

Trends in Pediatric Injury Related Deaths



HARVARD
MEDICAL SCHOOL



Middlesex



**Boston
Children's
Hospital**

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Acknowledgments

Rep. Kelly Moller, Chair of the House Public Safety Finance and Policy Committee

Rep. Dave Pinto, Chair of Children and Families Finance and Policy Committee

Background

- Rebekah Mannix
 - Pediatric emergency medicine physician at Boston Children's Hospital
 - Injury researcher at Harvard Medical School
- Cordelia Mannix
 - High school student on research "elective"

Disclosures and Conflicts of Interest

Rebekah Mannix's work is funded in part by

- US Department of Defense
- National Institutes of Health
- National Football League Charitable Foundation
- Abbott Laboratories
- Boston Children's Hospital

None are relevant to the current presentation

Today's testimony

Brief overview of
epidemiologic
trends in pediatric
injury related deaths

Brief comparison to
other trends in
pediatric deaths

Data sources



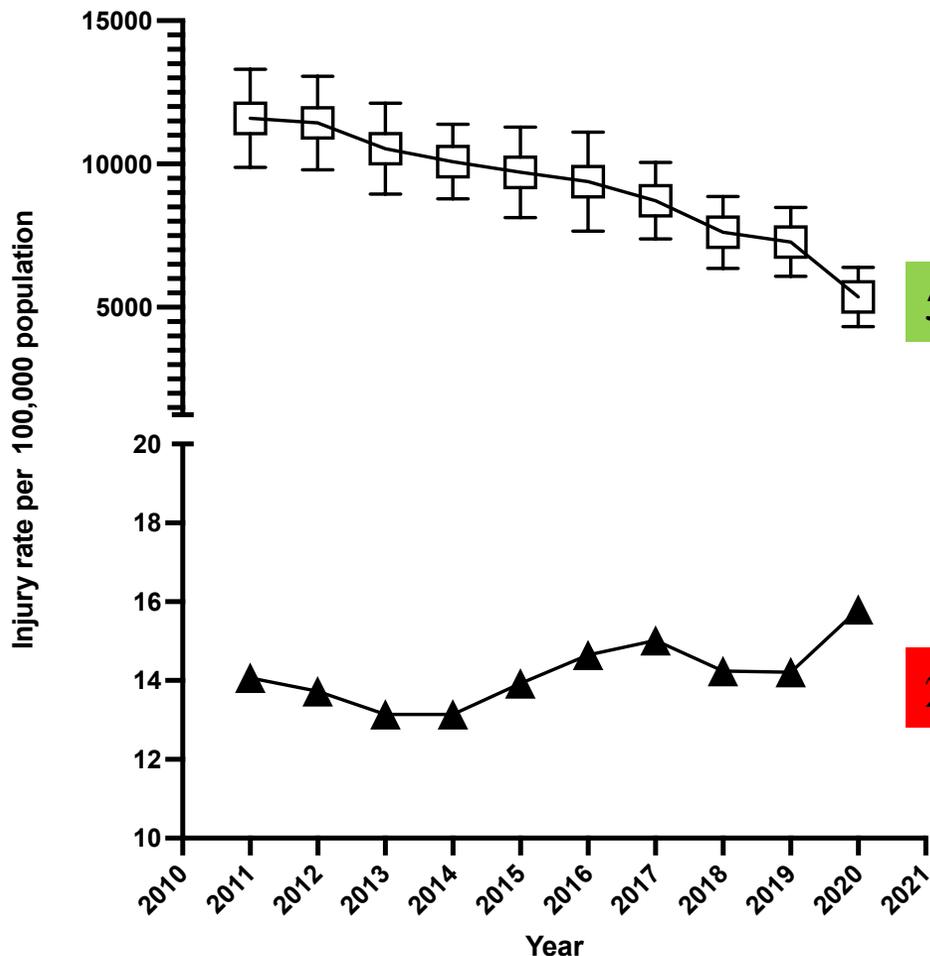
WISQARS™ — Web-based Injury Statistics Query and Reporting System

Access the **newest provisional natality data** through



Create **customizable data tables** that fit your needs.

Trends in fatal and nonfatal pediatric injuries



54% DECREASE in nonfatal injuries

23% INCREASE in fatal injuries

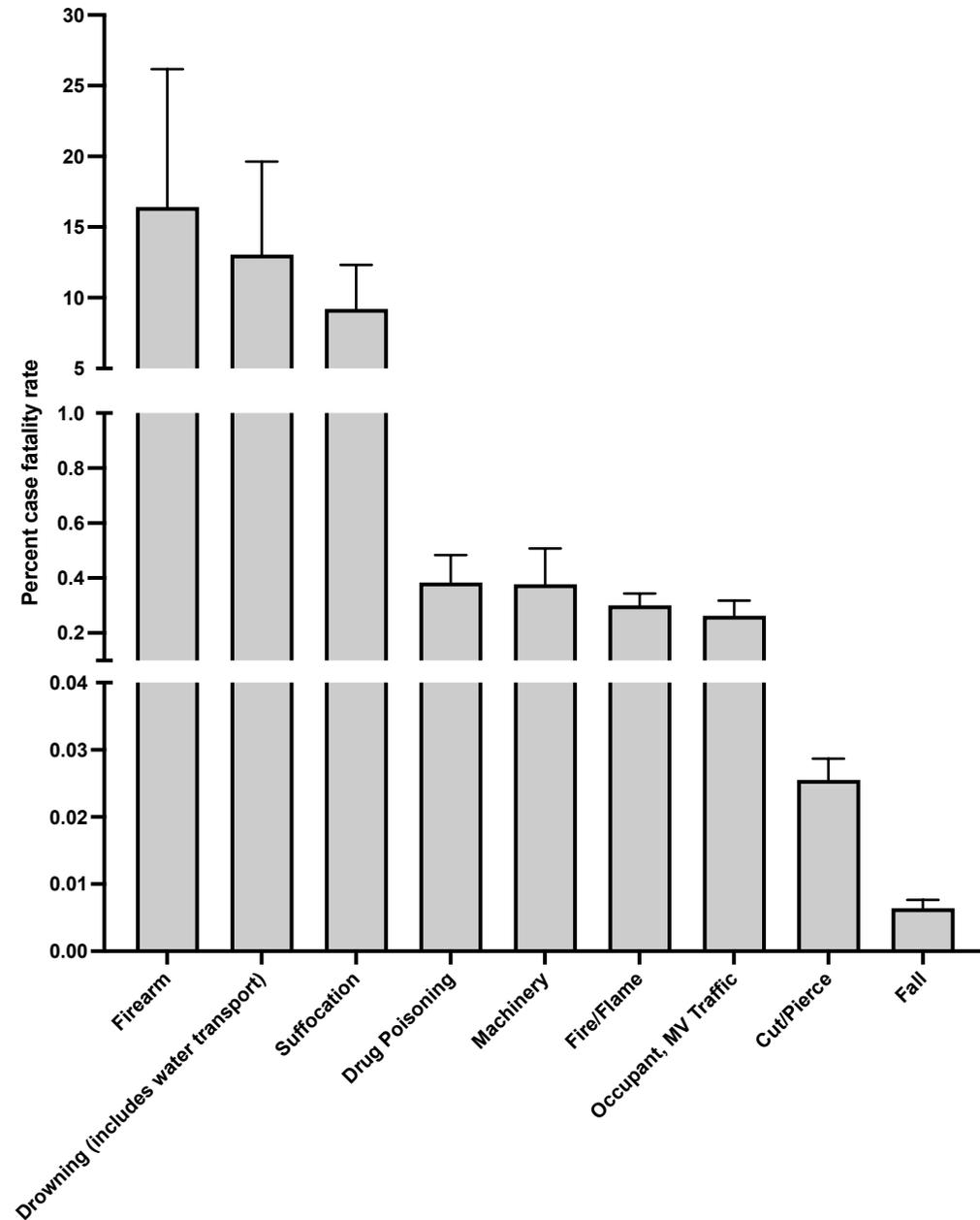
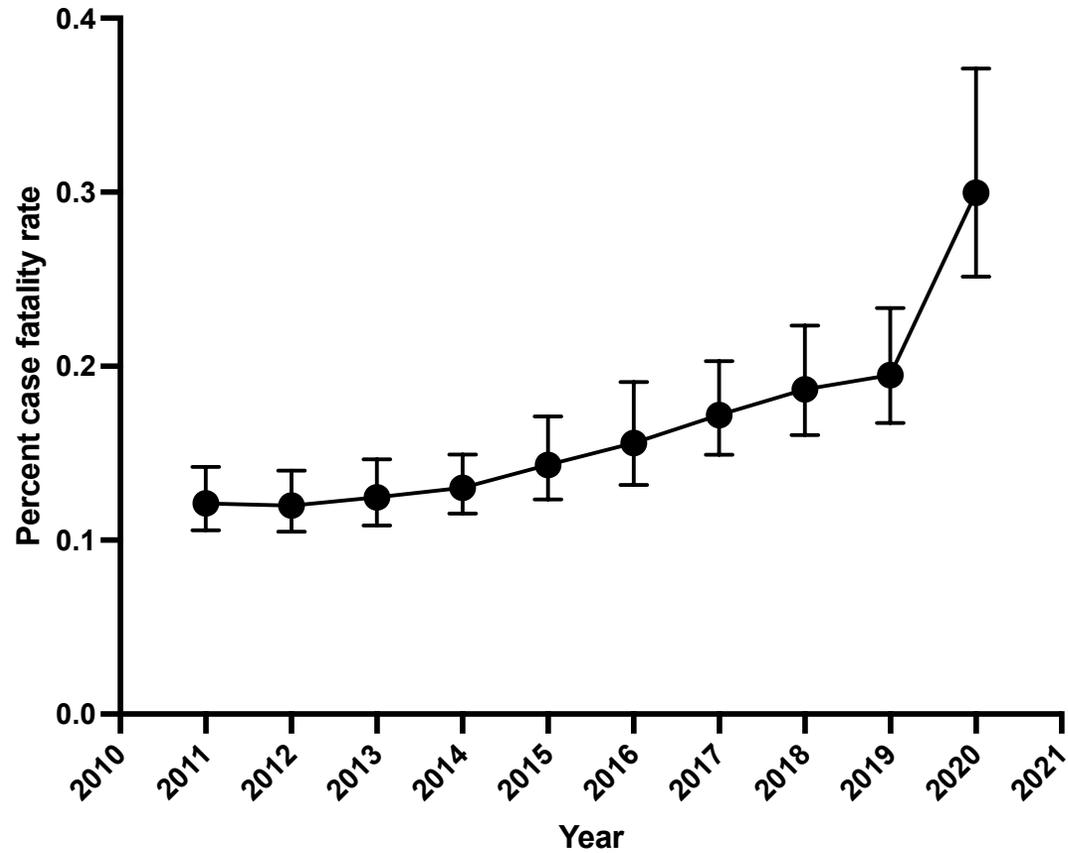
Firearm fatalities increased by 87.1%
Drug poisoning fatalities increased by 133.3%



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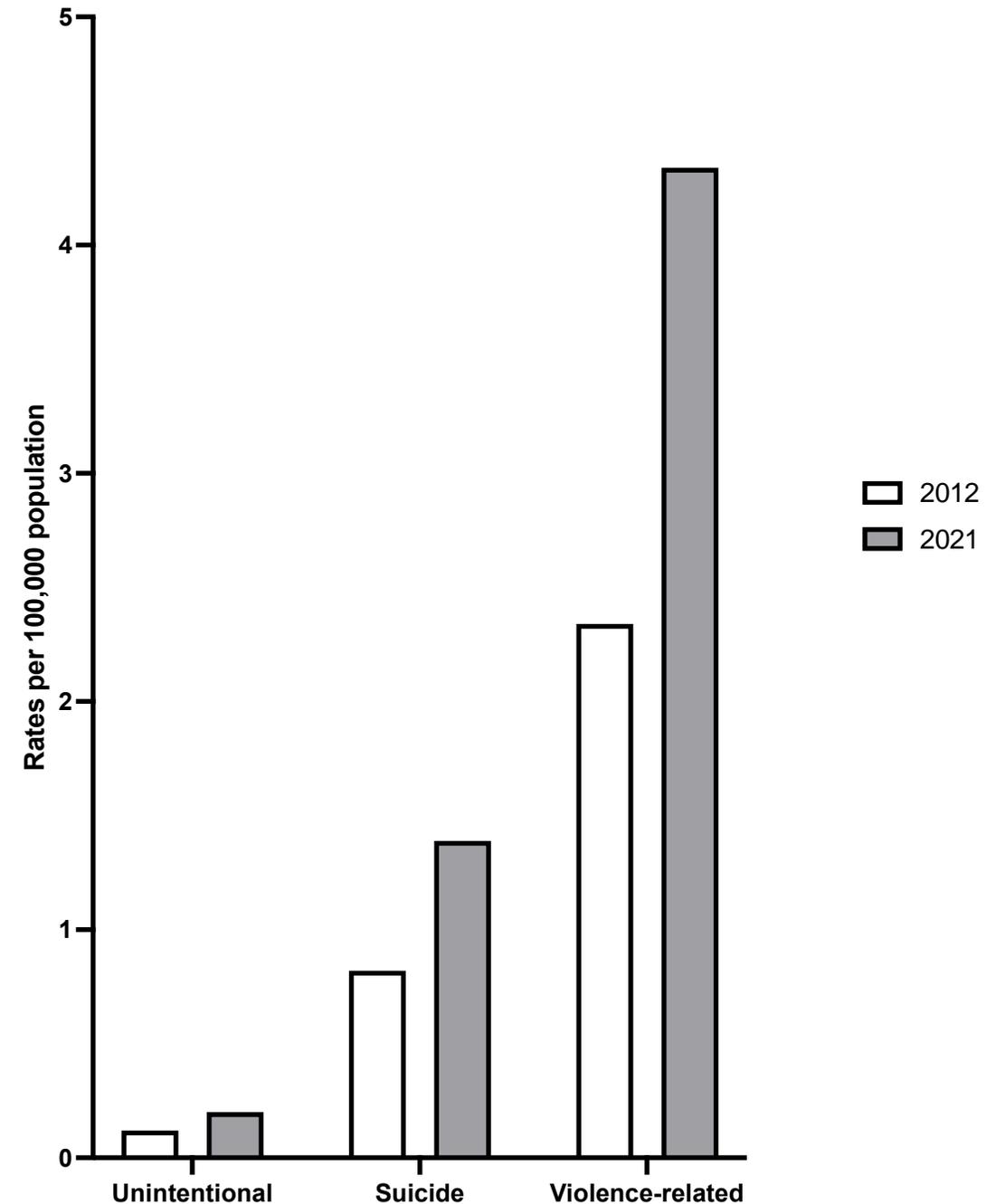
Mannix C, Neuman M, Mannix R. Trends in Pediatric Nonfatal and Fatal Injuries. Pediatrics. 2023 Nov 1;152(5):e2023063411. doi: 10.1542/peds.2023-063411. PMID: 37795551.

Case fatality rate trends

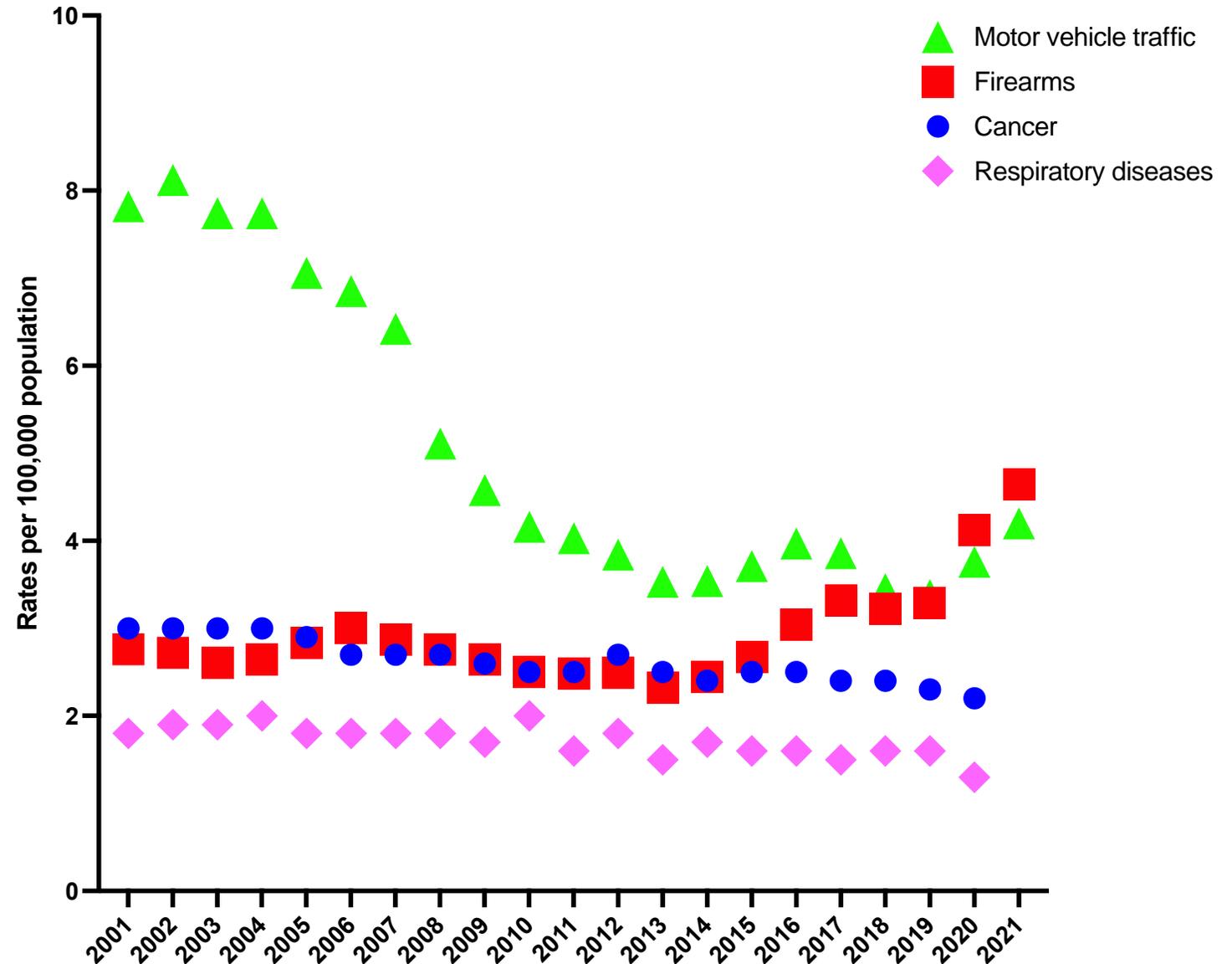


Change in firearm fatalities in children and adolescents by intent 2012-2021

83% INCREASE in unintentional deaths
70% INCREASE in suicide deaths
85% INCREASE in violence-related deaths



Change in fatalities in children and adolescents by cause 2001-2021



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Summary

- Case fatality rates from pediatric firearm injuries are high
- In contrast to most other trends in pediatric fatalities, pediatric firearm fatalities have increased dramatically in the last 1-2 decades