2020 Arizona Trauma System Snapshot



Designated Arizona Trauma Centers

Trauma Centers

Total Number of Trauma Centers in Arizona

13 Level I

Level I Pediatric Trauma Centers Trauma Center

Level III

27 Level IV

Trauma Centers Trauma Centers

Trauma Incidents Reported

58,041

Number of Trauma Incidents Reported in Arizona State Trauma Registry*

1.442

(2.5% of total trauma incidents) **Total Deaths Reported in Arizona State Trauma Registry***

473,446

Number of Injury-Related Discharges in Hospital Discharge Database*

3.952

Total Traumatic Deaths Reported in Database Application for Vital Events*

Top 6 Mechanisms of Injury

Count (Percent of Total Trauma Cases)

Fall 27,649 (47.63%)



Motor Vehicle Trauma - Occupant 9,891 (17.04%)



Struck By/Against 3,584 (6.17%)



Motor Vehicle Non-Traffic 2,608 (4.49%)



Cut/Pierce 2,127 (3.66%)



Firearm 1,991 (3.43%)

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



Firearms 14.22%



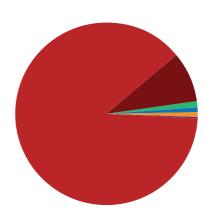
Motor Vehicle Trauma - Occupant 2.04%



6,214 (10.7% of total trauma incidents) involved pediatric patients

Intent of Injury

Count (Percent of Total Trauma Cases)



Unintentional 51,227 (88.26%) Assault 5,037 (8.67%)

Self-Harm 740 (1.27%)

Not Documented 521 (0.89%)

Undetermined 398 (0.68%)

Legal/War 118 (0.20%)



Median Injury to Emergency Department Arrival Time

Urban

Rural

48 Minutes 79 Minutes

Risk and Protective Factors - Highlights

Males had a mortality rate over two times higher than females

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



67% of MVT occupants were using a passenger restraint



25% of trauma patients were suspected or confirmed of being under the influence of drugs or alcohol

55% of motorcyclists. **41%** of pedal-cyclists. and **less than 1/3** of off-road vehicle occupants were wearing a helmet when involved in a trauma



*The data included in this report includes incidents of traumatic injury with an Emergency Department Hospital Arrival Date between January 1, 2020 and December 31, 2020 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.