

2025

Arkansas Children's Annual Trauma Report

Presented by

Hannah Branton, BS, CPST
Outreach Specialist
Trauma Department



HOSPITALS • RESEARCH • FOUNDATION

Objectives

By the end of this presentation, participants will be able to:

Objective 1: Describe the structure and function of the Arkansas trauma system, including the role of Level I Pediatric Trauma Centers in providing comprehensive care across the continuum.

Objective 2: Summarize key trends and epidemiologic patterns identified in the 2025 ACH pediatric trauma population, including leading mechanisms of injury, mortality patterns, and high-risk age groups.

Objective 3: Recognize areas of need in the field of injury prevention for the pediatric population in Arkansas.

Agenda

- Trauma Systems
- Arkansas Children's Hospital Trauma Program
- Our 2025 Trauma Data (Injury and Mortality)
- Notable Data
- Injury Prevention Programs

Liam's Story

Injuries:

- Rib fractures
- Thoracic fractures
- Collapsed lungs
- Lung contusions and lacerations
- Air leaking into his chest cavity
- Tracheal laceration
- Large clot in carotid artery



Procedures:

- Bilateral chest tube placement
- Microlaryngoscopy
- Bronchoscopy
- Esophagogastroduodenoscopy
- Thoracotomy

Liam's Story

“We definitely require seatbelts in the side-by-side now.” - John (dad)

“The key is something we thought was not a big deal was a big deal. We are so lucky to have this hospital” - Leslie (mom)

“I would 100% say buckle up” - Liam

“I could have let that moment define me, but you have to get up and try to move on.” - Liam

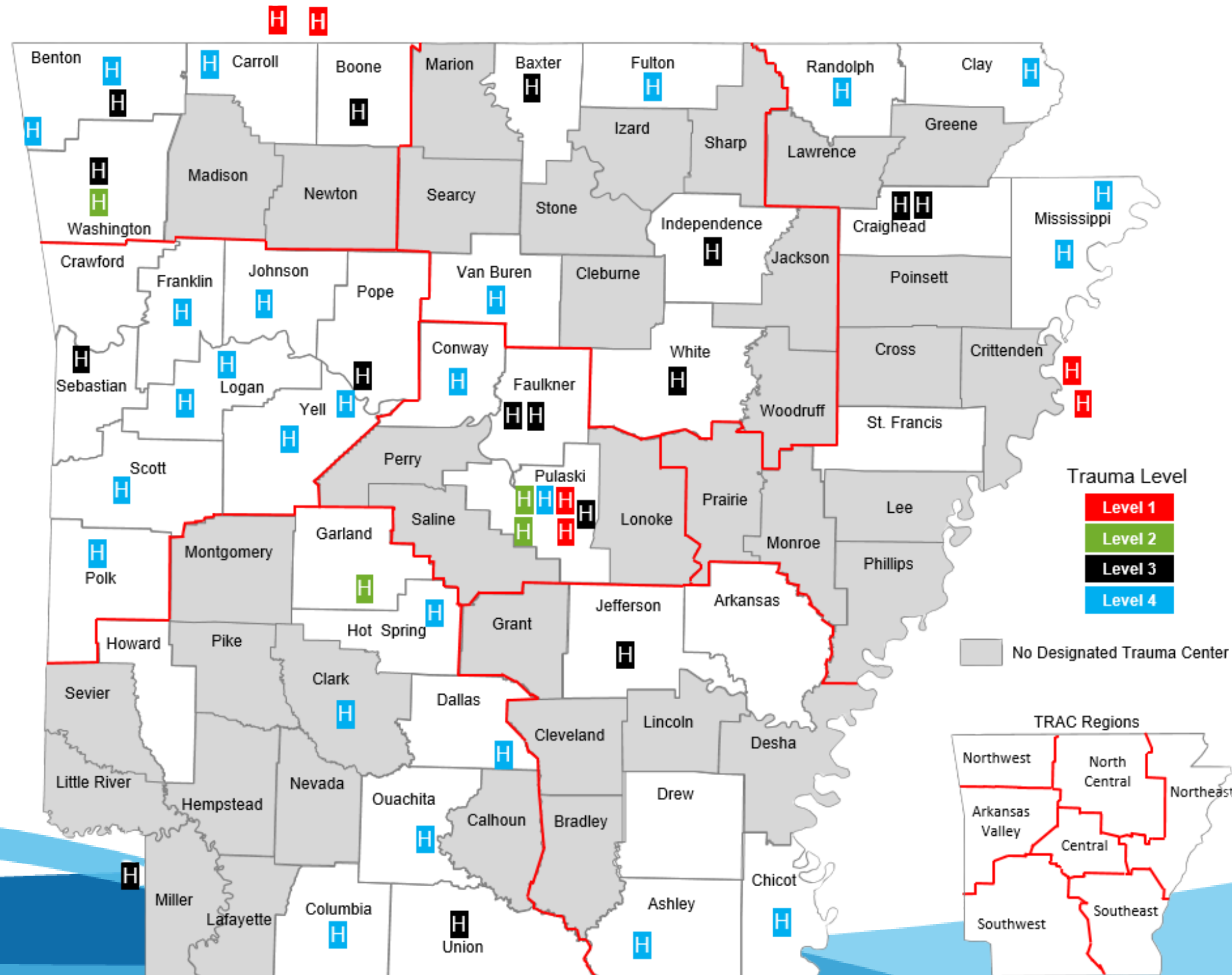


Arkansas Trauma Systems

- Trauma Communications
 - 911 Call
 - AR Trauma Communications Center
 - Appropriate Trauma Hospital

Arkansas Trauma System

Arkansas Designated Trauma Centers



About the ACH Trauma Program

- Average of 1600 trauma patients per year
- Over 98% discharged home
- Real-time process improvement
- Best practice training
- Injury prevention
- Research

Meet Our Team

Trauma Surgeons

Dr. Deidre Wyrick, MD, FACS
Trauma Medical Director

Dr. R. Todd Maxson, MD, FACS
Associate Trauma Medical Director

Dr. Melvin Sidney Dassinger, MD,
FACS, FAAP

Dr. Jeffery Burford, MD, FACS

Dr. Michaela (Mikki) Kollisch, MD,
FACS

Dr. Robert Vandewalle, MD

Dr. Lindsey Wolf, MD, MPH, FACS,
FAAP

Trauma APRNs

Shelby (Jordyn) Earnest-Hastings,
APRN, MNSc, CPNP-AC

Brianna Gammon,
APRN, MNSc, CPNP-AC

Mallory Onarecker,
APRN, MNSc, CPNP-AC

Jennifer York,
APRN, MNSc, CPNP-AC

Trauma Program Office Staff

Shonda Grappe, MSN, RN, CCRN
Trauma Program Manager

Kelli Coatney, MSN, RN, CPN, CAISS
Trauma Nurse Coordinator

Sara Silverman, BSN, RN, CPEN, CAISS
Trauma Nurse Coordinator

Lesa Slaughter, MSN, RN, CPEN, TCRN
Trauma PI Nurse Coordinator

Cynthia McHargue, BSHA, CPC
Trauma Registrar

Katerra Westfall, CPC
Trauma Registrar

Jaime Summers, BA
Trauma Registrar

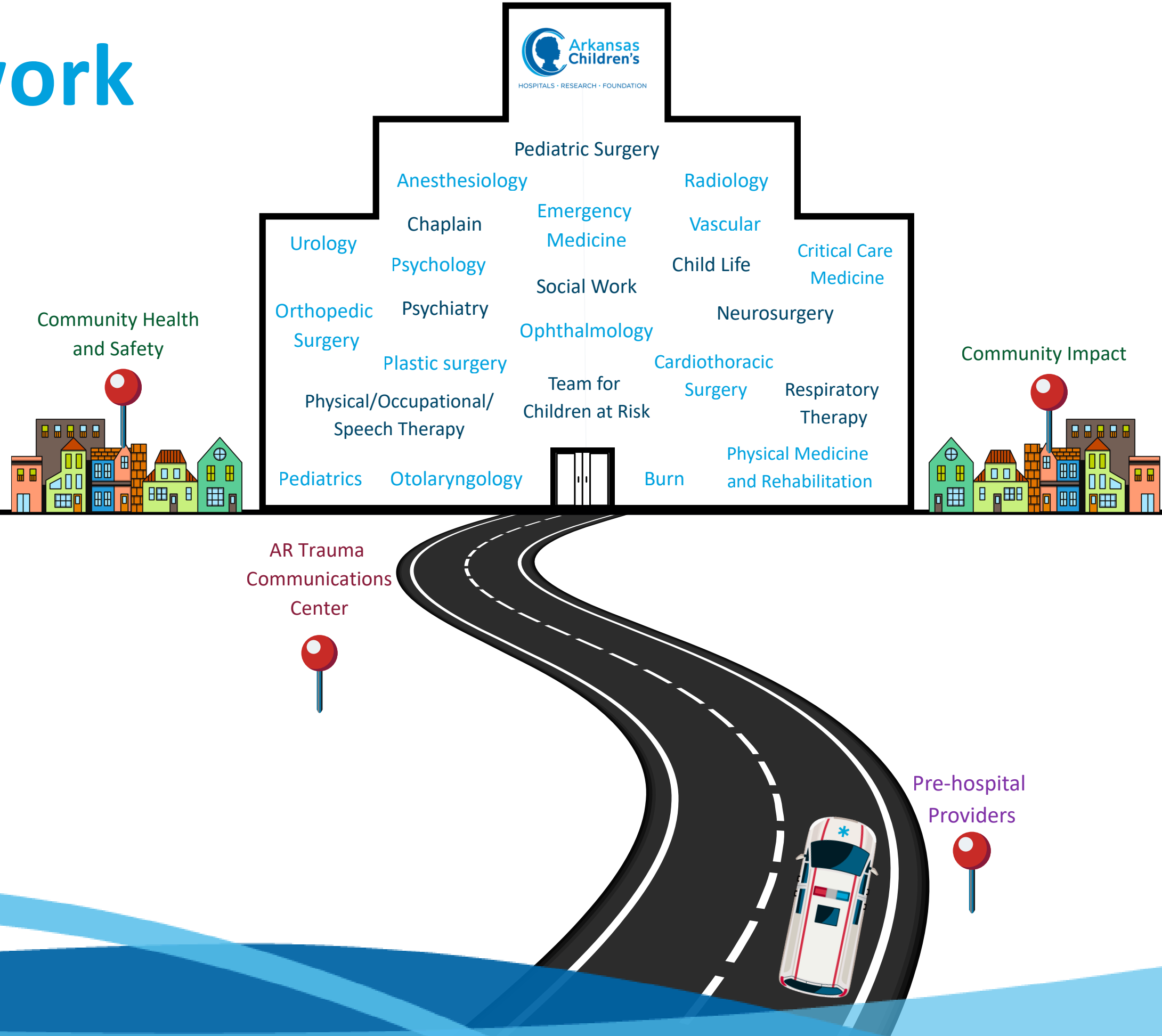
Hannah Branton, BS, CHES, CPST
Outreach Specialist

Allison Jones,
Administrative Assistant

Caitlin Smith
Health Promotion Intern
Spring, 2025

Carli Craymer
Health Promotion Intern
Fall, 2025

Teamwork



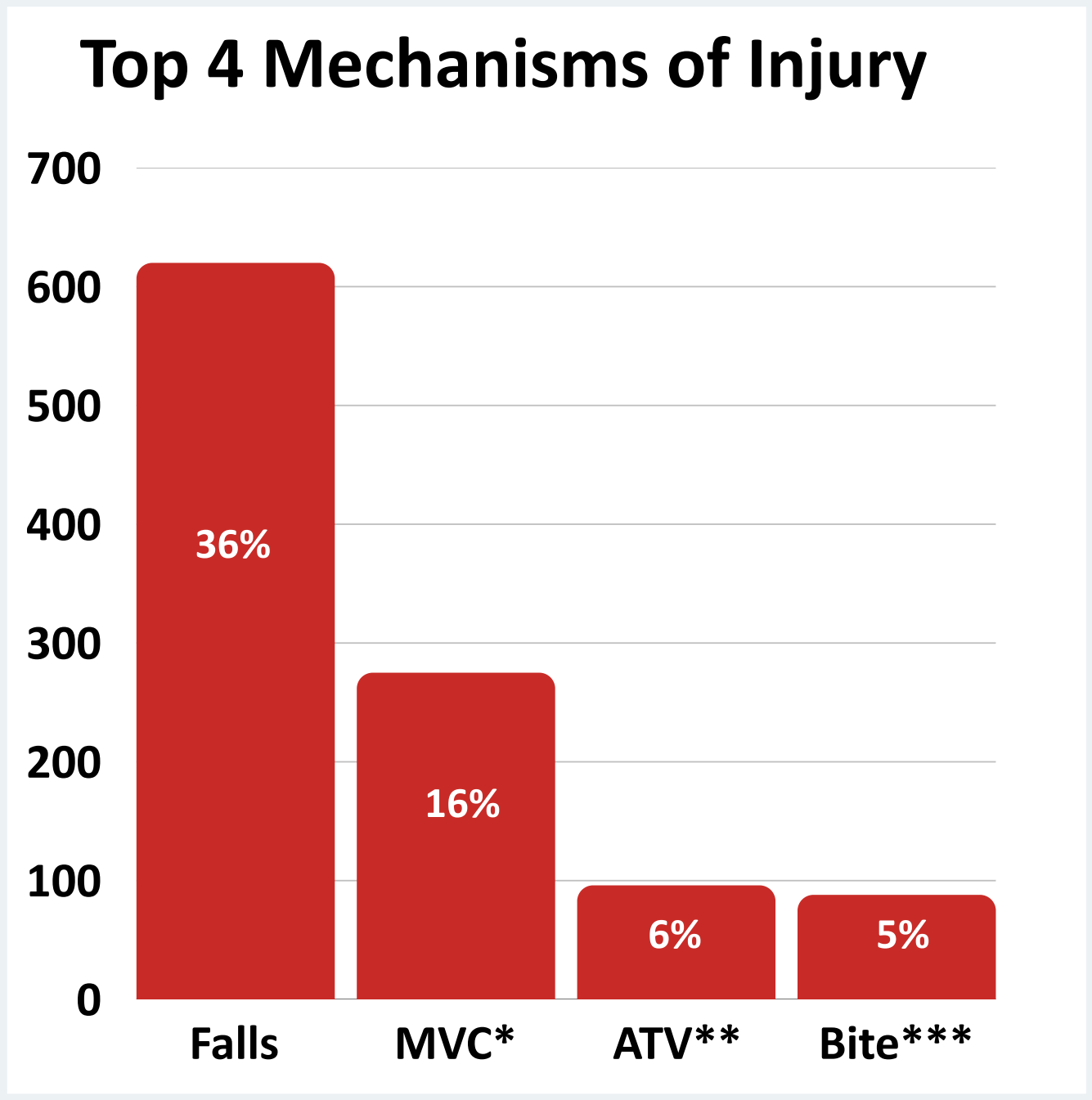
Disclaimer

It is important to note that the data presented in this report reflects the Arkansas Children's Hospital trauma patient population, specifically. This data does not reflect all injuries to pediatric patients in the state of Arkansas nor does it represent all injured patients treated at Arkansas Children's Hospital. This data represents the patients who presented to our hospital and met specific inclusion criteria for our trauma registry.

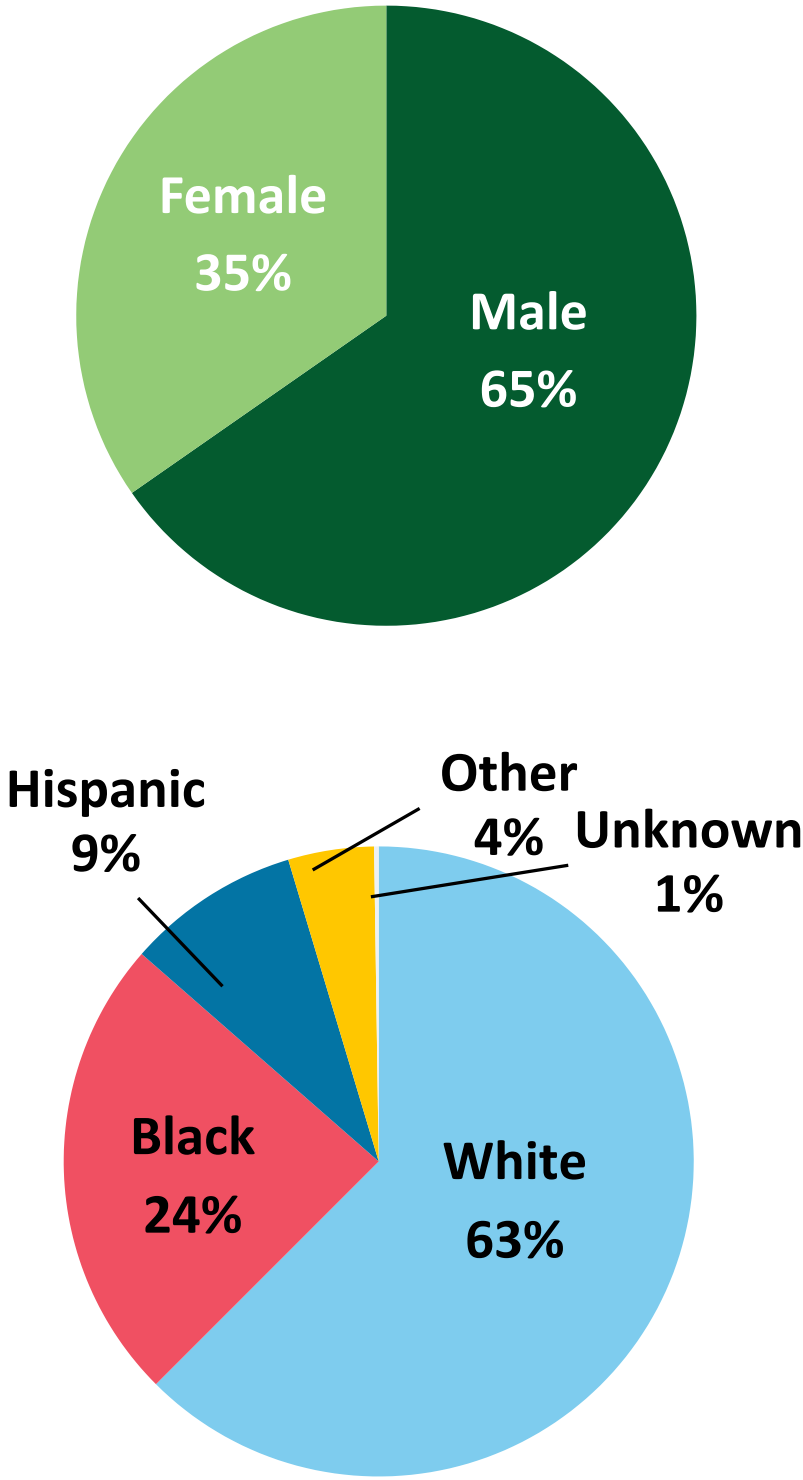
Word Cloud



2025 Trauma Data

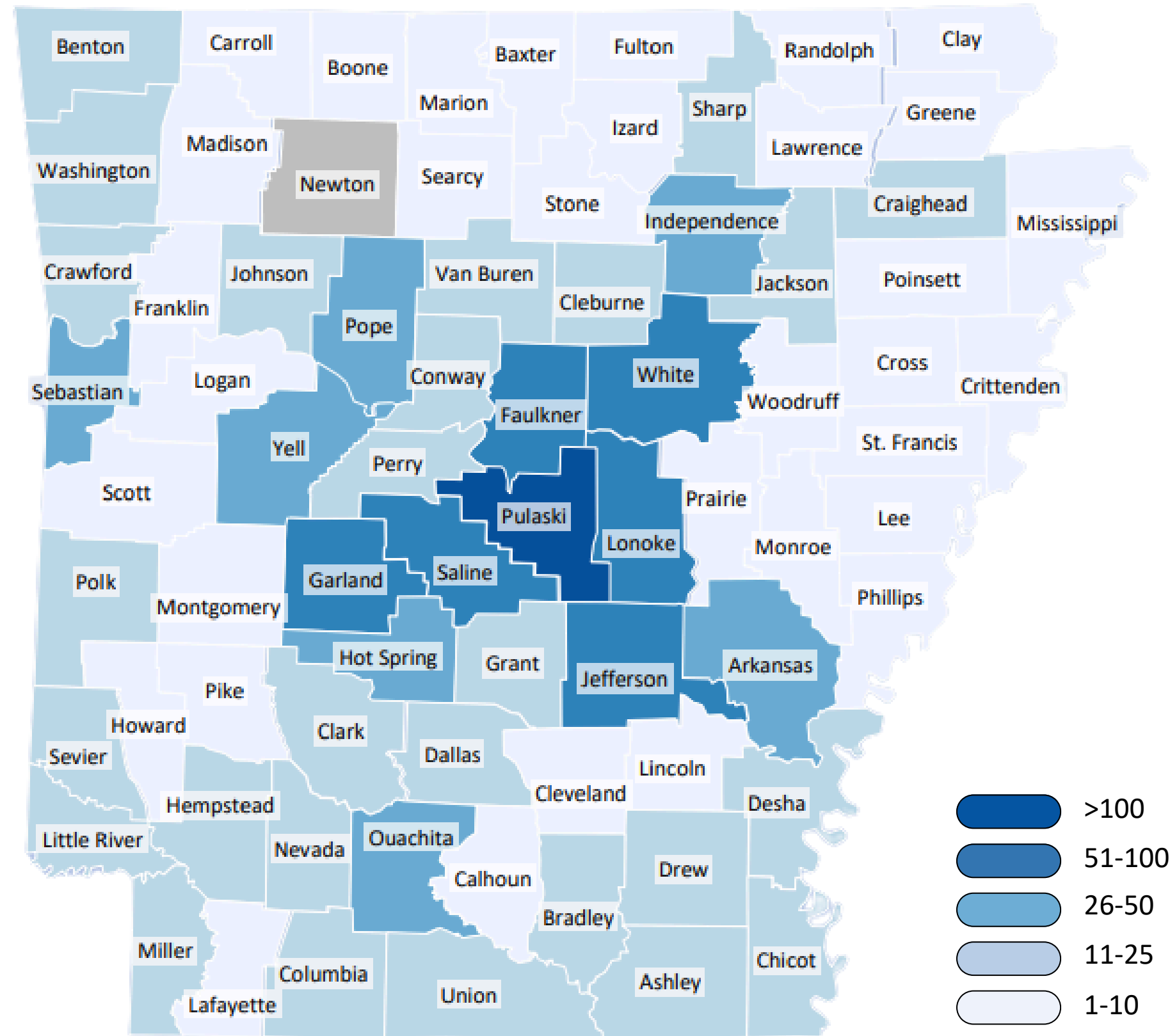


*Motor Vehicle Collision
**All-Terrain Vehicle
***Includes human, animal, and reptile bite



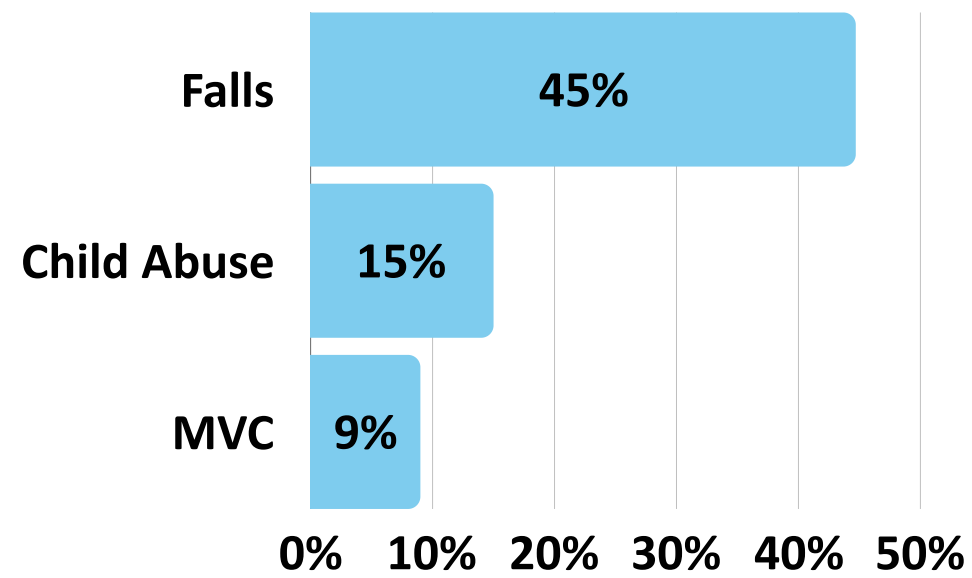
Counties Served

**We also served 42
out of state
counties!**

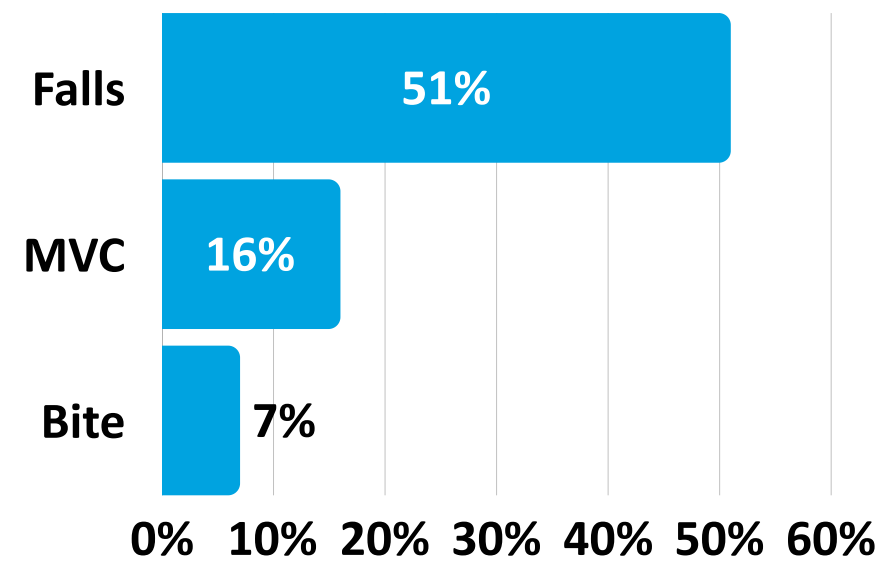


2025 Data by Age

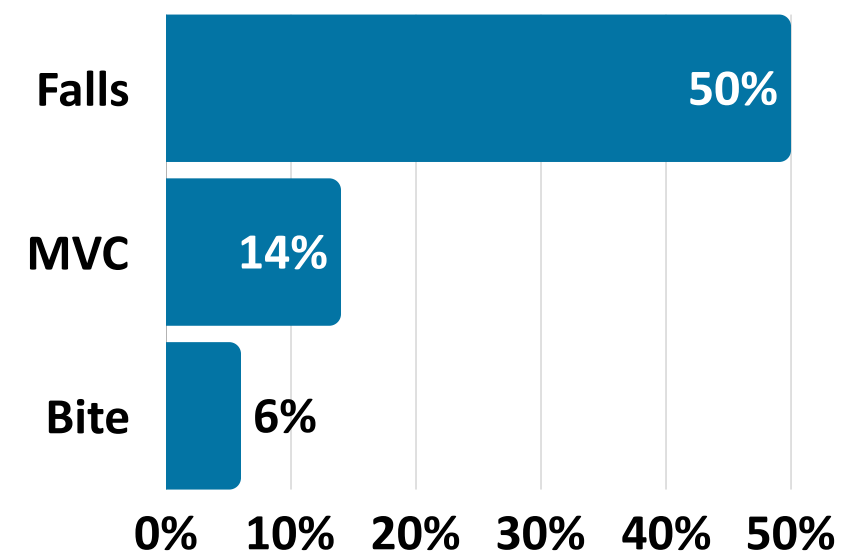
0-3y



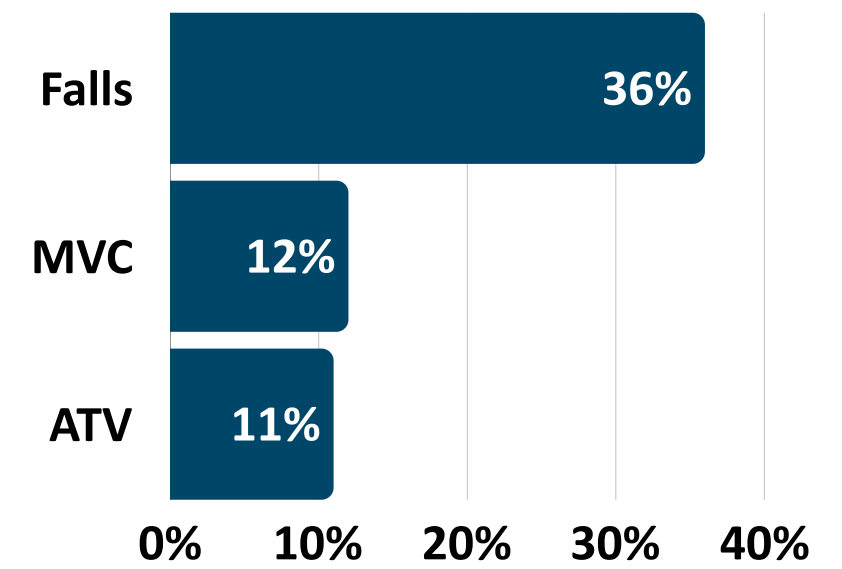
4-6y



7-9y

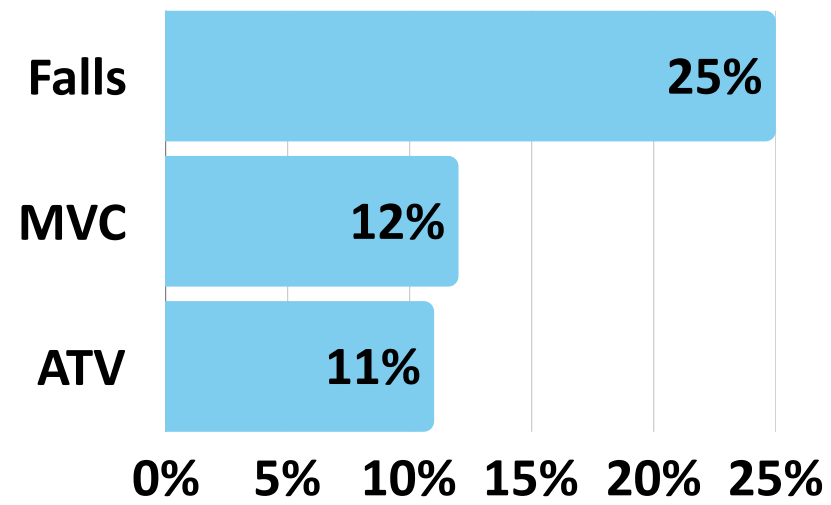


10-12y

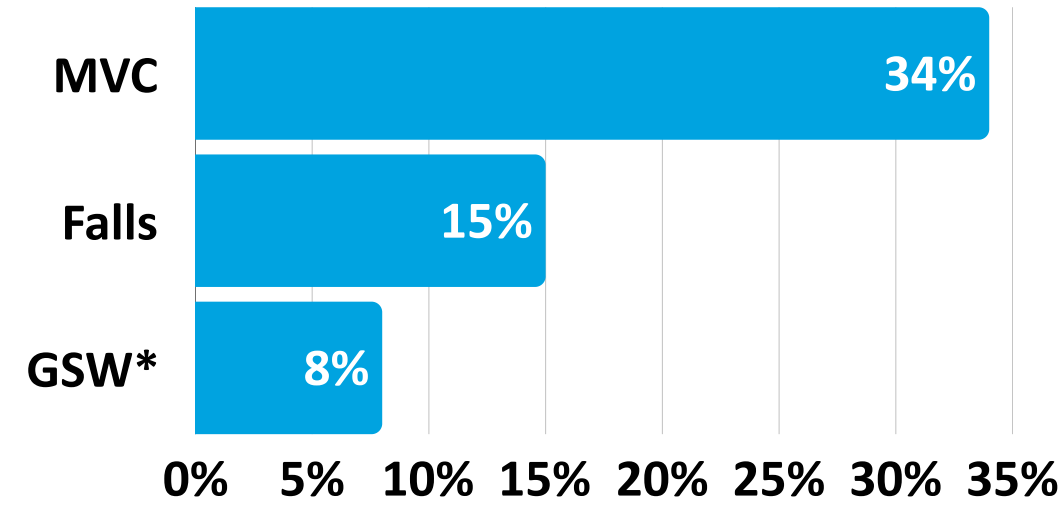


2025 Data by Age

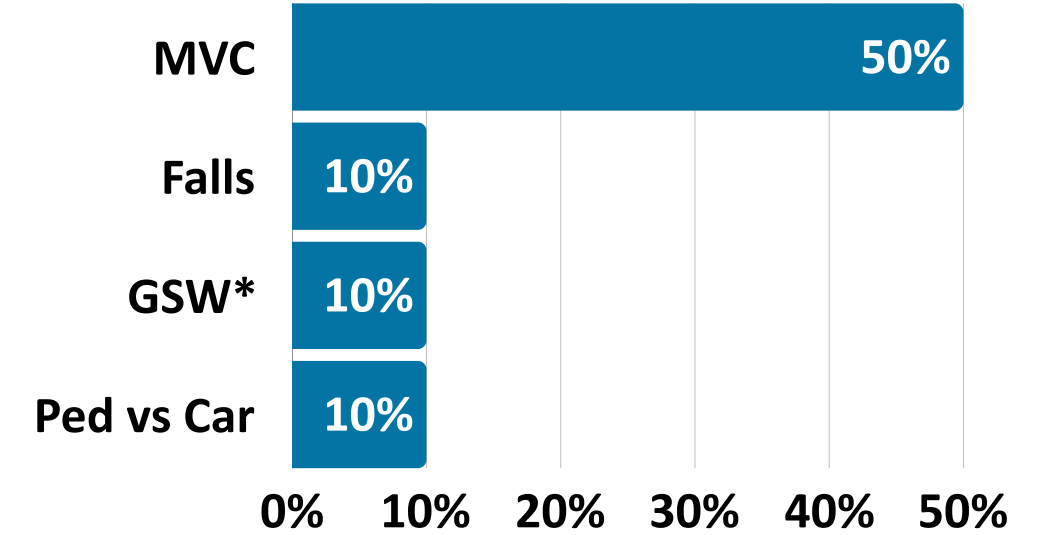
13-15y



16-18y

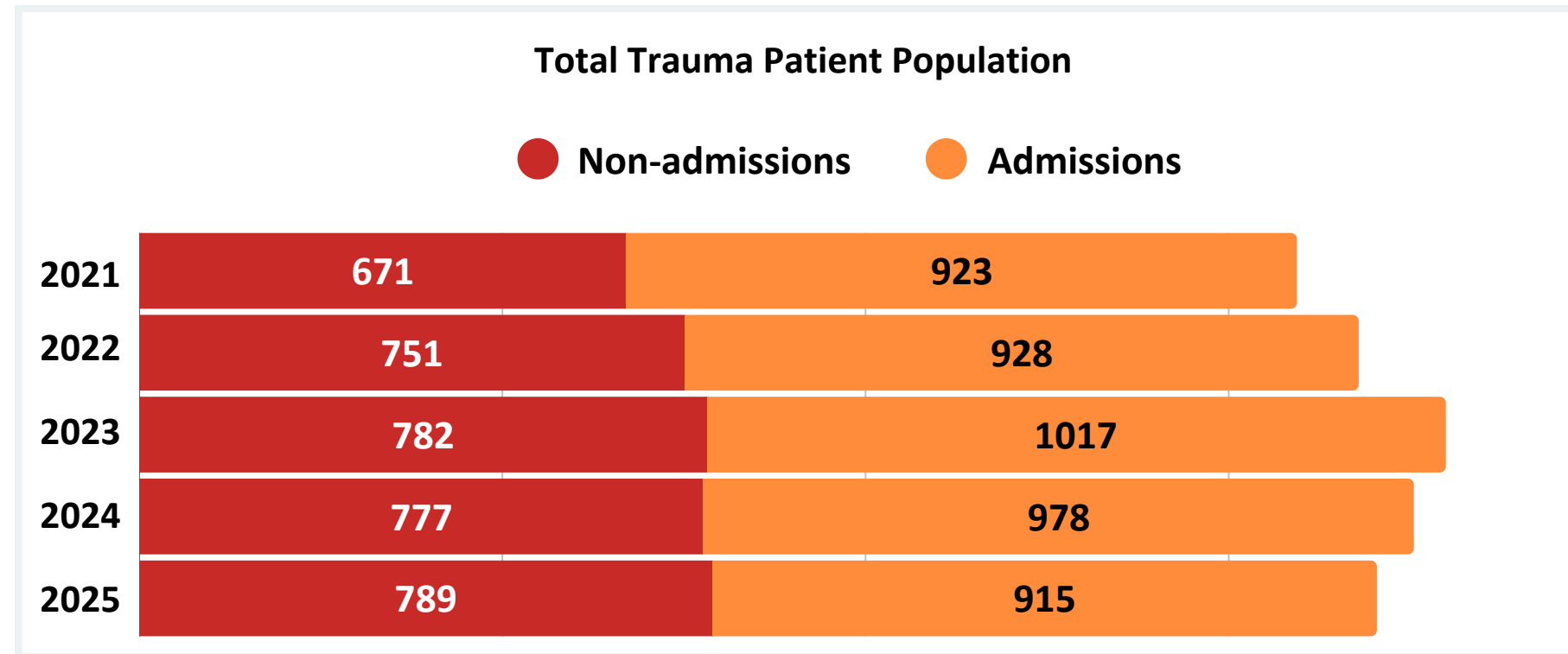
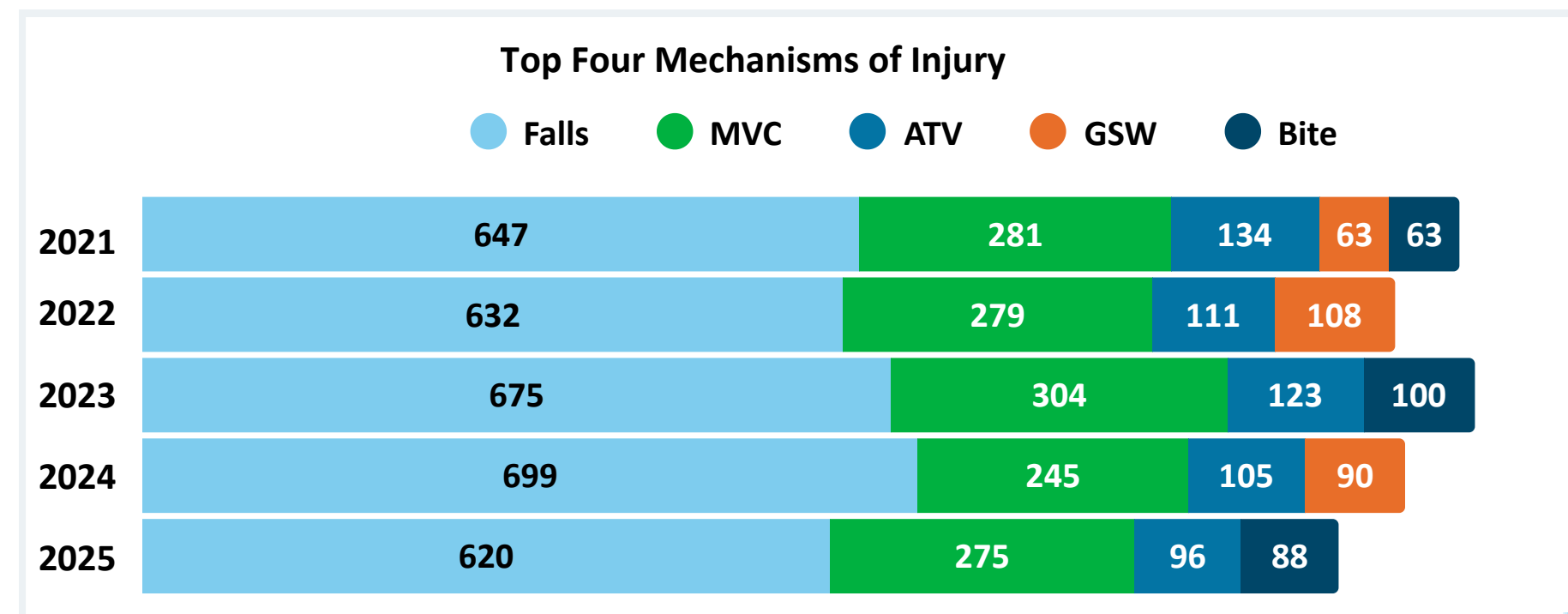


19-21y



*Gun Shot Wounds

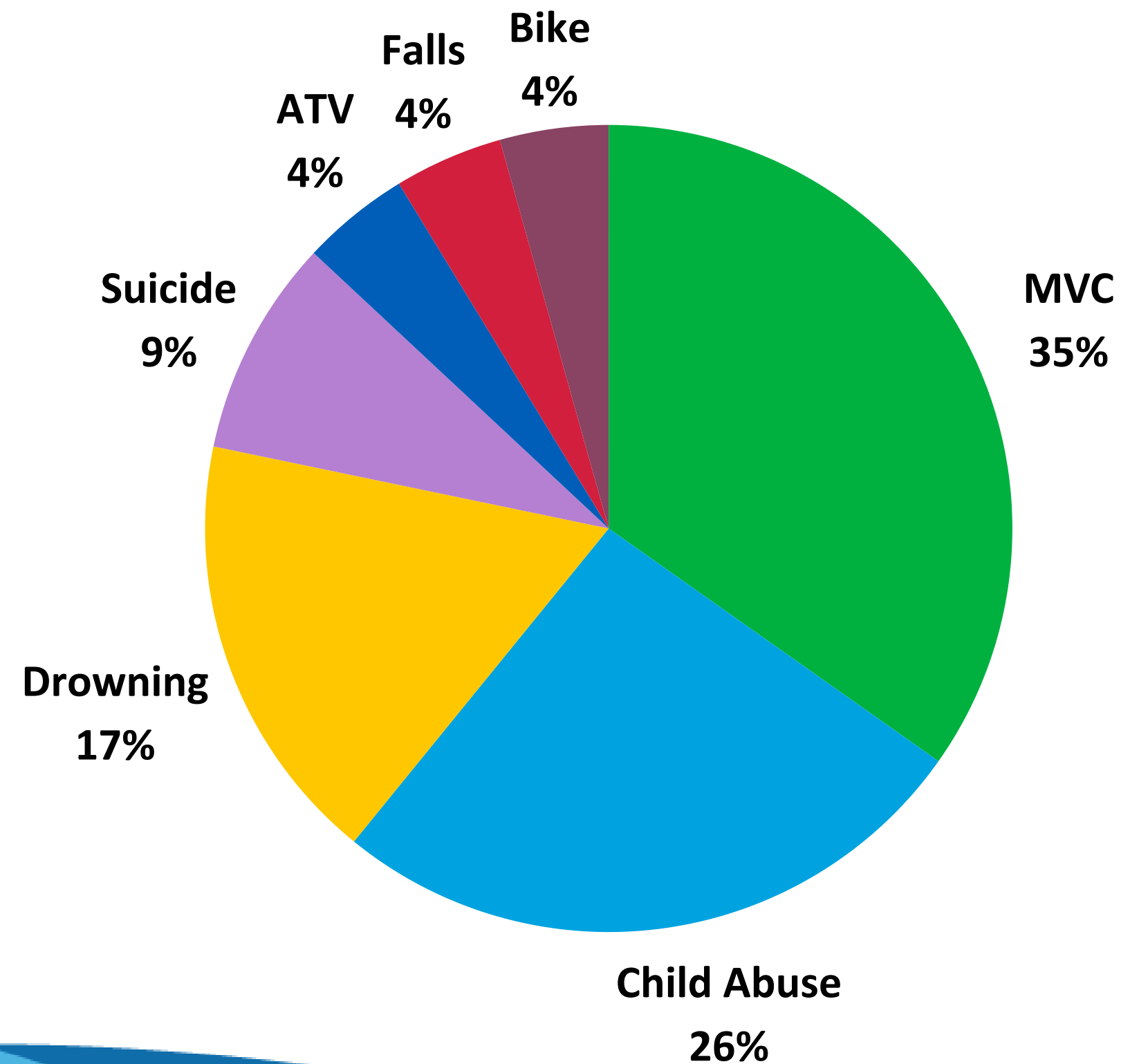
Five-Year Trends



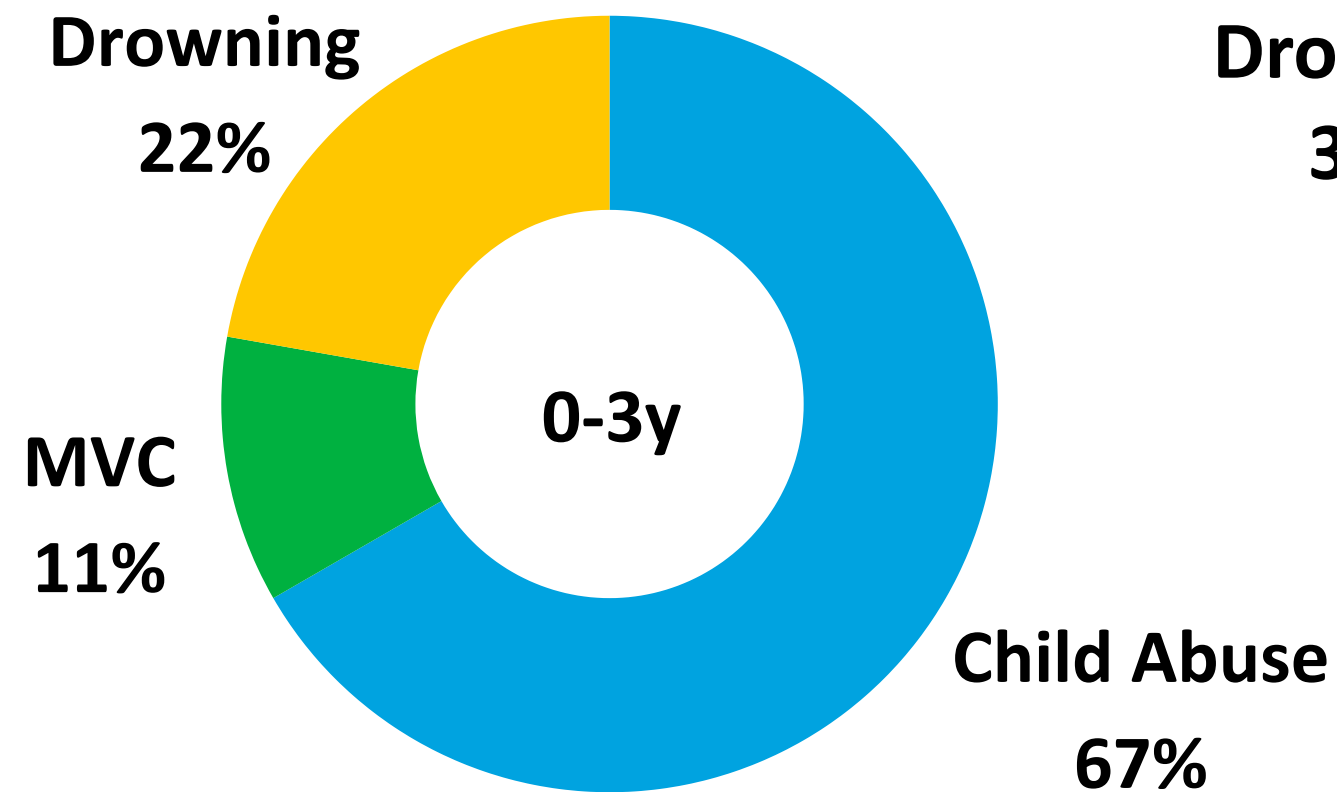
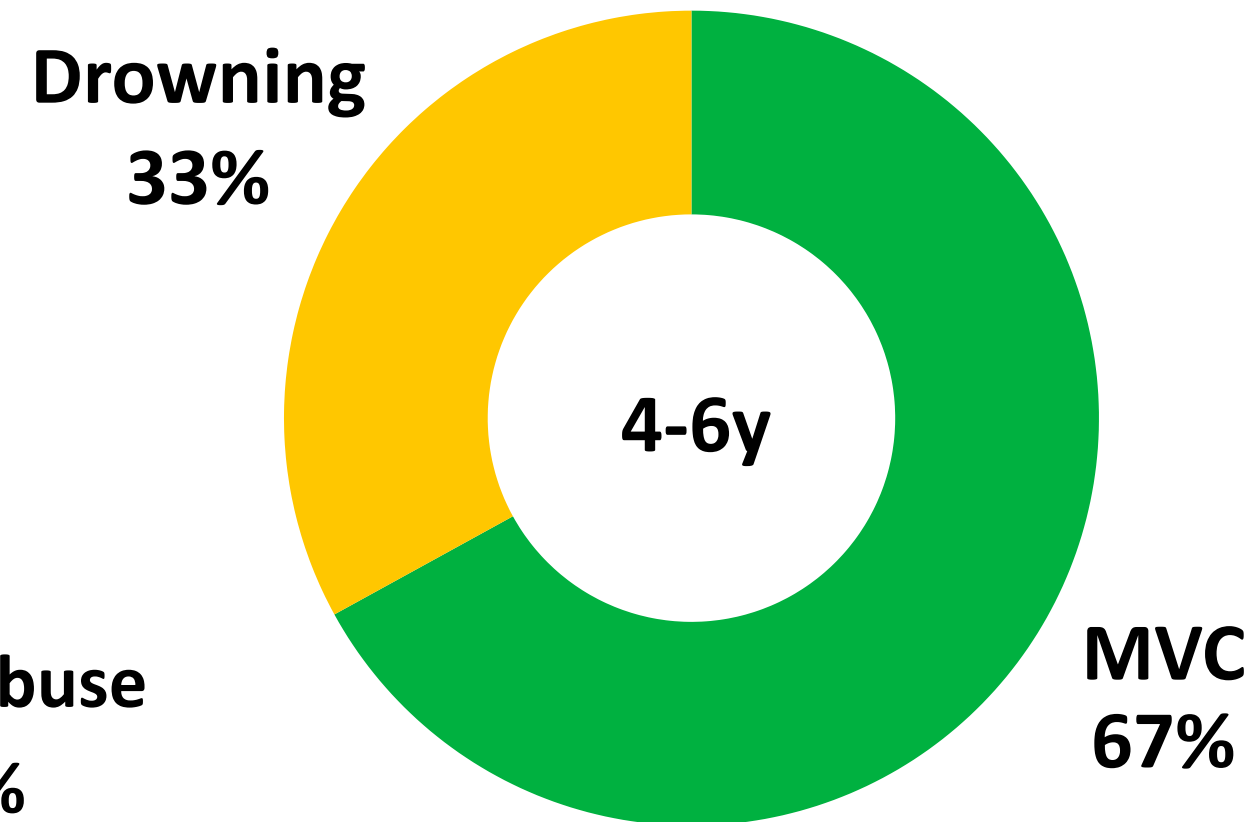
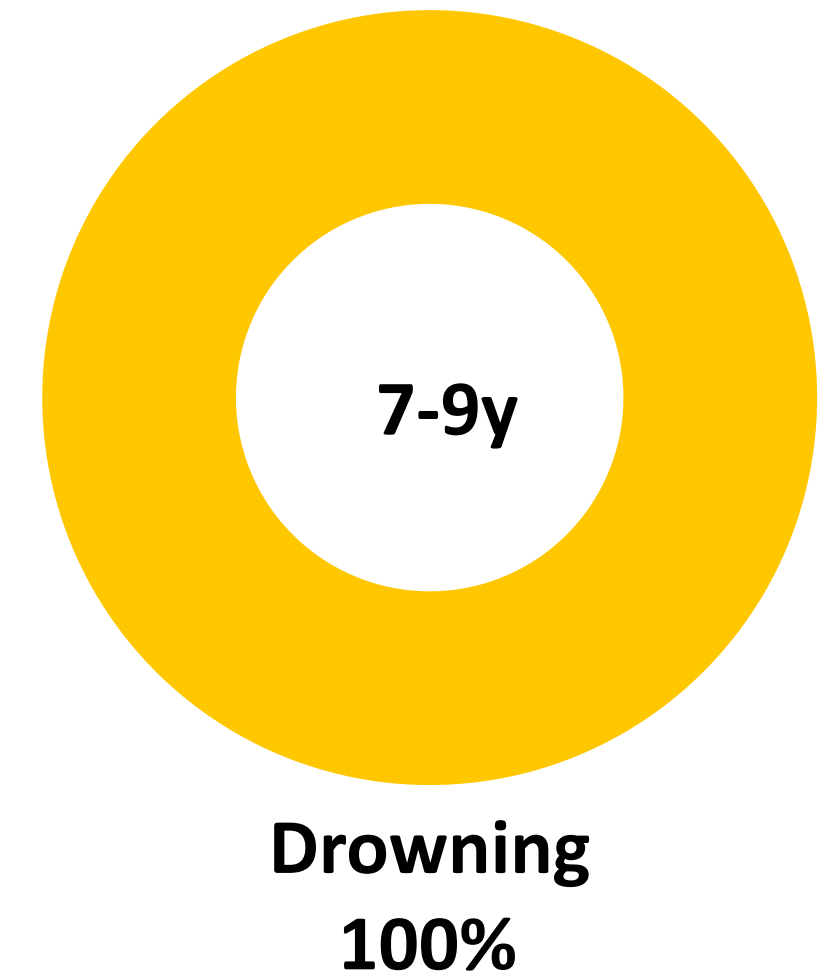
Word Cloud



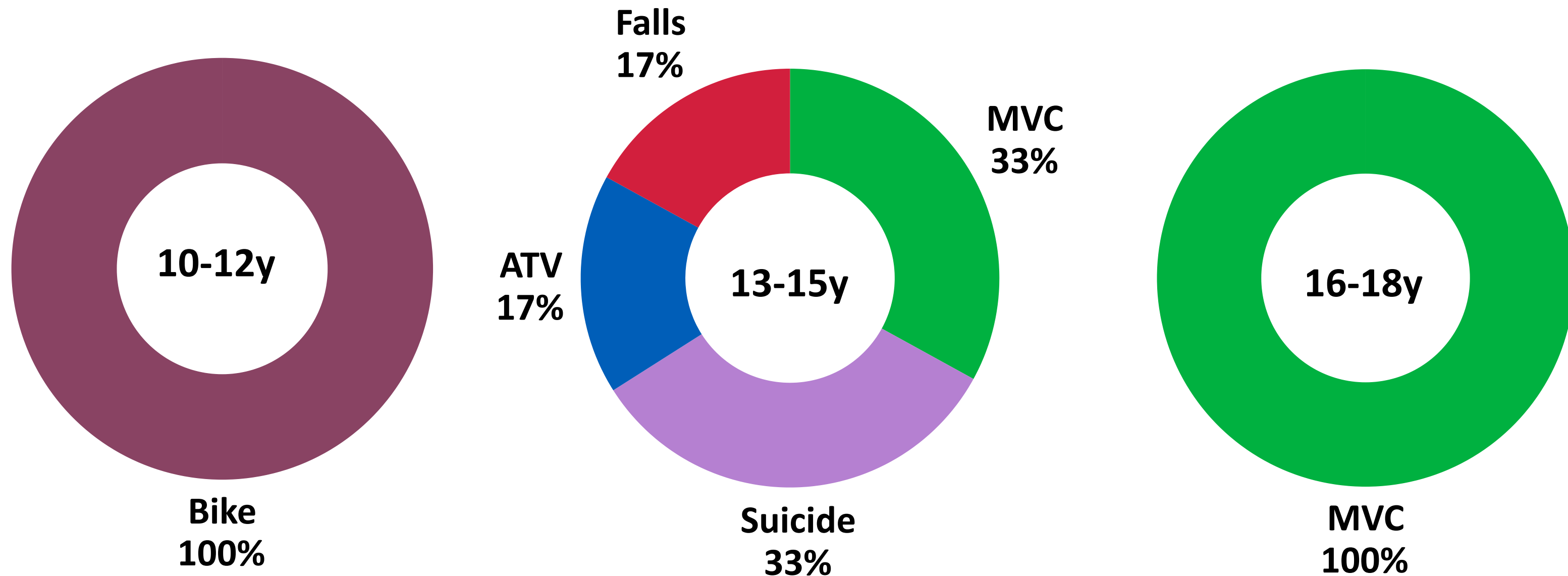
2025 Mortality Data



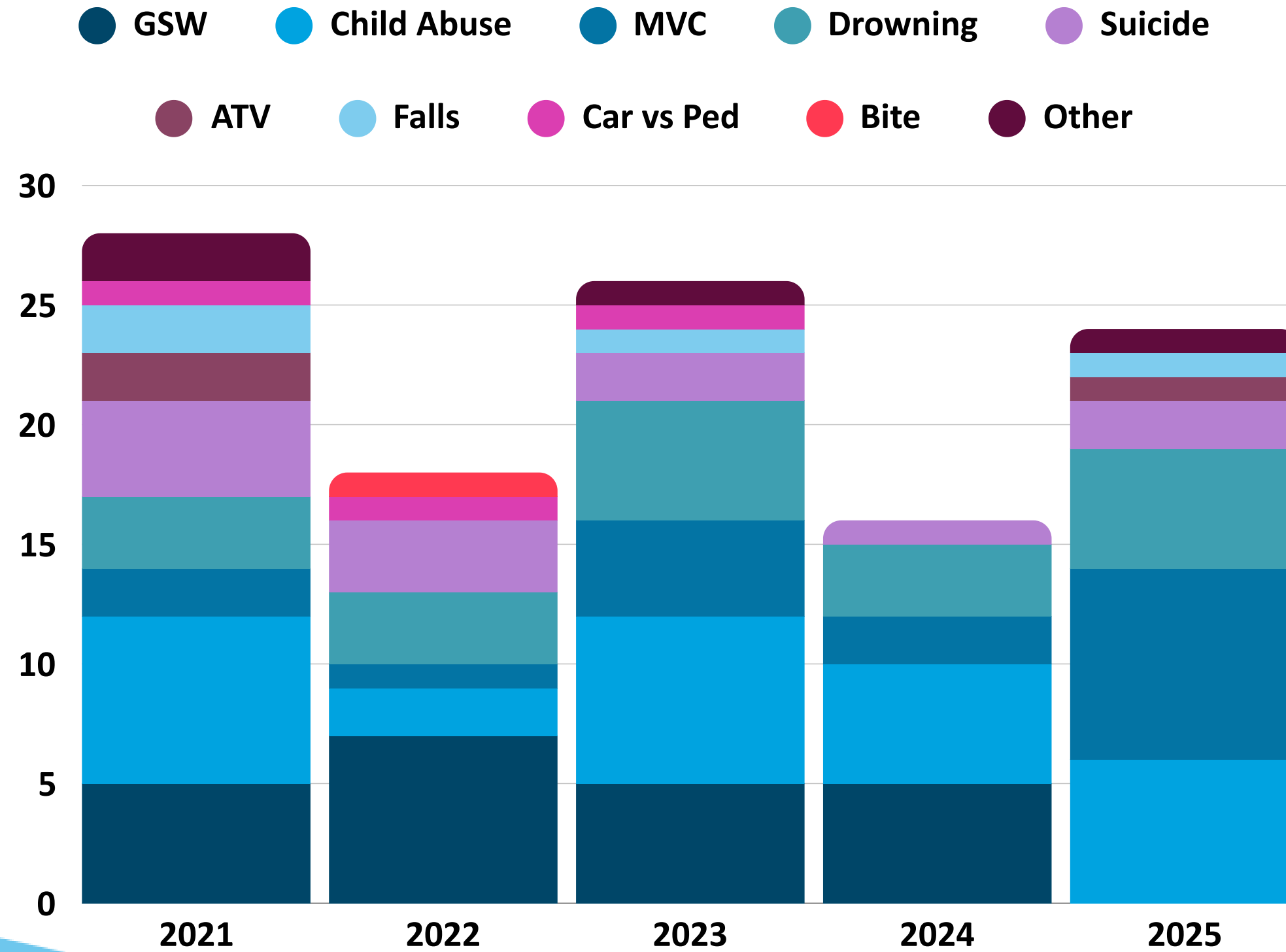
2025 Mortality Data by Age



2025 Mortality Data



Mortality Data Trends



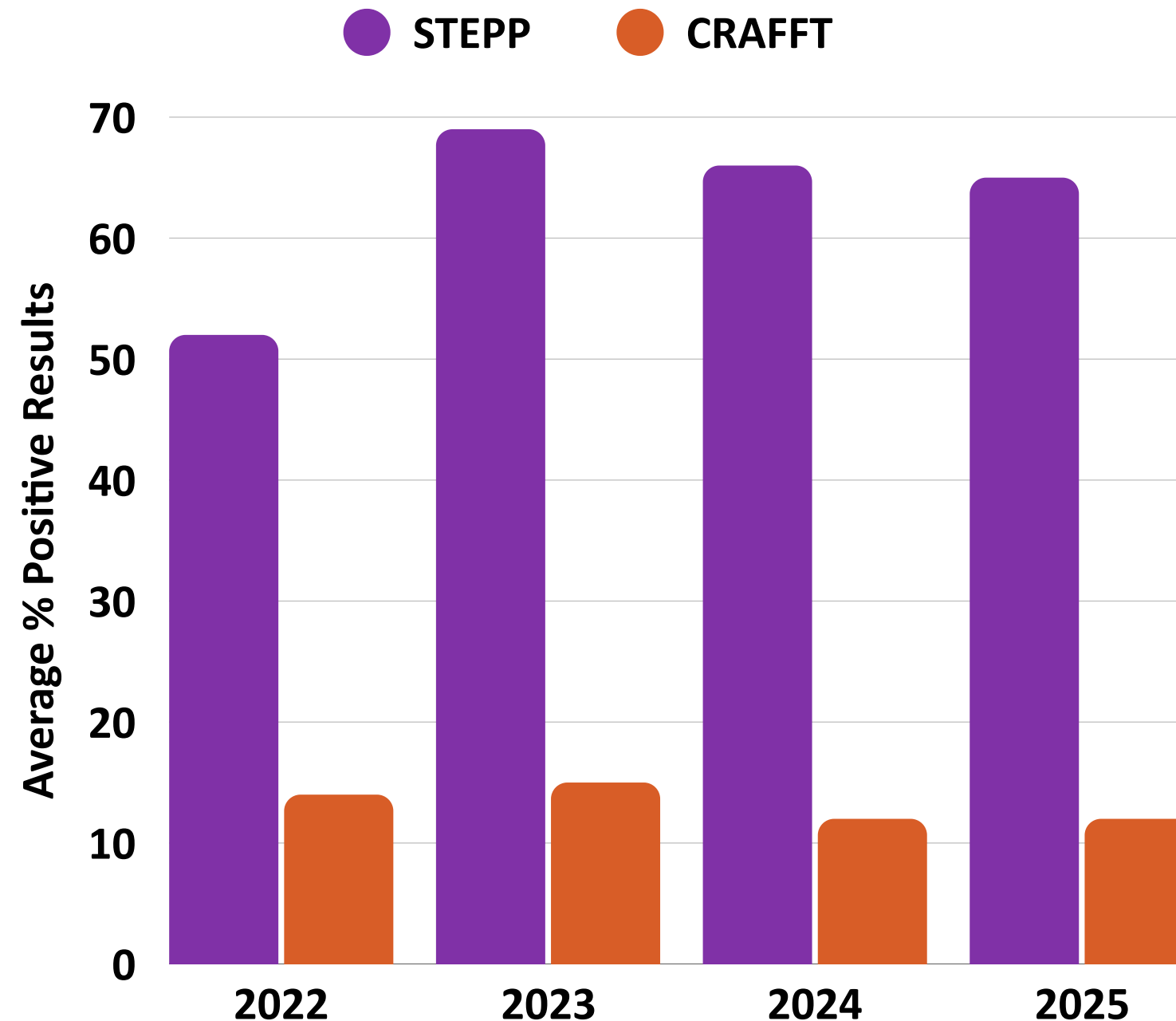
Screenings

Acute Stress

Screening (STEPP):

- 8-17 years of age
- admitted for 24 hours or more.

Average Positive Screening Scores



Substance use

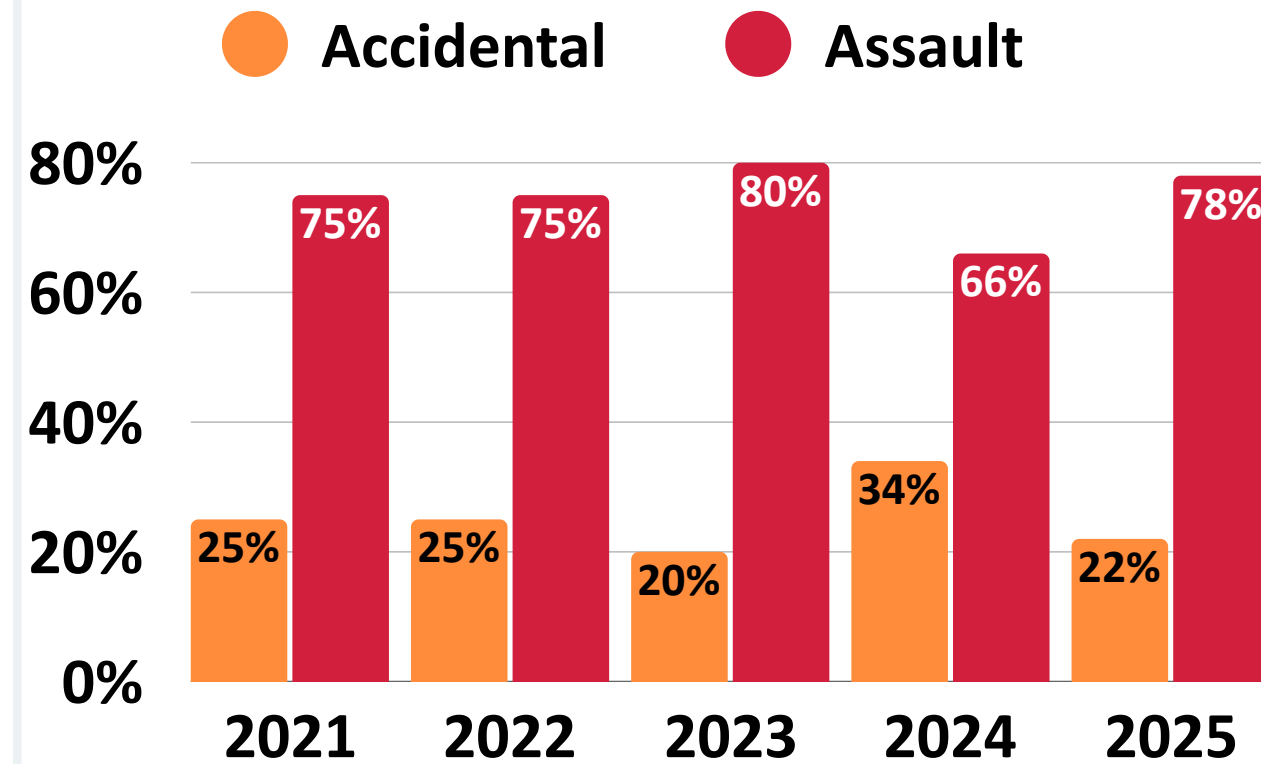
(CRAFFT):

- all admitted patients 12 years and up

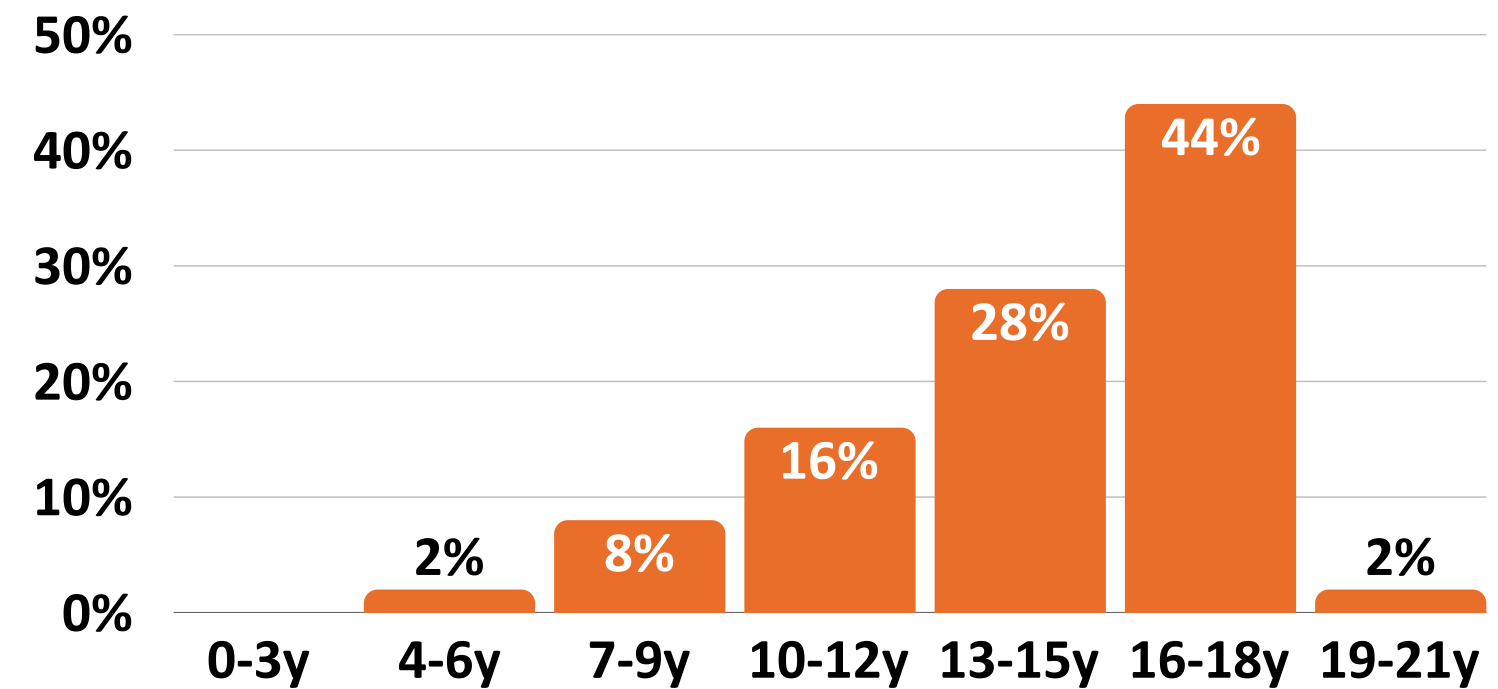
Notable Data

Notable Data: Firearm Injuries

GSW by Intent

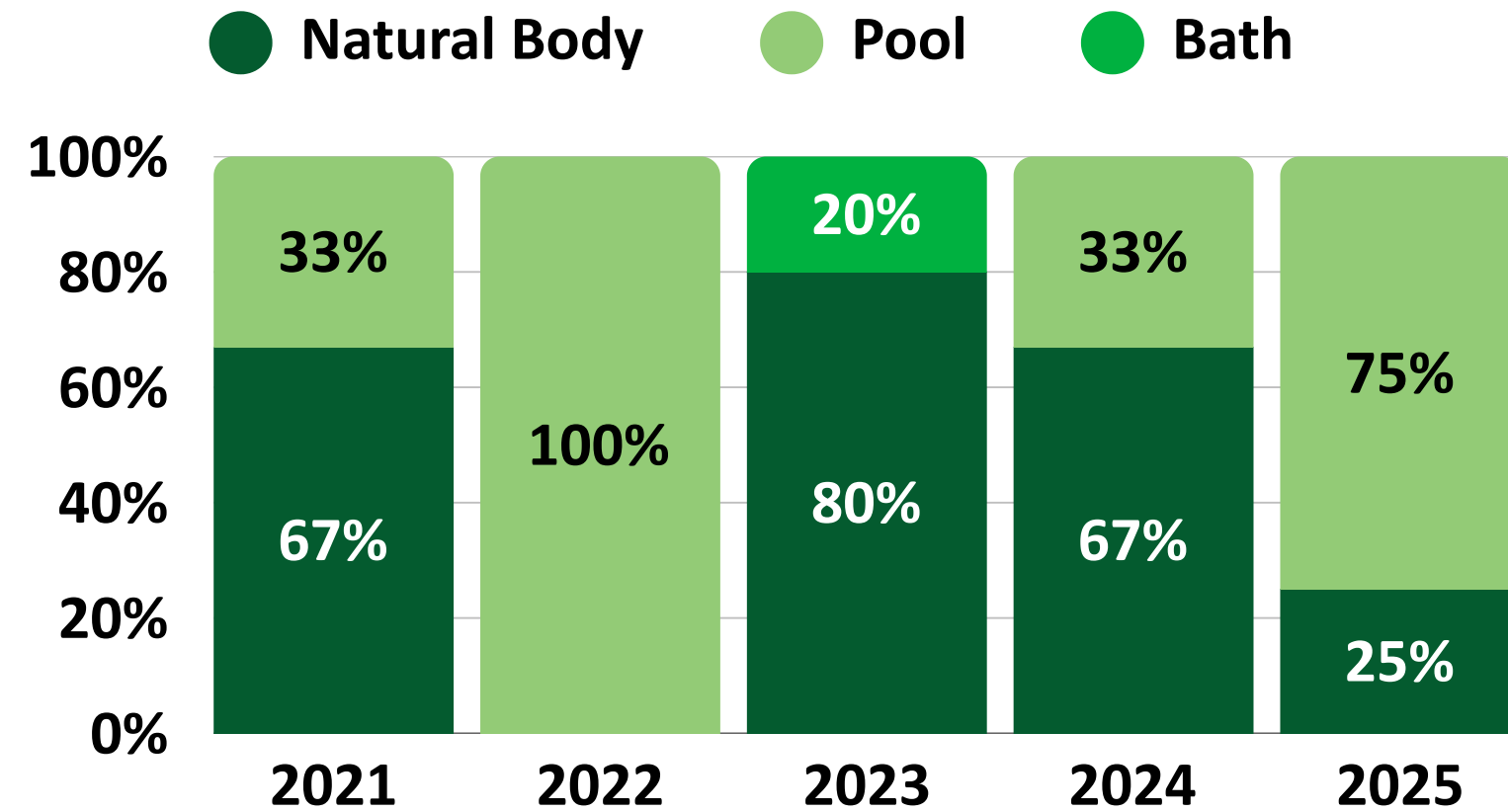


2025 Age Breakdown of GSW Injuries

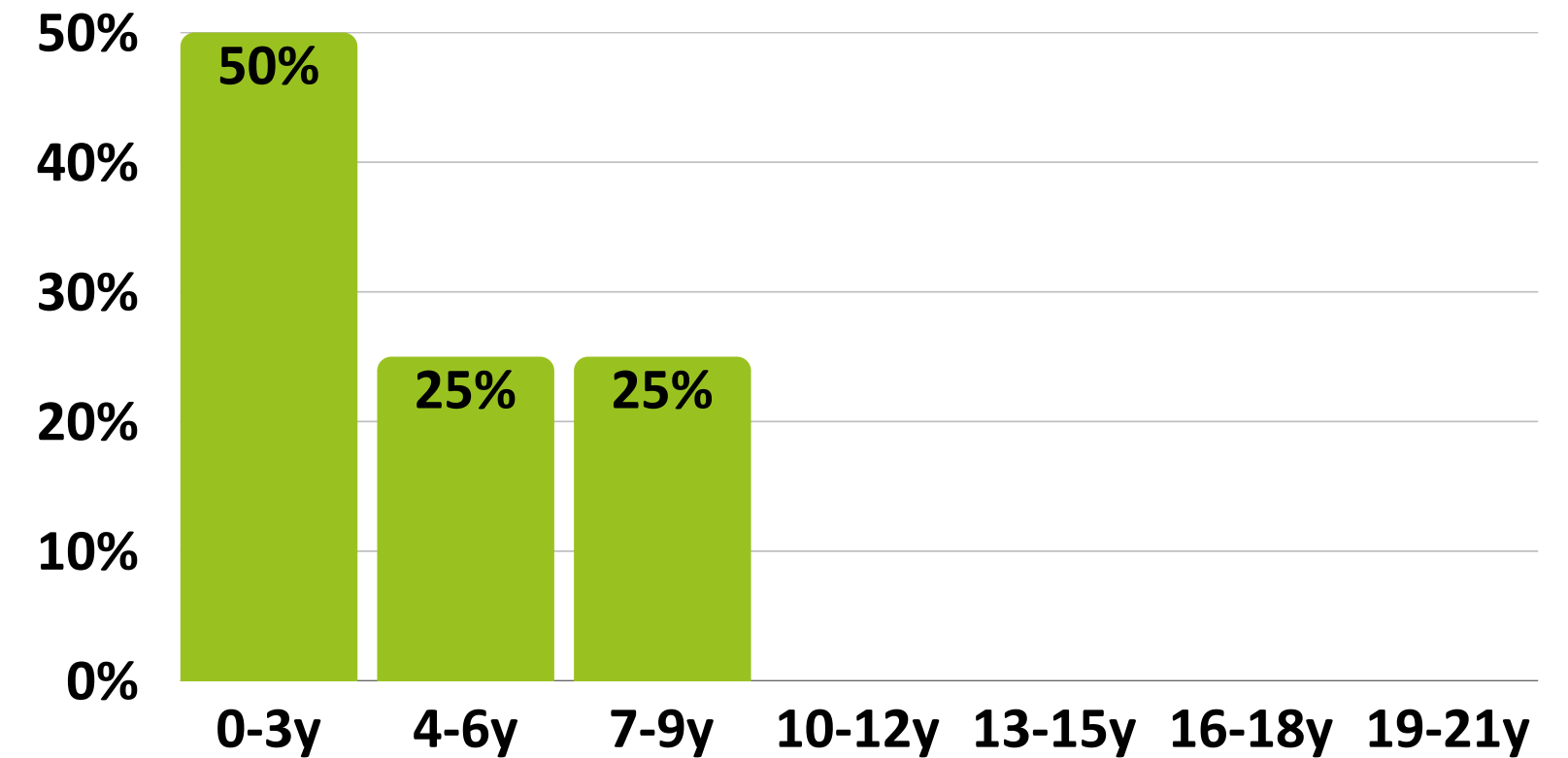


Notable Data: Drownings

Drowning Death Location

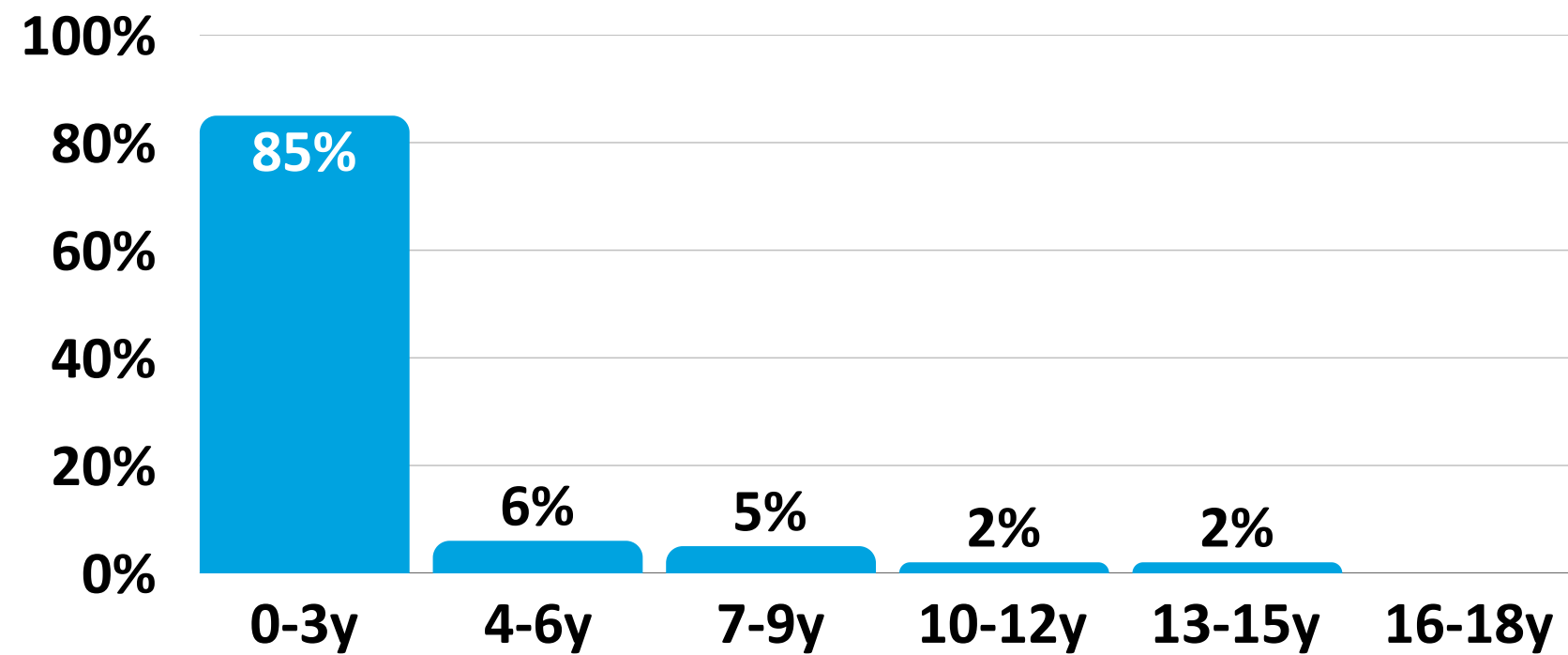


2025 Age Breakdown of Drowning Deaths

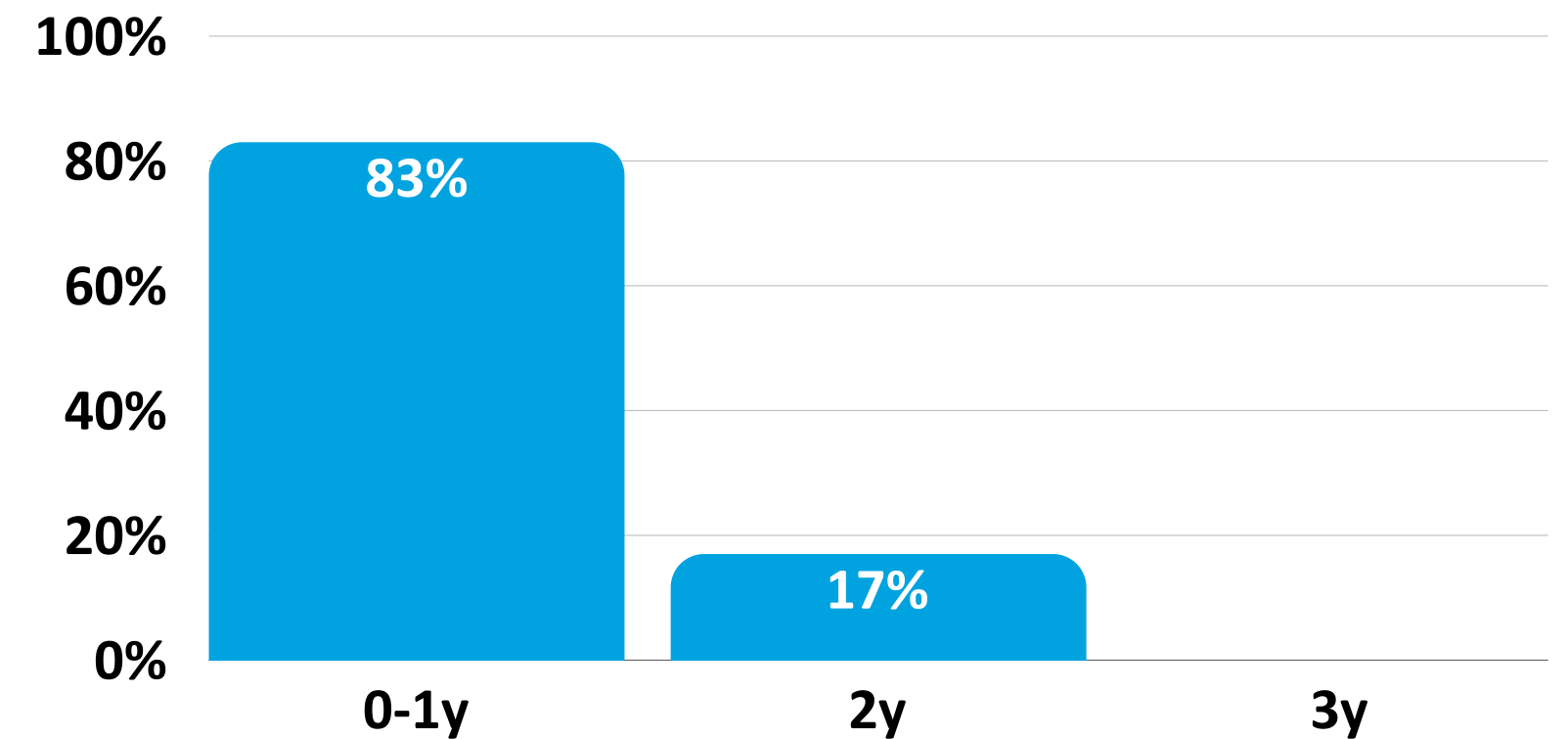


Notable Data: Physical Abuse

2025 Age Breakdown for Child Abuse Injuries

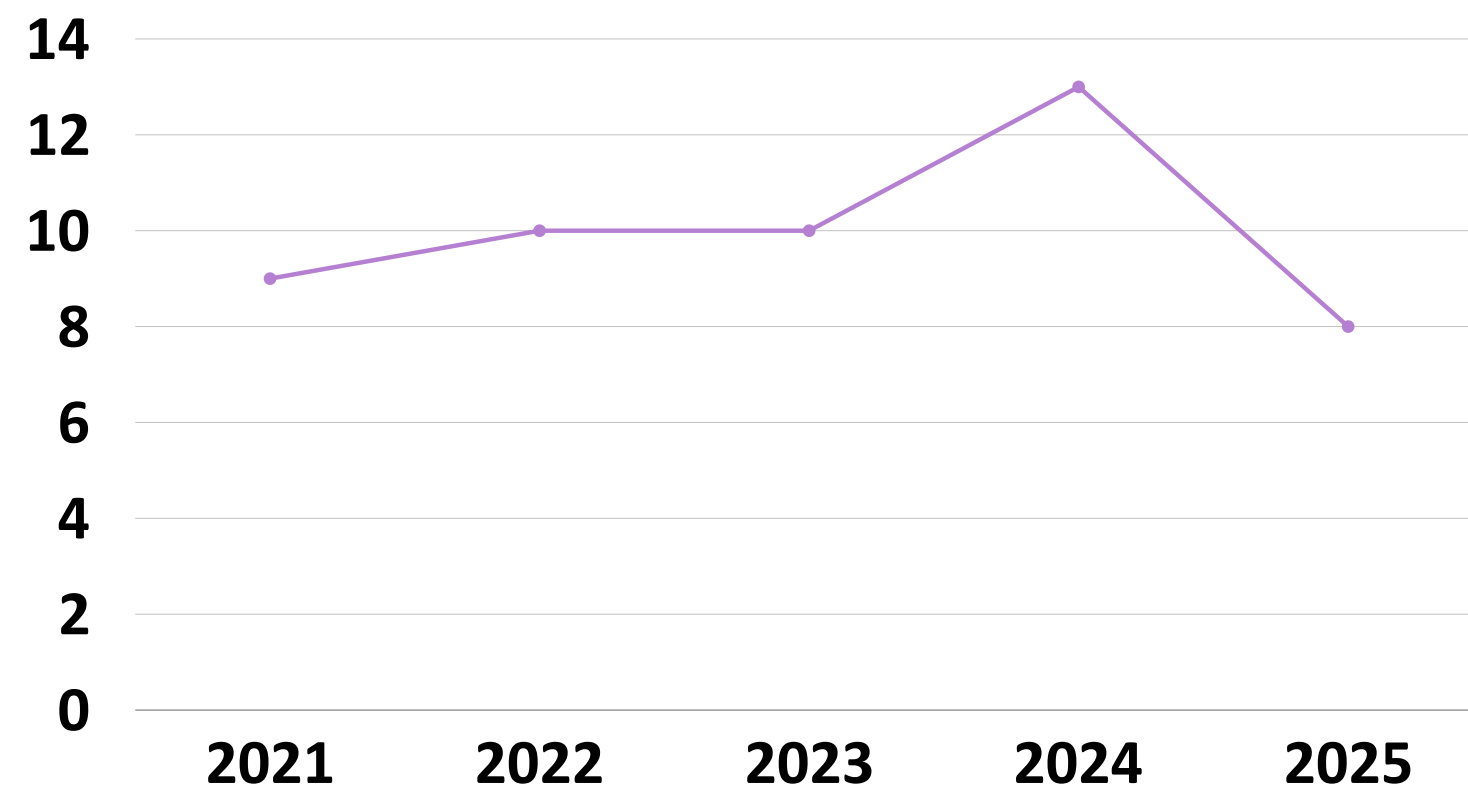


2025 Age Breakdown for Child Abuse Deaths

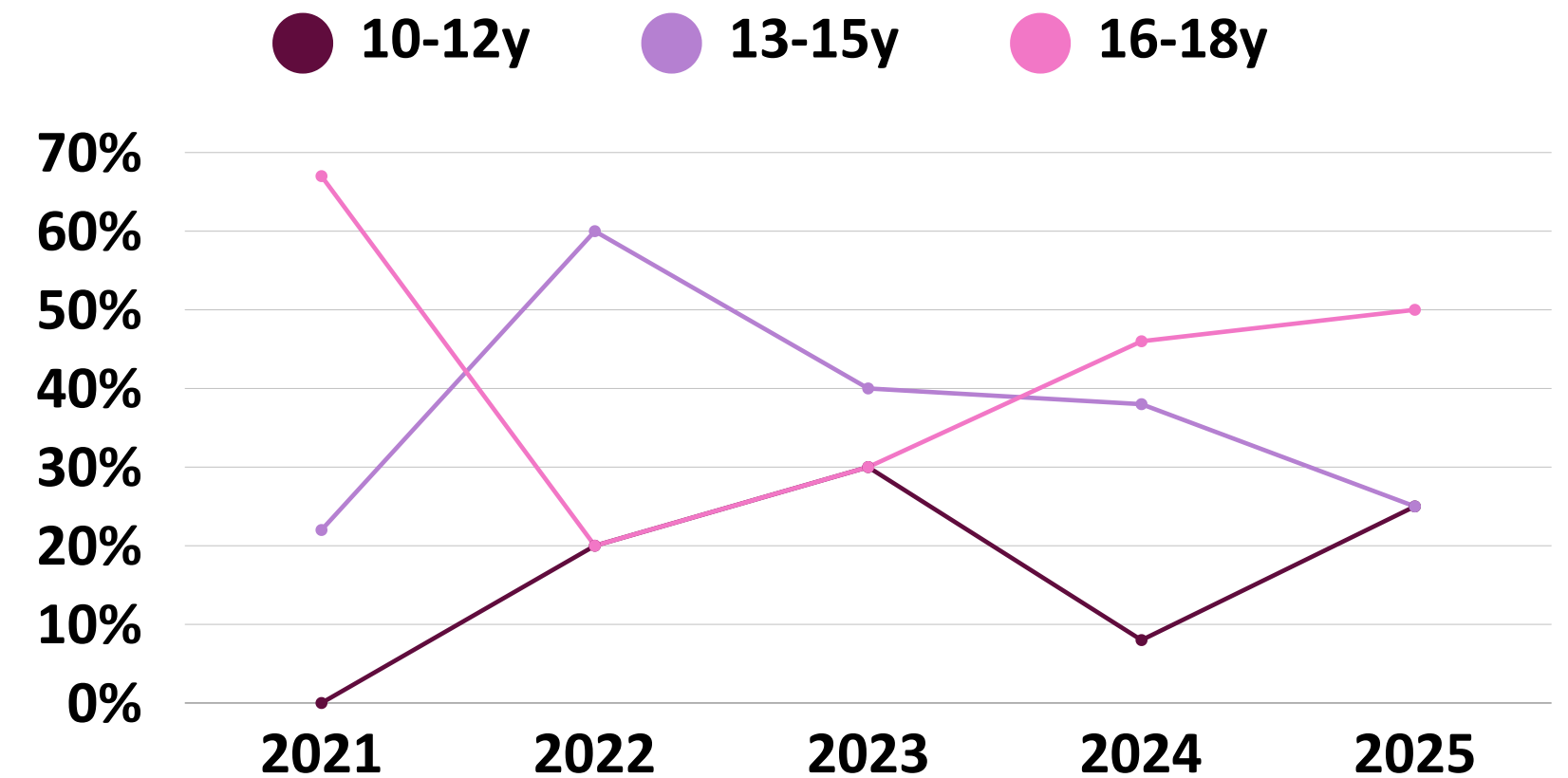


Notable Data: Suicide

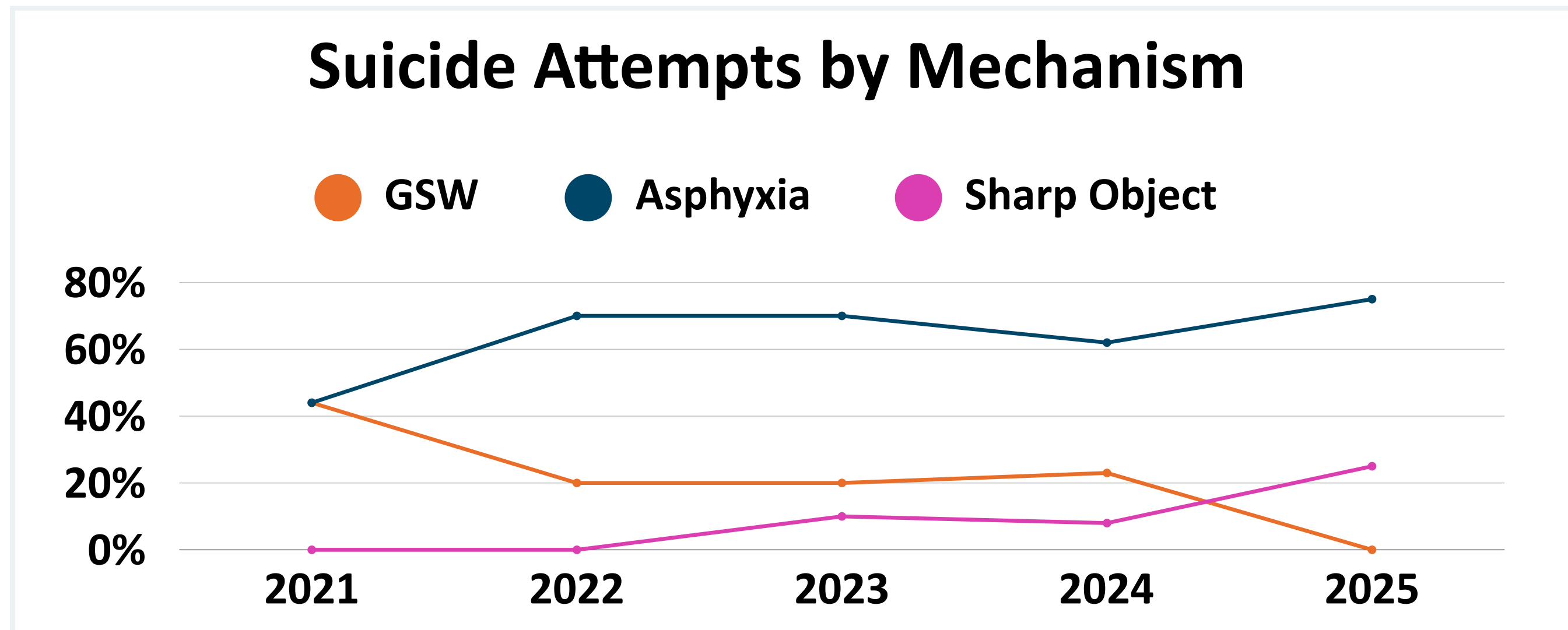
Total Trauma-Related Suicide Attempts



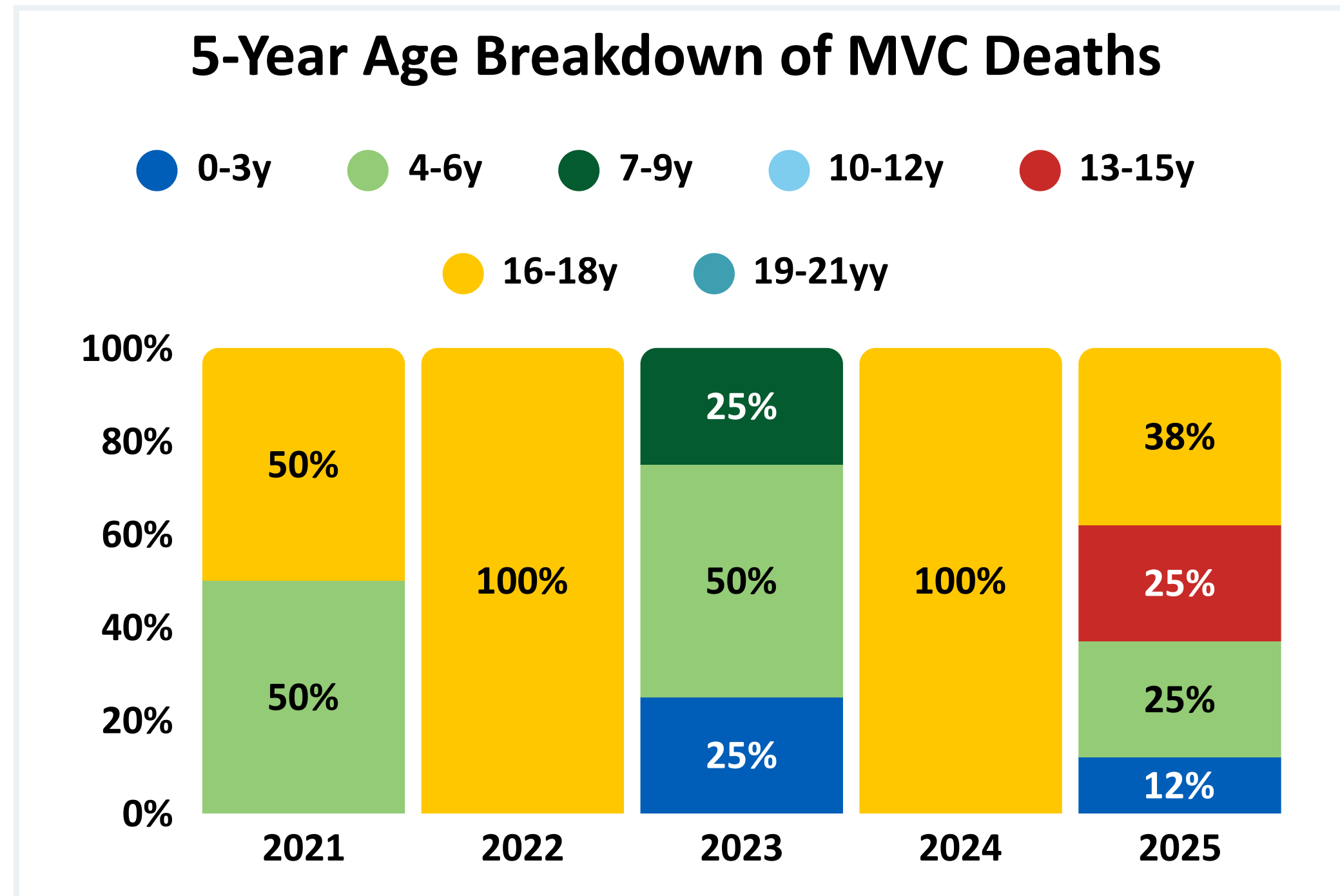
Total Trauma-Related Suicide Attempts by Age



Notable Data: Suicide

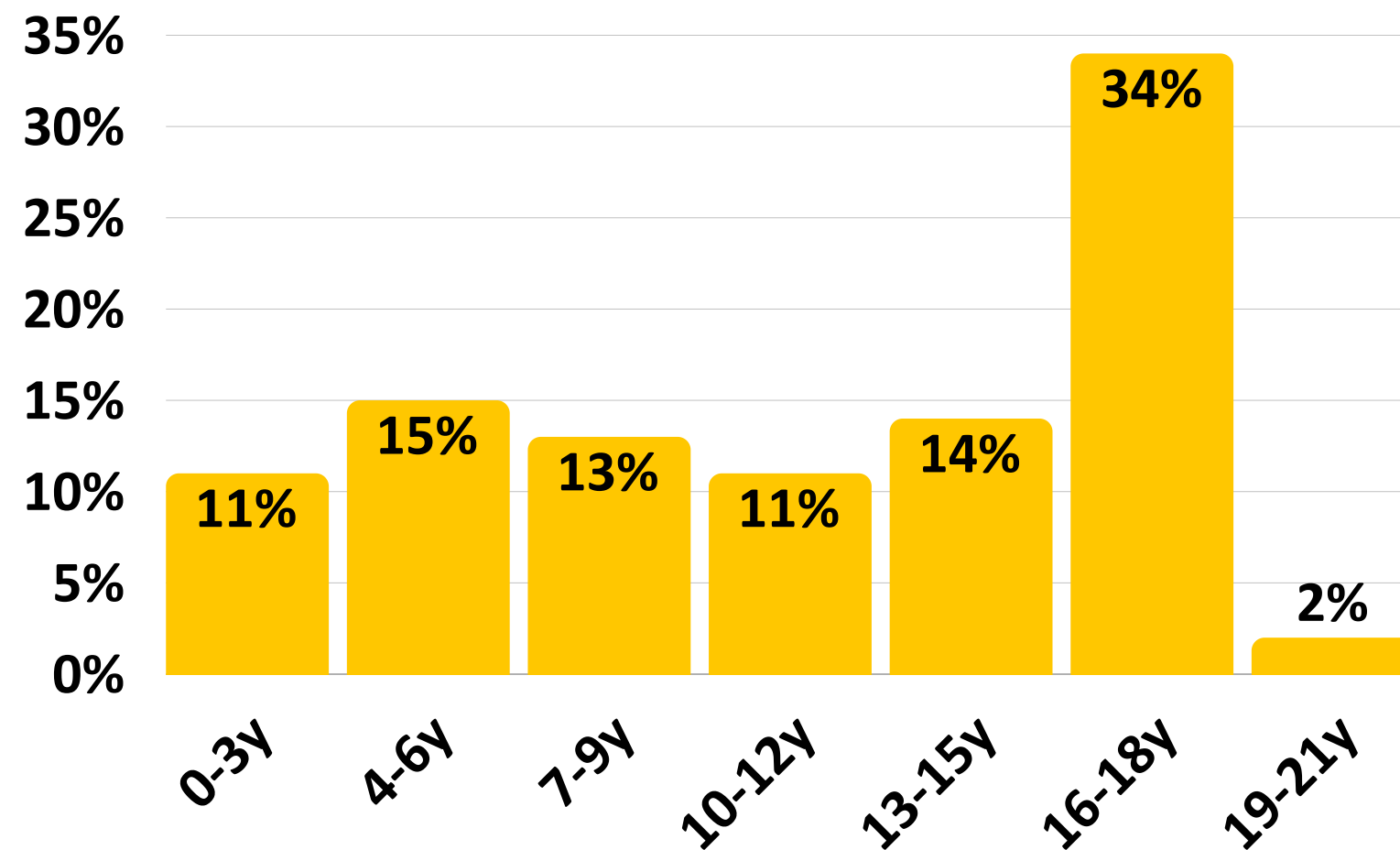


Notable Data: MVC Deaths

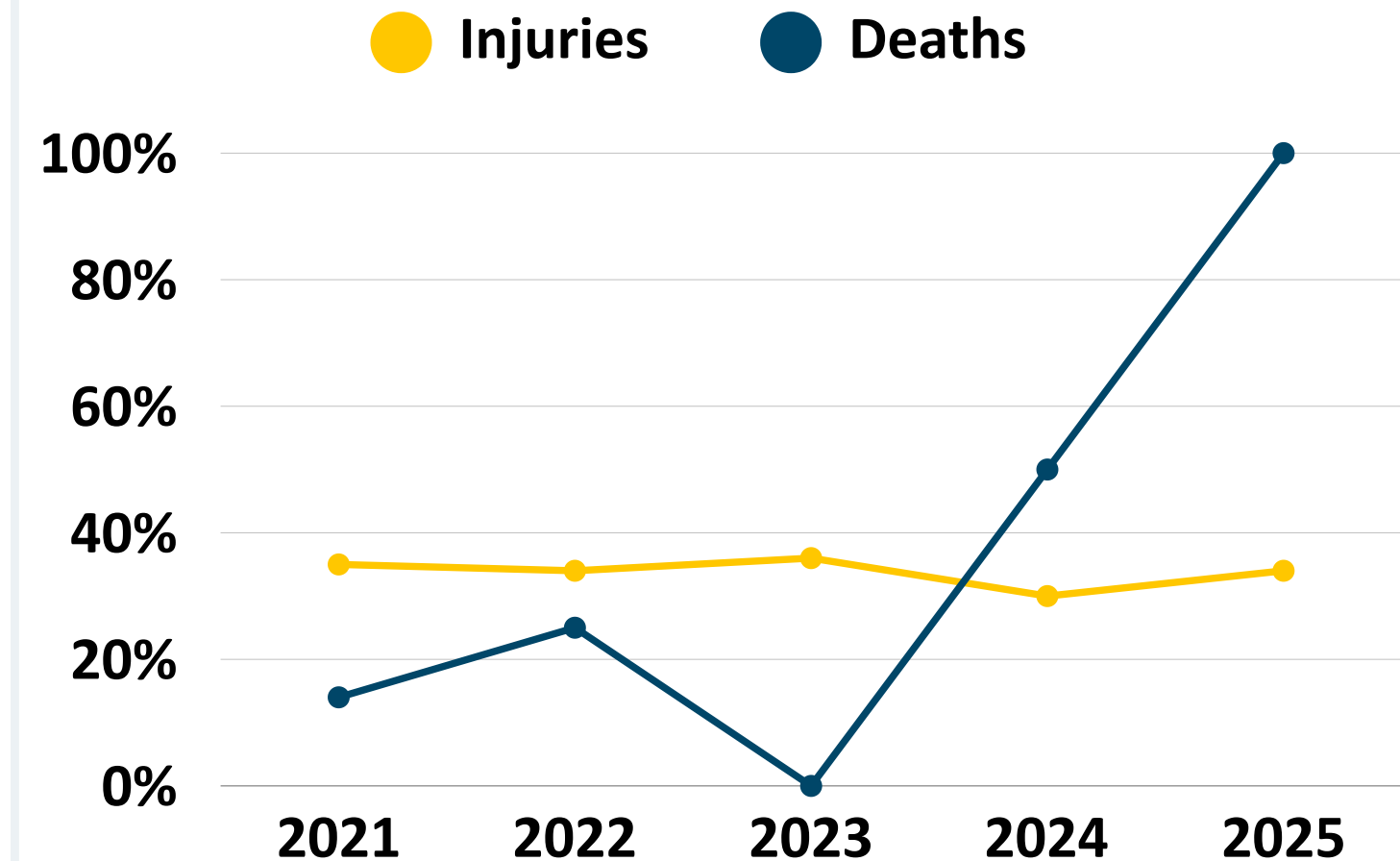


Notable Data: MVC Deaths

2025 MVC Injury Age Breakdown

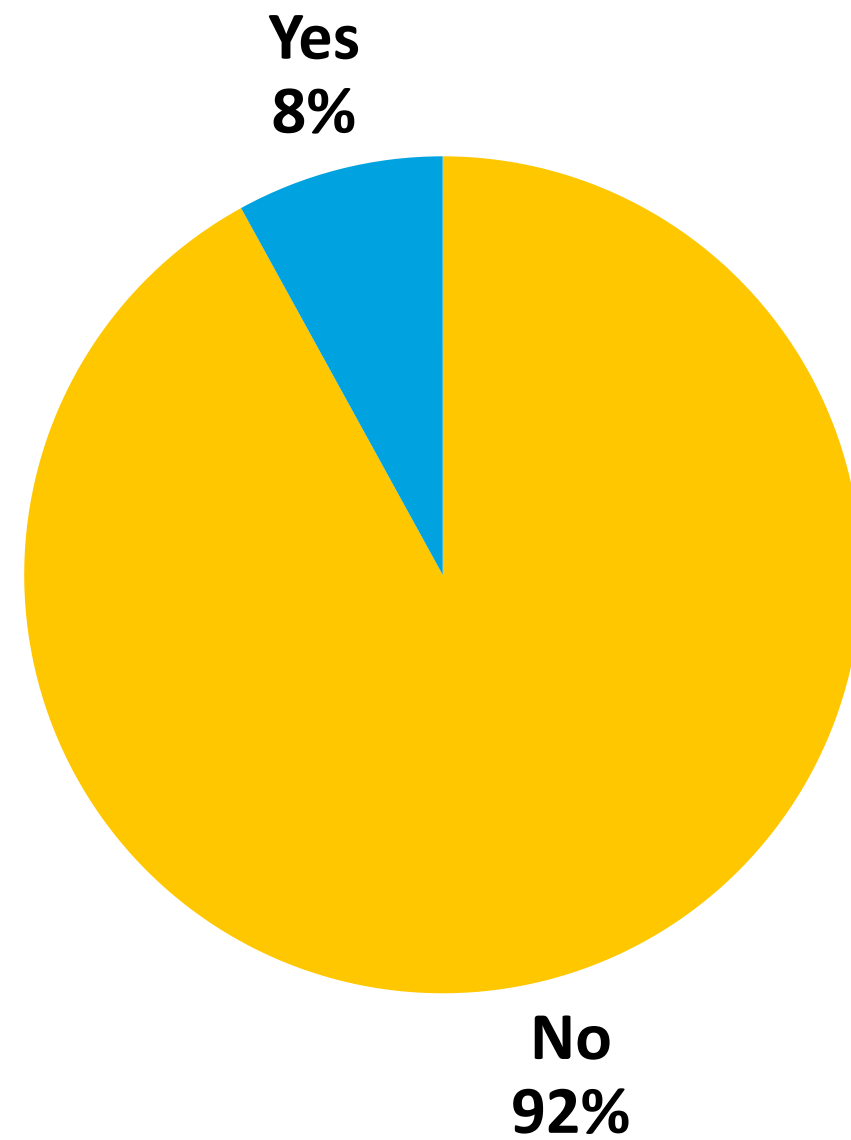


MVC 16-18 years

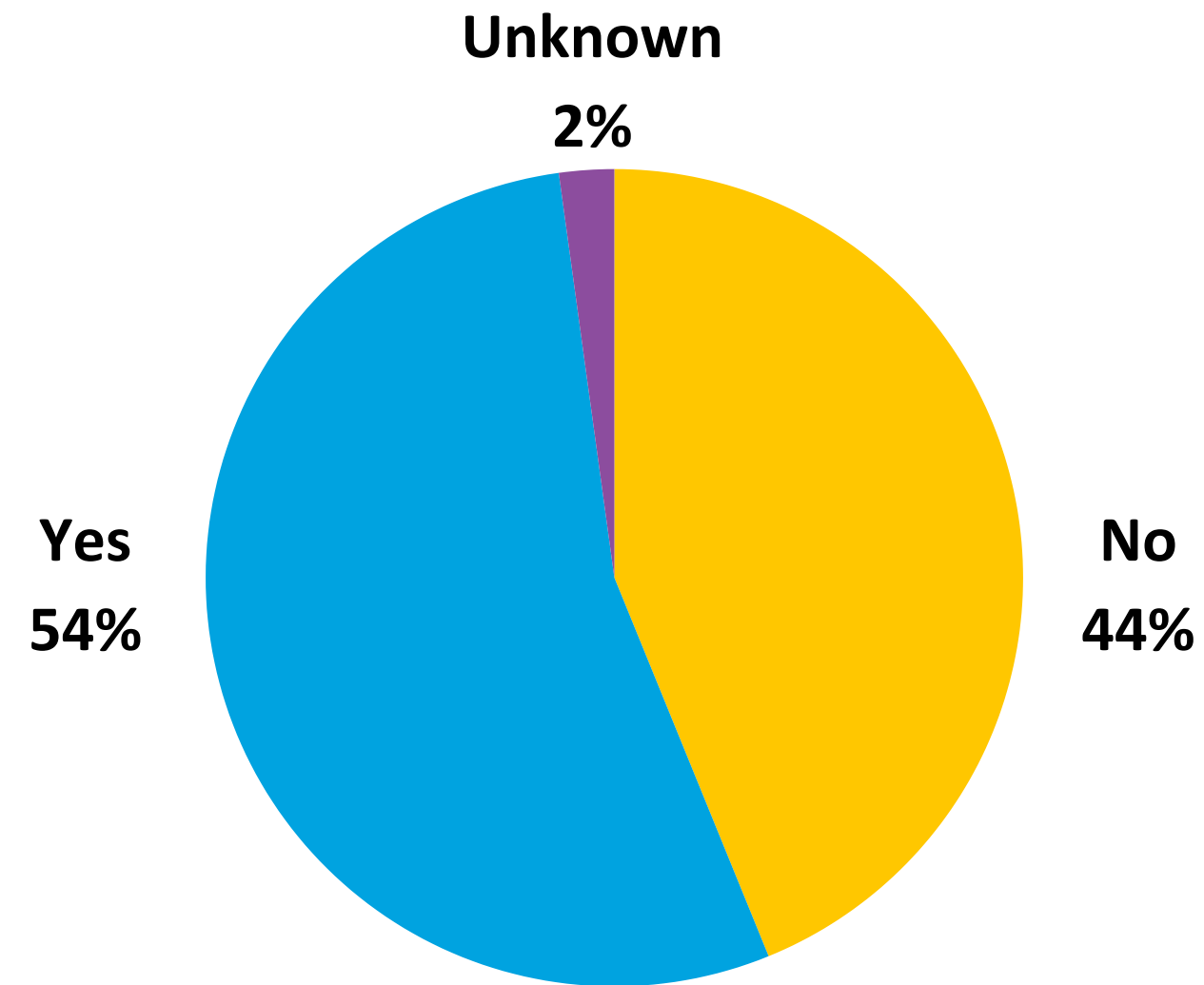


2025 Protective Behaviors

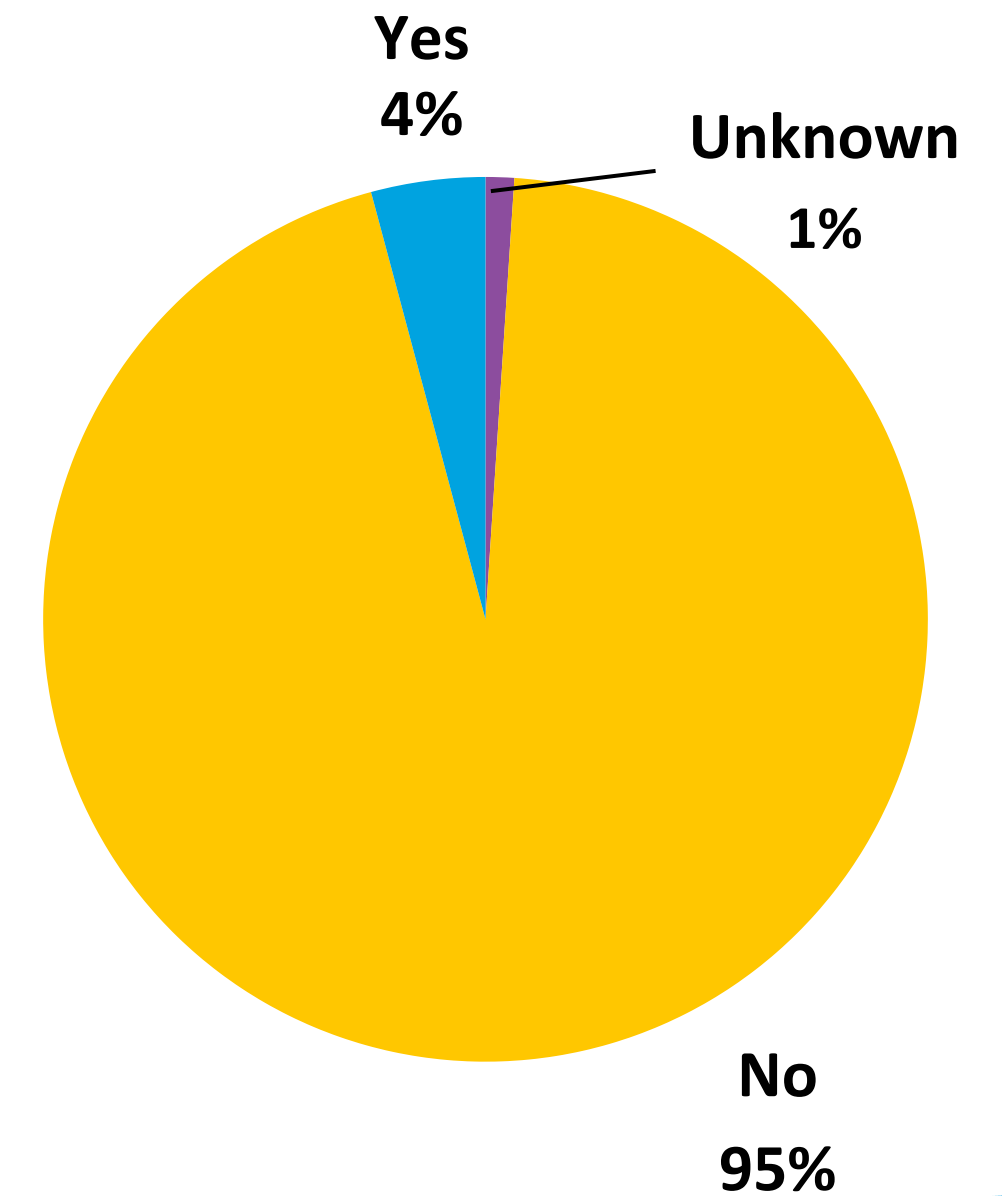
Bike Helmet Use



Restraint in MVC



ATV Helmet Use



Where do we go from here?

ACH Injury Prevention



**1237 Car seats
provided**



**2817 students reached
with ATV Safety Ed.**



**Teen Driving
(program revamp)**



**Safety Zone
(2325 safety assessments)**



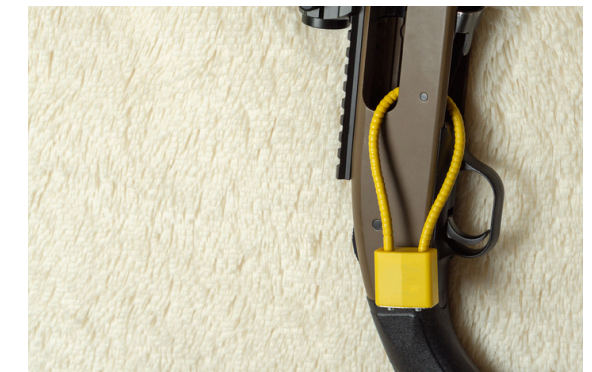
**Home Visiting Program
(1073 Home visits)**



**For MY Safety
(129 Packets
provided)**



**Junior Med Student IP
Simulations**



**Firearm Safety (250 gun
locks provided)**

Outreach/Education



20 classes
462 people trained

EMS Education

7 Trainings statewide



3 classes
29 nurses trained



5 classes
42 nurses trained
98% ACH ER nurses
trained

Research

- 9 Studies published or submitted for publication
- 4 Presentations (state and national)
- 1 Study Initiated

Thank you!

Digital version of 2025
ACH Trauma Report

