

Presentation Slides for Mortality Data through 2021 10.2022

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October 2022

## **Mortality Analysis – Key Points**

#### For the 12 months ending December 2021, CDC projects for all ages:

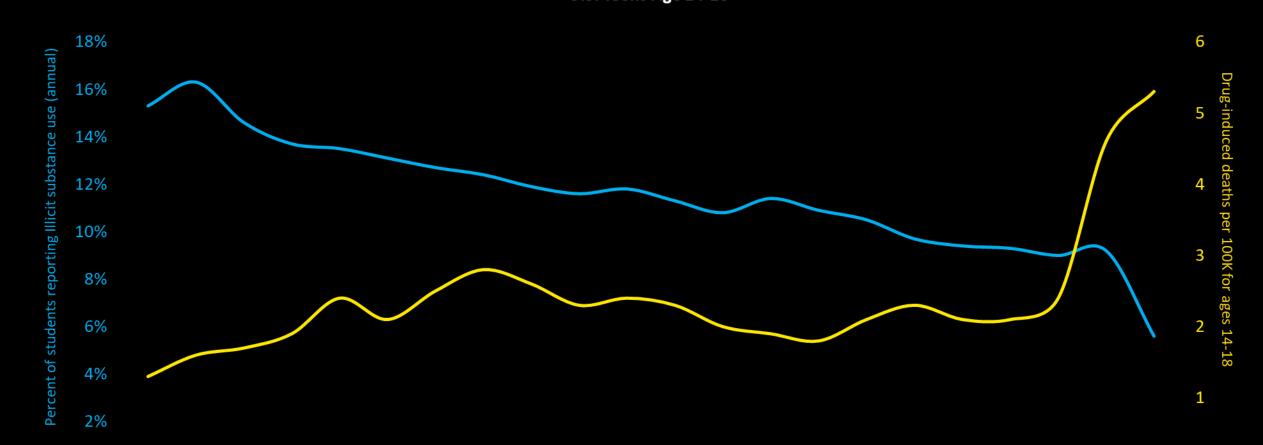
- 107K-109K total drug-induced deaths, +16% vs. prior year.
- Over 72K (66%) of these deaths involved fentanyl & other synthetic opioids, mostly illicit, and often in combination with other drugs; this is +26% vs. prior year.

#### Youth (Age 14-23):

- In 2021, 6,000 youth will have died from drugs with fentanyl involved, 4,800 of them with fentanyl involved, 79% of all youth drug death. Drug deaths are second behind car accidents in accidental deaths, about equal to homicide & suicides in leading overall deaths.
- Youth drug deaths have quadrupled over 20 years, driven recently by Fentanyl involvement which has grown over 6X since 2015 (+558%).
- Meanwhile, in the same 5 years, deaths involving Meth, Cocaine, Heroin, Benzos, & Legit Opioids combined have been mostly flat (+16%).
- Fentanyl is involved in more youth death than all other drug types combined; many deaths involve multiple drugs.
- Since 2018, Teen (14-18) drug deaths have grown faster than any other age group (+152%) driven by fentanyl (+356%); this is about 3x faster than the U.S. all ages growth rates.
- Counterfeit pill seizures have grown 50-fold since beginning of 2018 to end of 2021, over 10M pills per year. Estimated 40% of the pills have a potentially lethal dose and essentially zero pills on the street are legit.

# Street Drugs & Youth: A Surprising Trend

Illicit Substance Use vs. Drug-induced Mortality
U.S. Teens Age 14-18

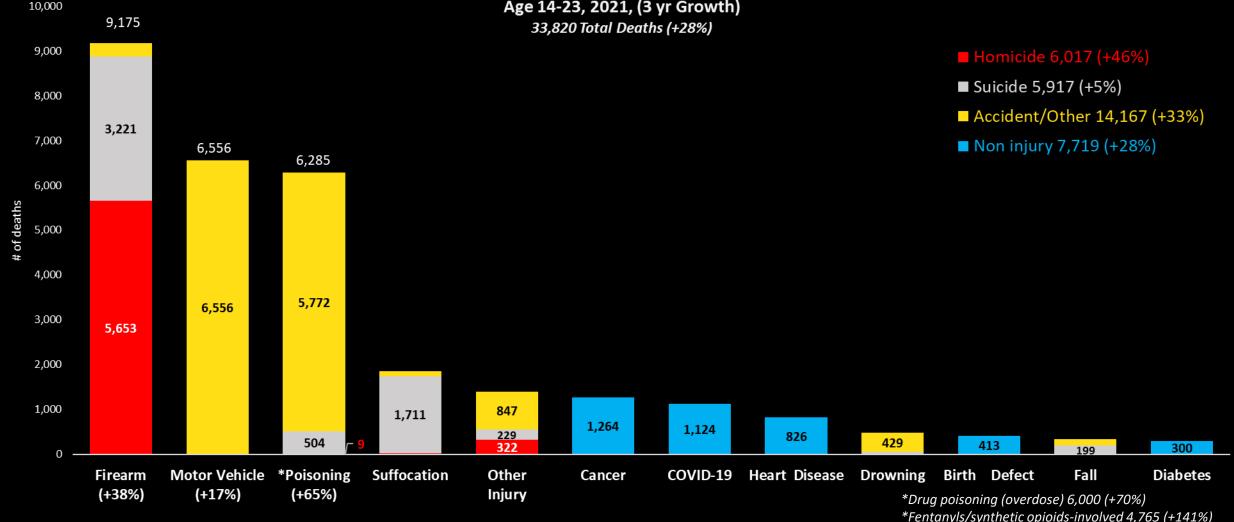


Substance Use: Monitoring the Future National Survey Results on Drug Use, 1975–2021: Volume I, Secondary school students. Ann Arbor: Institute for Social Research, The University of Michigan. Available at <a href="https://monitoringthefuture.org/pubs.html#monographs">https://monitoringthefuture.org/pubs.html#monographs</a>. "Trends in Annual Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined, Any Illicit Drug other than Marijuana." Drug-induced Mortality: 2021 Provisional reported deaths from: Centers for Disease Control and Prevention, National Center for Health Statistics 2018- through last month on CDC WONDER Online Database, released in 2022. Pre 2021 Data from the Multiple Cause of Death Files, 1999-2020. Compiled from data provided by the 57 vital statistics priction by the 57 vital statistics provided by the 57 vital statistics provided by the 57 vital statistics provided in the Vital Statistics provided a latter of the Vital Statistics of the Vital Statistics provided a latter of the Vital Statistics provided and statistics provided and statistics. Multiple Cause of Death Provisional Mortality Statistics 2018- through last month on CDC WONDER Online Database, released in 2022. Pre 2021 Data from the Multiple Cause of Death Files, 1999-2020. Compiled from data provided by the 57 vital statistics prictional provided by the 57 vital statistics prictional provided by the 57 vital statistics provisional reported in Multiple Cause of Death Files, 1999-2020. Compiled from data provided by the 57 vital statistics provisional Annual Prevalence of Use of Various Drugs and Provisional Provisional



#### What is Preventable?

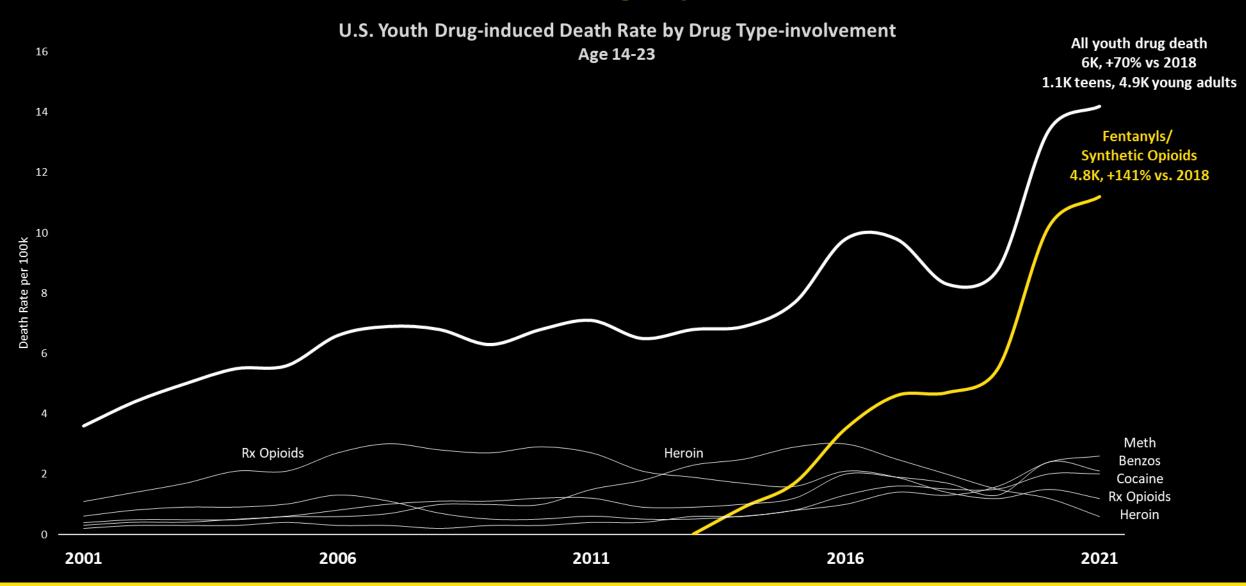
U.S. Youth Leading Mechanism/Cause of Death & Intent Age 14-23, 2021, (3 yr Growth)



Derived from: Centers for Disease Control and Prevention, National Center for Health Statistics. National Wital Statistics. National Wortality & Mortality & Mortality and From the provisional data for years 2021-2022 and final Multiple Cause of Death Files, 1999-2020, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Provisional data for 2021 may change until ~12.2022. Accessed at http://wonder.cdc.gov/mcd-icd10-provisional.html on Oct, 2022. Reported data, not predicted. NCHS has defined selected causes of death groups for analysis of all ages mortality data: "Drug poisoning (overdose)" deaths are identified using underlying cause-of-death codes from the Tenth Revision of ICD (ICD-10]: X40-X44 (unintentional),X85 (homicide), and Y10-Y14 (undetermined). Drug overdose & poisoning deaths involving selected drug categories are identified by specific multiple cause-of-death codes: heroin (T40.1); natural opioid analgesics, including morphine and codeine, and semisynthetic opioids, including drugs such as oxycodone, hydrocodone, hydrocodone, hydrocodone, hydrocodone, hydrocodone, hydromorphone (T40.2); methadone, including drugs such as fentanyl and tramadol (T40.4); cocaine (T40.5); Benzodiazepines (T42.4), and psychostimulants with abuse potential, which includes methamphetamine (T43.6). "Rx Opioids" uses T40.2+T40.3, "Fentanyl/Synthetic opioid-involvement" uses T40.4, "Fentanyl-only" uses (Any T40.4) minus (Any T40.4 + any involvement of T40.1 and/or T40.2 + T40.3, and/or T40.5.and/or T42.4 and/or T43.6). Multiple drugs may be involved in one drug death, Death rates are per 100K population.



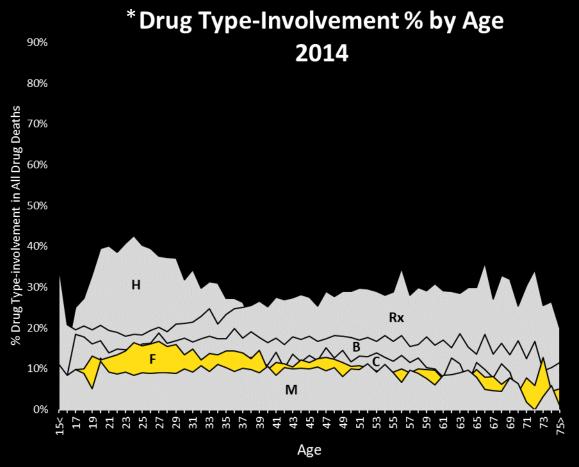
# **An Evolving Epidemic**

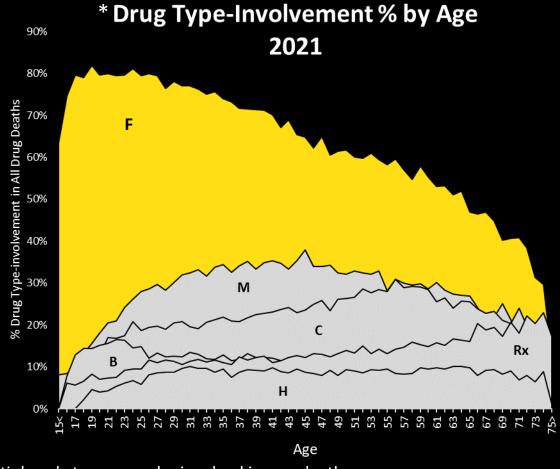


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# Fentanyls Growth, Multi-substance, Youth Impact





\*Will sum to greater than 100% because multiple substances can be involved in one death

H = Heroin (T40.1)

Rx = Prescription Opioids (T40.2)

F = Fentanyls/Synthetic Opioids (T40.4)

C = Cocaine (T40.5)

B = Benzos (T42.4)

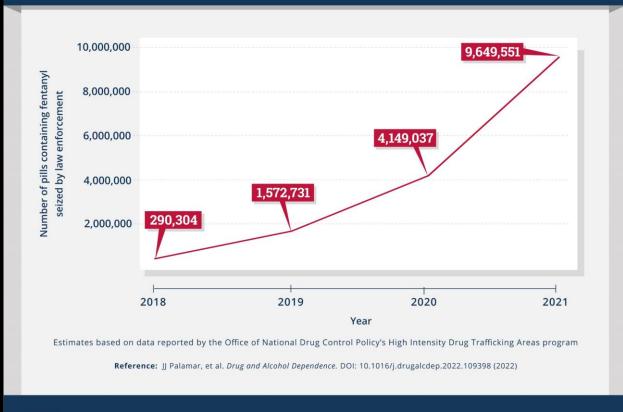
M = Methamphetamine (T43.6)

Derived from: Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Provisional Mortality & Mortality 1999-2020 on CDC WONDER Online Database. Data are from the provisional data for years 2021-2022 and final Multiple Cause of Death Files, 1999-2020, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Provisional data for 2021 may change until "12.2022. Accessed at http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html on Oct, 2022. Reported data, not predicted. NCHS has defined selected causes of death gase-independent codes from the Tenth Revision of ICD (ICD—10): X40—X44 (unintentional),X85 (homicide), and Y10—Y14 (undetermined). Drug overdose & poisonning of earth eried for eight data in an expected data of earth eried for eight data in a control of earth eried for eight data in a control of earth eried for eight data for years 2021-2022 and final Multiple Cause of Death Files, 1999-2020, as compiled from data provided by the 57 vital statistics Vital Statistics Vital Files, 1999-2020 on CDC WONDER Online provided by the 57 vital statistics United Statistics Vital Files, 1999-2020 on CDC WONDER Online provided by the 57 vital statistics Jurisdictions through the Vital Statistics Cooperative Program. Provisional data for years 2021-2022 and final for vital Statistics Vital Files, 1999-2020 on CDC WONDER Online from the End Statistics Vital Statistics Vital Files, 1999-2020 on CDC Wonder.cdc.gov/mcd-icd10-provisional Intelligence Cause of Death Files, 1999-2020 on CDC Wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mcd-icd10-provisional.html & http://wonder.cdc.gov/mc



### "Dramatic Increase" in Counterfeit Pills





National Institute on Drug Abuse

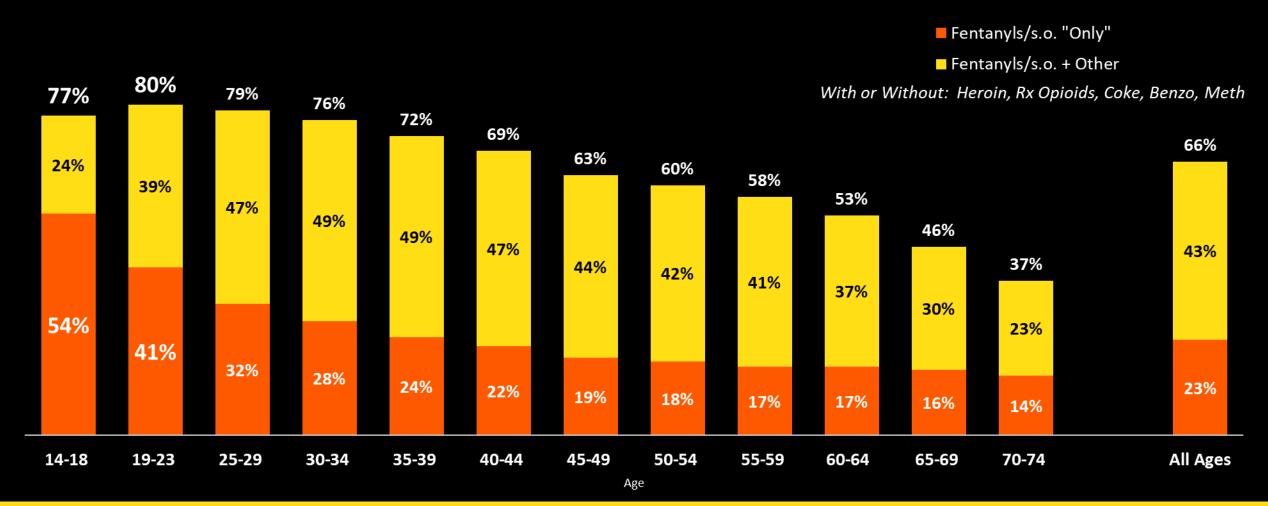
nida.nih.gov

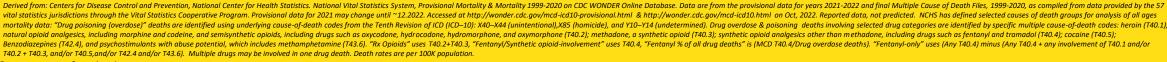
- "Growing, dangerous trend, particularly for people new to drug use"
- 50-fold increase in seized IMF pills from Q1 2018 to Q4 2021
- Proportion of pills to seizures more than doubled.
- DEA studies show 40% of pills contain a potentially lethal dose
- Various reports that there are 0-2% real Rx pills seized over last 2 years



## Youth Deaths Involve Fentanyls More

U.S. Fentanyls/Synthetic Opioids-involvement Share of Drug-Induced Deaths
By Age, MCD grouping, 2021

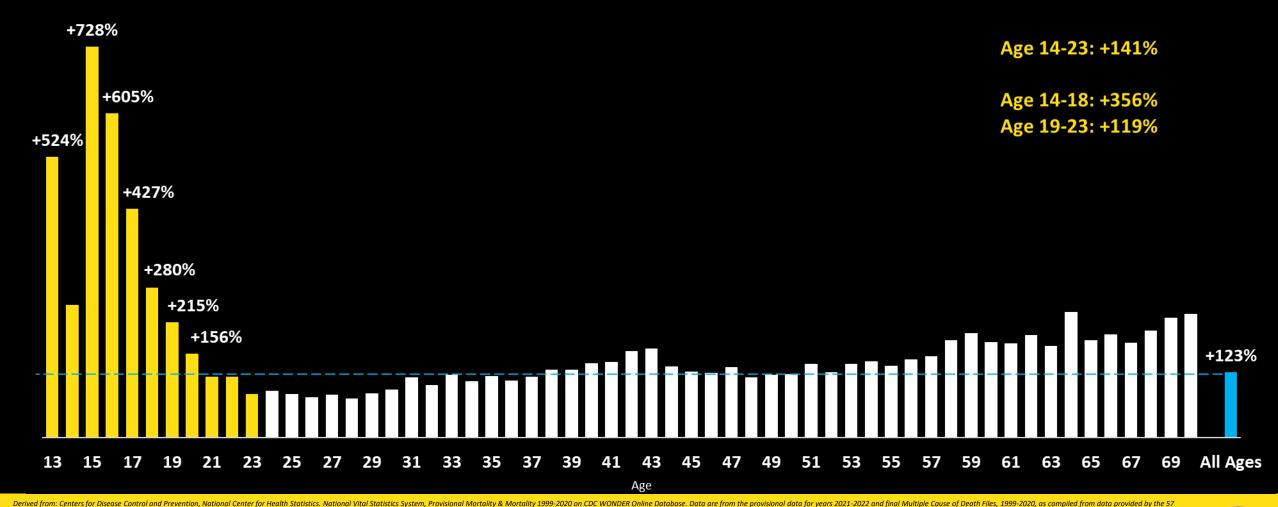


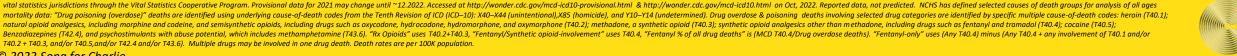




## **Youth Deaths Growing Faster**

U.S. Fentanyls/Synthetic Opioid-involved Death Rate Growth By Age, 2021 vs 2018







### All Ages Drug-induced Deaths – Exponential Growth

