

TRCC Dashboard Documentation

The data used are traumatic injuries reported by hospitals, which must report spinal cord injuries, traumatic brain injuries, and other traumatic injuries specified in Title 25, Chapter 103 of the Texas Administrative Code.

Limitations

Texas EMS and Trauma Registry data are based on passive surveillance of records submitted by Texas EMS entities and hospitals. The Registries can only report on records that it receives and should not be considered complete or representative of all Texas EMS entities and hospitals. More appropriate data sources looking at population data are, Hospital Discharge Data and Mortality Data available via the Center for Health Statistics <https://www.dshs.texas.gov/chs/> Data from the Registries may not be unique or capture every single incidence in the field. For example, a trauma patient who is transferred from one facility to another will result in multiple records in the Registry, if both hospitals report, the patient will be counted multiple times.

Resources:

Trauma data dictionary: NATIONAL TRAUMA DATA STANDARD DATA DICTIONARY 2020 ADMISSIONS

Injury Indicators Instructions: Thomas KE, Johnson RL. State Injury Indicators Report: Instructions for Preparing 2020 Data. Atlanta (GA): Centers for Disease Control and Prevention, National Center for Injury Prevention and Control; 2022

Suppression Rules

Non-missing cells with nonzero values less than 5 are suppressed.

1. Motor vehicle involvement = “motor vehicle” if injury mechanism is one of the following:
 - a. 07.11.MVT-OCCUPANT
 - b. 07.12.MVT-MOTORCYCLIST
 - c. 07.13.PEDAL CYCLIST (assumed to be MVT – PEDAL CYCLIST)
 - d. 07.14.MVT-PEDESTRIAN
 - e. 07.15.MVT-OTHER
 - f. 07.16.MVT-UNSPECIFIED
2. Person Type = “Pedestrian” if injury mechanism is 07.14.MVT-PEDESTRIAN or 07.40. PEDESTRIAN, OTHER
3. Person Type = “Pedalcyclist” if injury mechanism is 07.13 PEDAL CYCLIST (assumed to be MVT – PEDAL CYCLIST) or 07.30.PEDAL CYCLIST, OTHER
4. Age Group = 0-9; 10-14, 15-19,20-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85+
5. Sex = Male and Female. Entries identified as “Others” were dropped as they were few in number.
6. Race and Ethnicity = Predefined by DSHS
7. Body Part Injury Diagnosis follows Injury, poisoning and certain other consequences of external causes S00-T88 from www.icd10data.com
8. Injury Classification = Re-classified into the following categories:
 - a. Amputation
 - b. Burns/Corrosions
 - c. Contusion/superficial injury
 - d. Crushing
 - e. Dislocation
 - f. Fracture
 - g. Injury to blood vessel
 - h. Internal organ injury
 - i. Nerve/Spinal Cord Injury
 - j. Open Wound (Laceration/Puncture)
 - k. Poisoning (drug)
 - l. Poisoning (non-drug)

- m. Sprain/Strain
- n. TBI
- o. Unspecified/Other/Other external causes

The re-classification followed NHS Reports – Proposed Framework for the 2016 proposed ICD, 10th Revision, Clinical Modification Injury Diagnosis Matrix (report attached in the email)

9. Hospital Disposition = The different disposition categories were re-classified as the following:
 - a. Deceased/ Expired
 - b. Discharged/ Transferred/ Left AMA
 - c. Not Applicable/ Unknown

10. Incident time was classified according to the following categories based on the literature (Steed and Bhat, 2000, Okola, 2003; attached in the email): (1) early morning (midnight–6:30 a.m.); (2) a.m. peak (6:30 a.m.–9:00 a.m.); (3) a.m. off-peak (9:00–noon); (4) p.m. off-peak (noon–4:00 p.m.); (5) p.m. peak (4:00 p.m.–6:30 p.m.); (6) evening (6:30 p.m.–midnight)

11. Incident Location Type was re-classified into the following categories (see the attached document: CHAPTER 19 - Injury, Poisoning with answers):
 - a) Non-institutional Residence that includes single family home, mobile homes, apartment, boarding house and such.
 - b) Institutional residence that includes orphanage, nursing home, military base, prison and school dormitory and such.
 - c) School, or other public administrative area that includes school, religious institution, hospital, courthouse, museum and such.
 - d) Sports and athletic area that includes athletic court, field, skating rink, pool and such.
 - e) Street and paved road
 - f) Trade and Service area that includes bank, MD office. Airport, restaurant, café and such.
 - g) Industrial and construction that includes factory, mine, oil rig and such.
 - h) Farm that includes barn, chicken coop, orchard and such.
 - i) Other places that include wilderness, recreation areas, railroad track and such.
 - j) Unspecified or N/A.

12. Signs of Life = Arrived with No signs of Life and Arrived with signs of Life (Predefined by DSHS)

13. Outcome = Fatal or Non-Fatal predefined by DSHS
14. Time to Scene = Average, minimum, maximum and count of time elapsed between “unit_notified_dispatch_time” and “unit_arrived_on_scene_time”
15. Time to Hospital = Average, minimum, maximum and count of time elapsed between “unit_left_scene_time” and “ed_hospital_arrival_time”
16. Incident 3 Digit Zip Code = Predefined by DSHS
17. Rural Urban Status = Predefined by DSHS
18. Trauma Service Area (A Trauma Service Area which represent geographic area of the State of Texas consisting of at least three (3) counties) = Predefined by DSHS