivan, Kingsport)
 - Holly Dunn (Davidson, Nashville)
 - James Ladson (Rutherford, Murfreesboro)
 - Benjamin Meeks (Carter, Jhonson City)
 - Joshua Mcwater (Wilson)
 - Charles Walker (Weakley)
 - Benjamin Meeks (Washington)
 - Keri Raymond (Trousdale)
- ▶ explain why these high rates are concerning and how they compare to other counties.

Concentration of Opioid Prescriptions Among Top Prescribers



- ▶ **Top 10 Prescribers:** Account for about 1% of all opioid prescriptions. This indicates a high volume of prescriptions from a very small group.
- ▶ **Top 50 Prescribers:** Account around 3% of total opioid prescriptions. Showing a significant increase in influence with just 40 more prescribers.
- ▶ **Top 100 Prescribers:** Account nearly 5% of all opioid prescriptions. Which further emphasizes how concentrated prescribing power is.
- ▶ **Risks:** The high number of prescriptions from a small number of prescribers raises concerns about possible overprescriptions and the potential for misuse and addiction.

FACE THE FACTS

- ▶ Opioids are a class of drugs that include synthetic opioids: fentanyl, oxycodone, hydrocodone (Vicodin), morphine and the illegal drug heroin
- ▶ Reasons for abuse include increase availability used in the chronic pain industry, illicit drug markets, and its use as a refuge from psychological trauma, isolation and hopelessness
- ▶ Signs and symptoms of opioid overdose include:
 - Pinpoint pupils
 - Unconsciousness
 - Difficulty breathing

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