## NTHELTH <br> SCIENCES

College of Population Health

## Background

Poisoning, including drug overdose, is now the $3^{\text {rd }}$ leading cause of death in children from 1 to 19 years of age in the U.S. after firearm injury and motor vehicle crashes.
Toxic exposure to young children can be fatal, particularly when the substance is fentanyl.
Researchers must characterize the risk factors that contribute to fentanyl exposure in young children to plan and implement prevention.

## Objectives

Our study aims to improve knowledge of fentanyl exposure in young children and characterize the factors contributing to these exposures.

## Method

This is a descriptive observational study of al fentanyl exposure cases under 6 years old reported to the National Poison Data System (NPDS) from 2012 to 2021.

## Conclusion

Since 2019, fentanyl exposure among children under 6 years old has significantly increased.
The public health system needs to take steps to prevent fentanyl exposure, especially among younger children

Prevention by caregivers is critical. Education by healthcare providers should help prevent fentanyl exposure in young children.

Characteristics of Fentanyl Exposure among U.S. Children under 6 Years Old Reported to Poison Centers 2012-2021

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## Results

Illicit and Prescribed ${ }^{*}$ Fentanyl Exposure Cases
in the U.S. Chldren under 6 years old, Reported to Poison Centers 2012 - 2021


Fentanyl Exposure Rate in the U.S. Children under 6 Years Old


FentanyI Exposure Rate in the U.S. Children under 6 Years OII State per 1,000,000 Population, Reported to Poison Centers 2012-2021


Fentanyl Exposure Rate in the U.S. Children under 6 Years Old


Summary of Data
Characteristic (905 cases) n (\%)

| Sex | Male | $423(46.8 \%)$ |
| ---: | ---: | ---: |
|  | Female | $471(52.0 \%)$ |
|  | Unknown | $11(1.2 \%)$ |

Age, Year

Medical Outcome vs Illicit / Prescribed

| Major effect <br> or <br> Death | Illicit | Prescribed | p Value |
| :---: | :---: | :---: | :---: |
| Yes $(\mathbf{n})$ | 88 | 126 |  |
| No $(\mathbf{n})$ | 56 | 167 | $\mathrm{p}<0.01$ |

