

2021 Arizona Trauma System Snapshot



Trauma Incidents Reported

65,396

Total Trauma Incidents
Reported in Arizona State
Trauma Registry*

474,239

Number of Injury-Related
Discharges in Hospital Discharge
Database*

Trauma Centers - 47 Total

13

Level I
Trauma Centers

1

Level I Pediatric
Trauma Center

6

Level III
Trauma Centers

27

Level IV
Trauma Centers

Mortality

1,716

Total Deaths Reported in
Arizona State Trauma Registry*
(2.62% of total trauma incidents)

Deaths by Mechanism of Injury

Fall - 611 Deaths

Firearm - 327 Deaths

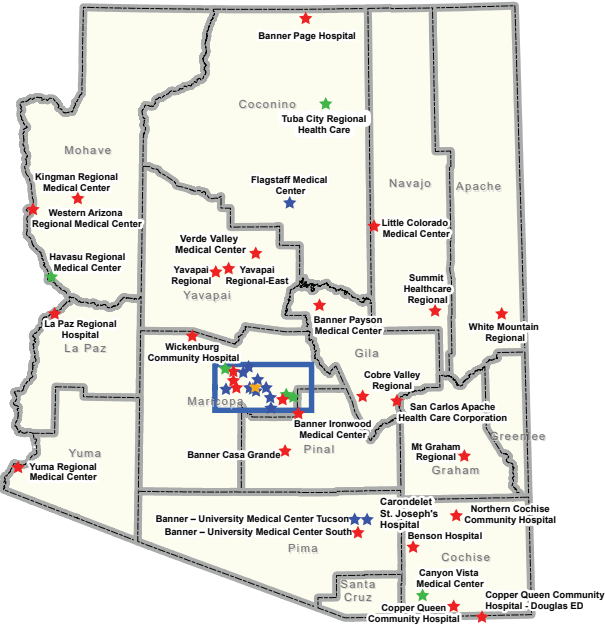
MVT - Occupant - 304 Deaths

MVT - Pedestrian - 137 Deaths

MVT - Motorcyclist - 95 Deaths

Of the top 6
Mechanisms
of Injury, **Firearms**
had the highest
mortality proportion
(15.53%), followed
by **Motor Vehicle
Trauma -
Occupant (2.48%)**.

Arizona Trauma Centers



13 Arizona
Counties
have at least
1 Trauma Center

Median Injury to
Emergency
Department
Arrival Time

Urban
47 Minutes

Rural
90 Minutes

Top 6 Mechanisms of Injury

- 1 Fall 30,788 (47.07%)
- 2 Motor Vehicle Trauma - Occupant 12,247 (18.72%)
- 3 Struck By/Against 3,942 (6.02%)
- 4 Motor Vehicle Non-Traffic 2,897 (4.42%)
- 5 Cut/Pierce 2,198 (3.36%)
- 6 Firearm 2,105 (3.21%)

Nearly **1 in 10** Injuries were due to
Assault or Self-Harm



Pediatrics (0-17)

7,069

Pediatric Trauma
Patients

78

Pediatric
Deaths



Firearms accounted
for **nearly 1/3** of
Pediatric Deaths



MVT-Occupant
accounted for **over
1/4** of Pediatric Deaths

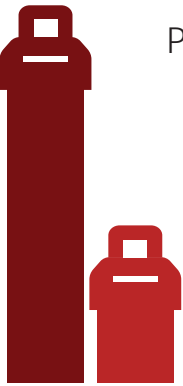
Top 6 Mechanisms of Injury

- 1 Fall 2,130 (30.13%)
- 2 MVT - Occupant 1,558 (22.04%)
- 3 MV Non-Traffic 602 (8.52%)
- 4 Struck By/Against 537 (7.60%)
- 5 Child Abuse 277 (3.92%)
- 6 Bites/stings, non-venomous 234 (3.31%)

Risk and Protective Factors - Opportunities for Injury Prevention

29.67%

of motor vehicle
occupants were
NOT using a
passenger restraint



Passengers were
4x
more likely to
die in a car
accident if
not wearing
a seatbelt



57.2% of motorcyclists
36.5% of pedalcyclists
Less than 1/3 of off-
road vehicle occupants
wore helmets

Motorcyclists
without helmets were:

2x more likely to die
2x more likely to
suffer a Traumatic
Brain Injury



25%

of trauma patients were
suspected or confirmed
of being under the
influence of drugs or
alcohol

Males had a mortality rate
over **2x** higher than females

Adults 65 years and older had the **highest
trauma rate** compared to all other age groups

The most significant risk factor associated
with traumatic injuries is **drug and alcohol use**

*The data included in this report includes incidents of traumatic injury with an Emergency Department Hospital Arrival Date between January 1, 2021 and December 31, 2021 reported from facilities participating in the Arizona State Trauma Registry (ASTR) only. Trauma injury and mortality reported in ASTR are compared to the Hospital Discharge Database (HDD) and Vital Statistics Information Management System's Database Applications for Vital Events (DAVE) to demonstrate the total impact of trauma injuries and deaths that occurred outside of designated trauma centers.