Using Data to Drive Decisions

**Why Data?**

- Removes values and beliefs from the information available to make decisions
- Eliminates terminology gaps between public safety and public health
- Removes “he said/she said” from projects

**Considerations**

- Collection and standardization of process
- Timeliness of analysis and dissemination
- Effective public health and public safety collaboration
- Translation of data to information and strategy
Assessment
Define the problem

Capacity
Align stakeholders
Activate community

Planning
Determine effective and efficient strategies to eliminate the problem

Implementation/Evaluation
Perform quality improvement
Evaluate program success/failure

Sustainability
Obtain grant funding (moving to next phase/temporary)
Build local, state, national support around the strategy
Facilitate third party payment strategies
Population Trend, 2014-2018

Virginia vs. One Care Service Area

2018 Total Virginia population: 8.52 million
2018 One Care service area population: 0.58 million
One Care service area represents 6.8% of the total Virginia population as of 2017.
Population of Virginia has increased 2.5% from 2014-2018.
Population of One Care service area has decreased 2% from 2014-2018.
Population by Age, 2017

USA, Virginia, vs. One Care Service Area

One Care service area has higher than national and state percent of population in the 15-24 age group (higher education) and 55+ age groups.
Of the 22 counties in One Care’s service area:

- 68% have a primary care services shortage (15)
- 100% have a dental services shortage (22)
- 100% have a mental health services shortage (22)
- 68% are a Medically Underserved Area (15)
Population by Race, 2017

USA, Virginia, vs. One Care Service Area

USA Percentage of Population by Race
- White: 73.0%
- Black: 12.7%
- Other: 14.3%

Virginia Percentage of Population by Race
- White: 67.6%
- Black: 19.0%
- Other: 13.4%

One Care Percentage of Population by Race
- White: 94.1%
- Black: 3.5%
- Other: 2.0%
Population by Poverty Status, 2017

USA, Virginia, vs. One Care Service Area

- 1 in 5 people in One Care’s service area lives below the federal poverty.
- People in One Care’s service area have a 75 percent higher poverty incidence than that of Virginia.
Opioid Prescription Rates, 2013-2017

USA, Virginia, vs. One Care Service Area

One Care service area has a significantly higher opioid prescription rate.

Near the Virginia border, Kentucky, Tennessee, and West Virginia also have significantly higher than average opioid prescription rate.

In 2017, Galax and Norton cities had an opioid prescription rate over 6 times higher than Virginia and national averages.
Overdose Deaths, 2013-2017

One Care service area accounted for 11.6% of Virginia overdose deaths in 2013 and 7.6% in 2017.

9.4% (n=10) increase in overdose deaths from 2013-2017.

One Care service area’s overdose death rate is higher than Virginia, but the rate of increase is slower.
Overdose Deaths, 2013-2017

One Care Service Area, All Drugs

Rate of Drug-Related Deaths per 100,000
- 0-5
- 5-10
- 10-20
- >50
- 20-30
Virginia experienced an 80% increase in opioid overdose deaths from 2013 to 2017.

One Care service area experienced a 1% increase in opioid overdose deaths from 2013 to 2017.
Overdose Deaths, 2013-2017

One Care Service Area, All Opioids
Overdose Deaths, 2013-2017

Virginia, Fentanyl and/or Heroin

Fentanyl alone OD death rate increased 300%.
Heroin alone OD death rate fell 25%.
Fentanyl + Heroin OD death rate increased 6600%.
Total Fentanyl and/or Heroin OD death rate increased 200%.
Overdose Deaths by Drug, 2013-2017

Virginia

Cocaine
73% increase

Fentanyl
450% increase

Heroin
57% increase

Prescription Opioids
34% decrease
Opioid Overdose Deaths by Age, 2013-2017

USA vs. Virginia

![Graph showing percent of overdose deaths by age in USA and Virginia from 2013 to 2017.](image-url)
Overdose Deaths by Gender, 2017

USA, Surrounding States, vs. Virginia (ICD 10 Codes X40-X44)

- USA: 68% Male, 32% Female
- KY, WV, TN: 62% Male, 38% Female
- Virginia: 66% Male, 34% Female
Overdose Deaths by Race, 2017

Virginia, Percent of Population vs. Percent of Overdose Deaths
EMS Naloxone Administered, 2013-2017

Virginia vs. One Care Service Area Averages

One Care regions have a 108% increase in EMS Naloxone 2013-2017

Virginia has a 227% increase in EMS Naloxone 2013-2017
EMS Naloxone Administered, 2017

USA vs. Virginia

Axis Title

0-14 15-24 25-34 35-44 45-54 55-64 65-74

Percent of Total Population

USA Population % Virginia Population % USA Naloxone % Virginia Naloxone %
EMS Naloxone Administered, 2013-2017

Virginia vs. One Care Service Area Averages
Hepatitis C Incidence, 2013-2017

Virginia vs. One Care Service Area Averages, 18-30 Year Olds
Neonatal Abstinence Syndrome, 2013-2016

Virginia vs. One Care Service Area Averages
Virginia Drug Arrests have increased 30% from 2015-2017, compared to an 8% increase for the USA.
References

- Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2017 on CDC WONDER Online Database, released December, 2018. Data are from the Multiple Cause of Death Files, 1999-2017, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program.


