Patterns of and Trends in Substance Use
Within and Across the Regions of Florida
Annual Report, 2020

Presented by
Kelly K. Gurka, MPH, PhD
Assistant Professor of Epidemiology
University of Florida

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Additional Acknowledgement

• Gregory D. DeCanio, BS
Introduction
Learning Objectives

After attending this webinar, participants are expected to be able to:

• Describe recent patterns of substance use in Florida overall and by region,

• Identify important trends in substance use in Florida over time, and

• Compare patterns and trends of substance use in Florida with the nation overall.
Introduction

• The behavioral health workforce is tasked with promoting the health and well-being of Floridians through the prevention and treatment of mental health disorders, including those related to substances.

• To effectively target resources to prevent, or delay initiation, of substance use and treat existing substance use disorders, the behavioral health work force at the state, regional, and local level must be aware of the current patterns and trends in substance use across the state.

• Thus, the purpose of this webinar is to present the current distribution of substance use and select consequences based on publicly available data that we gathered and collated.
Methods
Approach: Injury Pyramid for Substance Use

- At Risk Behaviors (e.g. Past Year Drug Use)
- Other Negative Consequences (e.g. Arrests, Crashes)
- Emergency Department Visits
- Hospitalizations
- Death
**Overdose Deaths are the Tip of the Iceberg**

For every 1 prescription or illicit opioid overdose death in 2015, there were...

- **18** people who had a substance use disorder involving heroin
- **62** people who had a substance use disorder involving prescription opioids
- **377** people who misused prescription opioids in the past year
- **2,946** people who used prescription opioids in the past year

Managing Entities (MEs)

• The Florida Department of Children and Families contracts with seven non-profit, behavioral health managing entities throughout the state.

• MEs, through their network of local mental health and substance abuse providers, provide community-based services to their respective regions.
Florida by Region, Managing Entity Region, Circuit, and County
Managing Entity Regions (MERs)

Big Bend Community Based Care, Inc. (BBCBC). Comprised of 18 counties in the Panhandle.

Lutheran Services Florida, Inc. (LSF). Comprised of 23 counties in North Central and Northeast FL.

Central Florida Behavioral Health Network, Inc. (CFBHN). Comprised of 14 counties in Central FL.
Managing Entity Regions (MERs)

Central Florida Cares Health System, Inc. (CFCHS). Comprised of four counties in Central FL.

Southeast Florida Behavioral Network, Inc. (SEFBHN). Comprised of five counties in Southeast FL.

Broward Behavioral Health Coalition, Inc. (BBHC). Broward County.

Data Sources

National
• National Survey of Drug Use and Health (NSDUH) (2002 – 2018), sponsored by the Substance Abuse and Mental Health Services Administration (SAMHSA)*
• Web-based Injury Statistics Query and Reporting System (WISQARS) (2007 – 2018), sponsored by the Centers for Disease Control and Prevention (CDC)
• Wide Ranging Online Data for Epidemiologic Research (WONDER) (1999 – 2018), sponsored by the Centers for Disease Control and Prevention (CDC)

Florida
• Agency for Health Care Administration (AHCA) (2007 – 2018)
• Department of Highway Safety and Motor Vehicles (FLHSMV) (2011 - 2019)
• Drugs Identified in Deceased Persons by Florida Medical Examiners Comissions (MEC) (2003 - 2018), sponsored by the Florida Department of Law Enforcement (FDLE)
• Uniform Annual Crime Reports (2000 - 2019), sponsored by the Florida Department of Law Enforcement (FDLE)
• Youth Substance Abuse Survey (FYSAS) (2000 – 2019), sponsored by the Florida Department of Children and Families (DCF)
Findings
Population
Data Sources – Population

Florida Data

Population

Estimated total population of Florida in 2019 was 21,268,553 according to the Florida Bureau of Economic and Business Research.

Adults, aged 18+ years: 17,042,026 (80.1%)
Youth, aged 12-17 years: 1,445,839 (6.8%)
Figure 4. Estimated population (excluding inmates), by Managing Entity Region, Florida, 2019. Total Population = 21,091,609. Source: Bureau of Economic and Business Research.
At-Risk Behaviors
Data Sources – Health Behaviors

Adult Data

National Data
• National Survey of Drug Use and Health (NSDUH) (2002 – 2018), sponsored by the Substance Abuse and Mental Health Services Administration (SAMHSA)

Florida Data
• National Survey of Drug Use and Health (NSDUH) (2002 – 2018), sponsored by the Substance Abuse and Mental Health Services Administration (SAMHSA)
Data Sources – Health Behaviors

Youth Data

National Data

• National Survey of Drug Use and Health (NSDUH) (2002 – 2018), sponsored by the Substance Abuse and Mental Health Services Administration (SAMHSA)

Florida Data

• Florida Youth Substance Abuse Survey (FYSAS) (2000 – 2019), sponsored by the Florida Department of Children and Families (DCF)
• National Survey of Drug Use and Health (NSDUH) (2002 – 2018), sponsored by the Substance Abuse and Mental Health Services Administration (SAMHSA)
Substance Use

Adults

- Generally, substance use among adult Floridians has been stable over time, with the exception of marijuana use, which has been increasing slowly since 2006.
- Among adult Floridians, the prevalence of use of the substances reported here is similar to the prevalence for the nation as a whole.
- Little to no differences by Managing Entity Region (MER).
Substance Use

Youth

• Generally, the prevalence of current substance use among Florida youth has been stable over time.

• However, lifetime use is declining over time for most substances reported here, with a few notable exceptions in the last year for which data are available.

• Among Florida youth, the prevalence of use of the substances reported here is generally similar to or less than the prevalence for the nation as a whole.

• Few exceptions to the lack of difference by MER.

• Consistent differences in the prevalence of substances by data source.
Past-Year Pain Reliever Misuse Among Adults, US and FL, 2002 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Nonmedical Use of Pain Relievers Among Adults, FL and Managing Entity Regions, 2002 - 2014

Year

Prevalence (%)
Past-Year Heroin Use Among Adults, US and FL, 2013 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Heroin Use Among Youth, US and FL, 2013 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Heroin Use Among Youth, Lifetime and Past Month, US and FL, 2006 - 2019

Past Year Cocaine Use Among Adults, US and FL, 2002 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Adults, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Adults, FL and BBCBC, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Adults, FL and CFCHS, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Adults, FL and LSF, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Adults, FL and BBHC, 2002 - 2016

Year

Prevalence (%)

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Adults, FL and SFBHN, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Youth, US and FL, 2002 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Cocaine Use Among Youth, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Cocaine Use Among Youth, Lifetime and Past Month, US and FL, 2006 - 2019

Lifetime Cocaine Use Among Youth, FL and Managing Entity Regions, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and SEFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and BBCBC, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and CFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and LSF, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and SFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and CFCHS, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Cocaine Use Among Youth, FL and BBHC, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Cocaine Use Among Youth, FL and Managing Entity Regions, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Year Methamphetamine Use Among Adults, US and FL, 2015 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Methamphetamine Use Among Youth, US and FL, 2015 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, US and FL, 2006 - 2019

Prevalence (%) of Lifetime Methamphetamine Use Among Youth in Florida and Managing Entity Regions from 2004 to 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Methamphetamine Use Among Youth, FL and Managing Entity Regions, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and BBCBC, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and LSF, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and CFBHN, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and CFCHS, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and SEFBHN, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and BBHC, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Methamphetamine Use Among Youth, Lifetime and Past Month, FL and SFBHN, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Marijuana Use Among Adults, Past Year and Past Month, US and FL 2002 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Marijuana Use Among Adults, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Month Marijuana Use Among Adults, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and BBCBC, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and LSF, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and CFCHS, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and CFBHN, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and SEFBHN, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and BBHC, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Adults, Past Year and Past Month, FL and SFBHN, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Youth, Past Year and Past Month, US and FL 2002 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Year Marijuana Use Among Youth, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Month Marijuana Use Among Youth, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Marijuana Use Among Youth, Lifetime and Past Month, US and FL, 2006 - 2019

Lifetime Marijuana Use Among Youth, FL and BBCBC, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Marijuana Use Among Youth, FL and LSF, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Marijuana Use Among Youth, FL and CFBHN, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Marijuana Use Among Youth, FL and SEFBHN, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Marijuana Use Among Youth, FL and CFCHS, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Marijuana Use Among Youth, FL and BBHC, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Marijuana Use Among Youth, FL and SFBHN, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Marijuana Use Among Youth, FL and Managing Entity Regions, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Synthetic Marijuana Use Among Youth, FL and Managing Entity Regions, 2011 - 2019

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Synthetic Marijuana Use Among Youth, FL and Managing Entity Regions, 2011 - 2019

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Alcohol Use Among Adults, US and FL 2002 - 2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Month Alcohol Use Among Adults, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Month Alcohol Use Among Youth, US and FL 2002-2018

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Past Month Alcohol Use Among Youth, FL and Managing Entity Regions, 2002 - 2016

Data Source: SAMHSA National Survey on Drug Use and Health (NSDUH). [Online]
Lifetime Alcohol Use Among Youth, FL and Managing Entity Regions, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Alcohol Use Among Youth, FL and Managing Entity Regions, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Inhalants Use Among Youth, FL and Managing Entity Regions, 2004 - 2018

[Graph showing data on lifetime inhalants use among youth, FL and managing entity regions from 2004 to 2018.]

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Past Month Inhalants Use Among Youth, FL and Managing Entity Regions, 2004 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Hallucinogens Use Among Youth, Lifetime and Past Month, US and FL, 2006 - 2019

Lifetime Hallucinogens Use Among Youth, FL and CFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

*LSD, PCP, or Hallucinogenic Mushroom Use
Lifetime Hallucinogens Use Among Youth, FL and BBCBC, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

*LSD, PCP, or Hallucinogenic Mushroom Use
**Lifetime Hallucinogens Use Among Youth, FL and SFBHN, 2010 - 2018**

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

*LSD, PCP, or Hallucinogenic Mushroom Use*
Lifetime Hallucinogens Use Among Youth, FL and SEFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Hallucinogens Use Among Youth, FL and CFCHS, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Hallucinogens Use Among Youth, FL and BBHC, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

*LSD, PCP, or Hallucinogenic Mushroom Use
Past Month Hallucinogens Use Among Youth, FL and Managing Entity Regions, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online] *LSD, PCP, or Hallucinogenic Mushroom Use
Lifetime Club Drugs Use Among Youth, FL and Managing Entity Regions, 2010 - 2019

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

* Ecstasy, Rohypnol, GHB, or Ketamine Use
Lifetime Club Drugs Use Among Youth, FL and BBCBC, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Lifetime Club Drugs Use Among Youth, FL and LSF, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

* Ecstasy, Rohypnol, GHB, or Ketamine Use
Lifetime Club Drugs Use Among Youth, FL and CFBHN, 2010 - 2018

Prevalence (%)

Year


CFBHN FL

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online] * Ecstasy, Rohypnol, GHB, or Ketamine Use
Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online] * Ecstasy, Rohypnol, GHB, or Ketamine Use

Lifetime Club Drugs Use Among Youth, FL and CFCHS, 2010 - 2018

Prevalence (%)
Lifetime Club Drugs Use Among Youth, FL and SFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

* Ecstasy, Rohypnol, GHB, or Ketamine Use
Lifetime Club Drugs Use Among Youth, FL and SEFBHN, 2010 - 2018

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]
Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online] * Ecstasy, Rohypnol, GHB, or Ketamine Use
Past Month Club Drugs Use Among Youth, FL and Managing Entity Regions, 2010 - 2019

Prevalence (%) vs Year

Data Source: Florida DCF Florida Youth Substance Abuse Survey (FYSAS). [Online]

* Ecstasy, Rohypnol, GHB, or Ketamine Use
Other Consequences
Data Sources – Other Consequences

Florida Data

- Florida Uniform Annual Crime Reports (2000 - 2019), sponsored by the Florida Department of Law Enforcement (FDLE)
Arrests and Citations

Arrests

• Drug arrests are a fairly small fraction of overall arrests.
• Despite recent declines in arrests overall, drug arrests have remained stable over time.
• Some variability by MER, especially over the last five years.

Citations

• Citations for DUI have been on a slow, but steady decline over time.
• Similar variability to arrests among MER-specific rates of DUI citations.
Total Arrests, FL and Managing Entity Regions, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and Managing Entity Regions, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and Managing Entity Regions, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and CFBHN, 2000 - 2019

Rate per 100,000

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and CFCHS, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and LSF, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and SEFBHN, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and BBCBC, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and BBHC, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
Drug Arrests, FL and SFBHN, 2000 - 2019

Data Source: FDLE Annual Uniform Crime Reports (UCR). [Online]
DUI Citations, FL and Managing Entity Regions, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
DUI Citations, FL and CFCHS, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
DUI Citations, FL and LSF, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
DUI Citations, FL and SEFBHN, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
DUI Citations, FL and CFBHN, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
DUI Citations, FL and BBHC, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
DUI Citations, FL and SFBHN, 2011 - 2019

[Graph showing the rate of DUI citations from 2011 to 2019 for Florida (FL) and SFBHN, with a downward trend for both.]

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
My Motor Vehicle Crashes, Injuries, and Fatalities

Alcohol-involved

• After a sharp decline in 2013, motor vehicle crashes (MVC) involving alcohol have continued to decline slowly, with a lot of variability in the MER-specific rates of crash.
  • Rates of MVC generally decline as you move south through the state. Rates in the panhandle (BBCBC) are above the FL rate, and rates in South FL (SFBHN) and Broward (BBHC) are below the state rate.

• Injuries resulting from alcohol-involved MVC have experienced a similar decline over the entire period, with a smaller degree of MER-specific variability.
  • General pattern the same as for crashes; as you move south through the MER, rates decline.

• Rate of crashes that involve a fatality is a small proportion of overall rate; these rates have also been declining over time.
  • Pattern of MER-specific MVC fatality rates differ from the crash and injury patterns. LSF has highest rate, with BBCBC rates similar to that of CFCHS & CFBHN. BBHC & SFBN have lower rates of fatality as well.
Alcohol Confirmed Crashes, FL and Managing Entity Regions, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Injuries, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Fatalities, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Fatalities, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Crashes and Fatalities, FL and LSF, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Crashes and Fatalities, FL and CFCHS, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Crashes and Fatalities, FL and SEFBHN, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Crashes and Fatalities, FL and BBHC, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol Confirmed Crashes and Fatalities, FL and SFBHN, 2011 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug-involved
• Though drug-involved MVC are less frequent than alcohol-involved MVC, they are on the rise.
  • Differences in the MER-specific rates are similar to the alcohol-involved crashes, with the highest rates observed in the northern part of the state (BBCBC and LSF) and the lowest in the southern part of FL.
• Based on the data available, drug-involved MVC that result in injury are the majority of drug-involved MVC.
  • Differences in the MER-specific rates are similar to the alcohol-involved crashes, with the highest rates observed in the northern part of the state (BBCBC and LSF) and the lowest in the southern part of FL.
• Based on the data available, drug-involved MVC that result in fatality are the majority of drug-involved MVC.
  • Differences in the MER-specific rates are similar to the alcohol-involved crashes, with the highest rate in the LSF region and the lowest rates in the southern-most part of the state.
Drug Confirmed Crashes, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug Confirmed Injuries, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug Confirmed Crashes and Fatalities, FL and BBCBC, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug Confirmed Crashes and Fatalities, FL and LSF, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug Confirmed Crashes and Fatalities, FL and CFBHN, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug Confirmed Crashes and Fatalities, FL and CFCHS, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Drug Confirmed Crashes and Fatalities, FL and SEFBHN, 2013 - 2019

Rate per 100,000

Year


SEFBHN - Crashes  
SEFBHN - Fatalities  
FL - Crashes  
FL - Fatalities

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Motor Vehicle Crashes, Injuries, and Fatalities

Drug and alcohol-involved

• MVC involving both alcohol and drugs occur less frequently than the two previous categories and have been fairly stable over time.
  • Differences in the MER-specific rates are similar to the alcohol-involved and drug-involved crashes, with the highest rates observed in the northern part of the state (BBCBC and LSF) and the lowest in the southern part of FL.

• Based on the data available, alcohol and drug-involved MVC that result in injury are the majority of alcohol and drug-involved MVC.
  • There is less variability by MER in injuries than crashes, but similar differences in the rates by MER exist for alcohol and drug-involved MVC.

• Based on the data available, drug-involved MVC that result in fatality are the majority of alcohol and drug-involved MVC.
  • The LSF region has the highest rates in the state.
Alcohol & Drug Confirmed Crashes, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Injuries, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Fatalities, FL and Managing Entity Regions, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Crashes and Fatalities, FL and LSF, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Crashes and Fatalities, FL and BBCBC, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Crashes and Fatalities, FL and CFCHS, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Crashes and Fatalities, FL and BBHC, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Alcohol & Drug Confirmed Crashes and Fatalities, FL and SFBHN, 2013 - 2019

Data Source: Florida Department of Highway Safety and Motor Vehicles (FLHSMV). [Online]
Morbidity
Data Sources – Morbidity

United States Data
  • Web-based Injury Statistics Query and Reporting System (WISQARS) (2007 – 2018), sponsored by the Centers for Disease Control and Prevention (CDC)

Florida Data
  • Florida Agency for Health Care Administration (AHCA) (2007 – 2018)
Hospitalizations

• Poisoning hospitalizations – comprised primarily of drug poisonings – declined in the two most recent years of data (2017 – 2018) in Florida, a trend also seen at the national level.

• Poisoning hospitalization rates in FL have been more stable over time than those for the nation as a whole.

• The gap between the national rate and the rate in Florida was about the same in 2017 – 2018, following a narrowing in the previous year, with Florida experiencing fewer hospitalizations per 100,000 population than the nation.

• MER variation exists, with poisoning hospitalization rates for the LSF and CFBHN regions exceeding the state rate. The rate for the SFBHN region is the lowest.
  • Same pattern observed for drug poisonings in recent years.
Hospitalization due to Poisoning, Overall and Drug-specific, US and FL, 2007 - 2018

Hospitalization due to Drug Poisoning, FL and Managing Entity Regions, 2016 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Hospitalization due to Poisoning, Overall & Drug-Specific, FL and LSF, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Hospitalization due to Poisoning, Overall & Drug-Specific, FL and CFBHN, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Hospitalization due to Poisoning, Overall & Drug-Specific, FL and CFCHS, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Hospitalization due to Poisoning, Overall & Drug-Specific, FL and SEFBHN, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Hospitalization due to Poisoning, Overall & Drug-Specific, FL and BBHC, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Hospitalization due to Poisoning, Overall & Drug-Specific, FL and SFBHN, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits

- Decline in emergency department visits due to poisoning (and drug poisoning) from 2017 to 2018 was observed in both FL and the US.
- Decline follows a four-year rise in FL, but FL rates have been much more stable than the rates in the nation, that saw a steady, and larger increase in the five years prior to the decline.
- Less MER variability in ED visits.
  - SEFBHN rates increased over those for the rest of the state in 2016 and 2017 but declined again in 2018.
  - Both the BBCBC and CFCHS regions experienced an uptick in ED visits in 2018, unlike the other regions.
Emergency Department Visits due to Poisoning, Overall and Drug-specific, US and FL, 2007 - 2018

Emergency Department Visits due to Poisoning, FL and Managing Entity Regions, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Drug Poisoning, FL and Managing Entity Regions, 2016 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and SEFBHN, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and LSF, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and BBHC, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and CFBHN, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and CFCHS, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and BBCBC, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Emergency Department Visits due to Poisoning, Overall and Drug-specific, FL and SFBHN, 2007 - 2018

Data Source: Florida Agency for Health Care Administration (AHCA). [Online, FL Health CHARTS Dashboard]
Mortality
Data Sources – Mortality

US
- Wide Ranging Online Data for Epidemiologic Research (WONDER) (1999 – 2018), sponsored by the Centers for Disease Control and Prevention (CDC)

Florida
- Drugs Identified in Deceased Persons by Florida Medical Examiners Commissions (MEC) (2003 - 2018), sponsored by the Florida Department of Law Enforcement (FDLE)
- Wide Ranging Online Data for Epidemiologic Research (WONDER) (1999 – 2018), sponsored by the Centers for Disease Control and Prevention (CDC)
Substance-Related Mortality

• Following a four-year increase in the rate of drug poisoning death in the state of Florida, the state, as well as the nation, saw a decline in drug poisoning mortality in 2018.
  • Mortality rate for 2018 remains over three times the rate for 1999.

• Early in the current epidemic of fatal drug poisonings, the mortality in Florida exceeded that of the US overall.

• After a decline in the early 2010s, during which the mortality rate in FL fell below that of the Nation, the rate in FL began trending up again.

• For the first time in nearly two decades, the rate of fatal drug poisonings in the nation declined; the same decline occurred in FL.
Age-Adjusted Mortality Rate, Drug Poisoning, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Mortality - Opioids

• Opioids remain the most common cause of death among fatal drug poisonings across the state and the nation.
• Patterns and trends in overall drug poisoning rates driven by opioids.
Age-Adjusted Mortality Rate, Any Opioid, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Mortality - Opioids

• However, the specific opioid(s) driving the trends has changed over time.

• The epidemic has been described as having three waves\(^1\)
  • Prescription opioids
  • Heroin
  • Synthetic opioids (primarily illicitly produced fentanyl)

Age-Adjusted Mortality Rate, Natural or Semi-Synthetic Opioid, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Age-Adjusted Mortality Rate, Heroin, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Rate per 100,000

Age-Adjusted Mortality Rate, Synthetic Opioid*, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]

* Excludes methadone.
Mortality - Stimulants

• Fatal drug poisonings due to stimulants have been recently increasing across the nation as well.

• Florida has experienced a nearly parallel rise with the US, experiencing rates similar to that of the nation as a whole.
Age-Adjusted Mortality Rate, Cocaine, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Age-Adjusted Mortality Rate, Psychostimulants, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]

* Excludes Cocaine.
Mortality – Alcohol and Cannabis

• Fatal drug poisonings due to alcohol comprise a minority of poisoning deaths, and the incidence of these deaths has remained largely unchanged over time.

• Poisonings are a fraction of the deaths that can be directly or indirectly attributable to alcohol use.

• Fatal drug poisoning due to cannabis are even rarer, though FL saw an increase in the last year, 2018.
Age-Adjusted Mortality Rate, Alcohol Poisoning, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Age-Adjusted Mortality Rate, Alcohol Poisoning, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Age-Adjusted Mortality Rate, Cannabis, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]
Rate per 100,000

Age-Adjusted Mortality Rate, Cannabis, US and FL, 1999 - 2018

Data Source: CDC Wide Ranging Online Data for Epidemiologic Research (WONDER). [Online]

* Missing Points Indicate Suppressed Data
Kratom Detected Deaths, FL, 2014 - 2019

Data Source: FDLE MEC Drugs in Deceased Persons Report. [Online]

* 2019 data is for January – June 2019
Data Source: FDLE MEC Drugs in Deceased Persons Report. [Online]

* 2019 data are for January – June 2019
Top 10 Co-Occurring Substances Among Kratom Detected Deaths, FL, 2018

- **Fentanyl**: 57.6%
- **Cocaine**: 38.8%
- **Fentanyl Analogs**: 29.4%
- **Alprazolam**: 24.7%
- **Cannabinoids**: 21.2%
- **Ethanol**: 21.2%
- **Morphine**: 21.2%
- **Heroin**: 16.5%
- **Clonazepam**: 15.3%
- **Oxycodone**: 11.8%
## Polysubstance Involvement

<table>
<thead>
<tr>
<th>Year</th>
<th>Any Drug Involved</th>
<th>Multiple Drugs Involved</th>
<th>% Multiple Drugs Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>6747</td>
<td>3233</td>
<td>47.9</td>
</tr>
<tr>
<td>2004</td>
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</tr>
<tr>
<td>2006</td>
<td>7729</td>
<td>4019</td>
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<tr>
<td>2007</td>
<td>8596</td>
<td>4571</td>
<td>53.2</td>
</tr>
<tr>
<td>2008</td>
<td>8536</td>
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<td>2010</td>
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<td>5143</td>
<td>57.4</td>
</tr>
<tr>
<td>2011</td>
<td>8619</td>
<td>4774</td>
<td>55.4</td>
</tr>
<tr>
<td>2012</td>
<td>8329</td>
<td>4451</td>
<td>53.4</td>
</tr>
<tr>
<td>2013</td>
<td>8226</td>
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<td>2014</td>
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<td>2016</td>
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<td>7335</td>
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<td>2017</td>
<td>12436</td>
<td>7861</td>
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<tr>
<td>2018</td>
<td>12075</td>
<td>7426</td>
<td>61.5</td>
</tr>
</tbody>
</table>

Data Source: FDLE MEC Drugs in Deceased Persons Report. [Online]
### Top 10 Co-Occurring Substances Among Fentanyl Caused Deaths, FL, 2018

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Co-Occurrence Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cocaine</td>
<td>46.4%</td>
</tr>
<tr>
<td>Morphine</td>
<td>42.4%</td>
</tr>
<tr>
<td>Fentanyl Analogs</td>
<td>36.7%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>25.0%</td>
</tr>
<tr>
<td>Heroin</td>
<td>24.1%</td>
</tr>
<tr>
<td>Alprazolam</td>
<td>21.3%</td>
</tr>
<tr>
<td>Cannabinoids</td>
<td>18.5%</td>
</tr>
<tr>
<td>Amphetamine</td>
<td>13.5%</td>
</tr>
<tr>
<td>Methamphetamine</td>
<td>13.4%</td>
</tr>
</tbody>
</table>

### Top 10 Co-Occurring Substances Among Fentanyl Analogs Caused Deaths, FL, 2018

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Co-Occurrence Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fentanyl</td>
<td>79.3%</td>
</tr>
<tr>
<td>Cocaine</td>
<td>48.9%</td>
</tr>
<tr>
<td>Morphine</td>
<td>48.9%</td>
</tr>
<tr>
<td>Heroin</td>
<td>26.1%</td>
</tr>
<tr>
<td>Alprazolam</td>
<td>23.9%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>20.7%</td>
</tr>
<tr>
<td>Cannabinoids</td>
<td>19.6%</td>
</tr>
<tr>
<td>Amphetamine</td>
<td>13.2%</td>
</tr>
<tr>
<td>Methamphetamine</td>
<td>12.2%</td>
</tr>
</tbody>
</table>

### Top 10 Co-Occurring Substances Among Heroin Caused Deaths, FL, 2018

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Co-Occurrence Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morphine</td>
<td>54.0%</td>
</tr>
<tr>
<td>Fentanyl</td>
<td>46.9%</td>
</tr>
<tr>
<td>Codeine</td>
<td>29.9%</td>
</tr>
<tr>
<td>Cocaine</td>
<td>28.3%</td>
</tr>
<tr>
<td>Analytes</td>
<td>22.9%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>22.9%</td>
</tr>
<tr>
<td>Fentanyl Analogs</td>
<td>19.8%</td>
</tr>
<tr>
<td>Alprazolam</td>
<td>17.5%</td>
</tr>
<tr>
<td>Cannabinoids</td>
<td>17.5%</td>
</tr>
<tr>
<td>Amphetamine</td>
<td>10.3%</td>
</tr>
<tr>
<td>Methamphetamine</td>
<td>9.6%</td>
</tr>
</tbody>
</table>

### Top 10 Co-Occurring Substances Among Cocaine Caused Deaths, FL, 2018

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Co-Occurrence Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methamphetamine</td>
<td>54.0%</td>
</tr>
<tr>
<td>Fentanyl</td>
<td>46.9%</td>
</tr>
<tr>
<td>Codeine</td>
<td>33.8%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>29.9%</td>
</tr>
<tr>
<td>Morphine</td>
<td>28.3%</td>
</tr>
<tr>
<td>Fentanyl Analogs</td>
<td>22.9%</td>
</tr>
<tr>
<td>Heroin</td>
<td>19.8%</td>
</tr>
<tr>
<td>Alprazolam</td>
<td>17.5%</td>
</tr>
<tr>
<td>Cannabinoids</td>
<td>17.5%</td>
</tr>
<tr>
<td>Amphetamine</td>
<td>10.3%</td>
</tr>
<tr>
<td>Methamphetamine</td>
<td>9.6%</td>
</tr>
</tbody>
</table>

Data Source: FDLE MEC Drugs in Deceased Persons Report. [Online]
Top 10 Co-Occurring Substances Among Methamphetamine Caused Deaths, FL, 2018

- 79.0% Amphetamine
- 45.6% Fentanyl
- 30.4% Morphine
- 29.7% Cocaine
- 22.8% Analytes
- 19.4% Cannabinoids
- 16.3% Fentanyl Analogs
- 16.0% Heroin
- 15.5% Ethanol
- 15.2% Alprazolam

Top 10 Co-Occurring Substances Among Ethanol Caused Deaths, FL, 2018

- 35.3% Fentanyl
- 35.2% Cocaine
- 18.9% Analytes
- 18.6% Morphine
- 15.2% Alprazolam
- 14.9% Heroin
- 12.2% Fentanyl Analogs
- 11.2% Cannabinoids
- 9.9% Oxycodone
- 7.6% Codeine

Data Source: FDLE MEC Drugs in Deceased Persons Report. [Online]
Conclusions

• Substance use overall is stable among adult Floridians and declining among the youth of Florida.

• Rates of poisoning hospitalization and ED visits have been steadier over time in FL than the nation, with decreases being observed in the latest years, which is largely consistent with the use trends.

• Though drug (and opioid-specific) poisonings declined in 2018 for the first time since 2013 in Florida (and at least 1999 nationally), an increase in deaths due to psychostimulants was observed. Polysubstance continues to be involved in an increasing number of drug poisoning deaths, particularly related to opioids and stimulants.
Questions?

Contact:
Kelly K. Gurka, MPH, PhD
kgurka@ufl.edu