

Wisconsin Trauma Registry  
Updates and Statistics

In support of the Wisconsin  
Trauma Care Program

In this edition:



REGISTRY UPDATES



IMPROVEMENT  
INITIATIVES



EDUCATIONAL  
OPPORTUNITIES



OUTSTANDING  
FACILITIES



2017 IN REVIEW



QUARTER 4, 2017 DATA



PEDIATRIC TRAUMA

**Department of Health Services**

**Division of Public Health**

Office of Health Informatics

[www.dhs.wisconsin.gov/trauma](http://www.dhs.wisconsin.gov/trauma)

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P-02087-17 (06/2018)

## New Reports Available

Three new reports are available in the “Data Feedback Reports” folder to track the percent of trauma records submitted to the Wisconsin trauma registry within 60 days of patient discharge:

- Aggregate Percent of Records Completed Within 60 Days of Discharge
- Percent of Records Completed within 60 Days of Patient Discharge by Month
- Detailed Submission Timeliness Report

A report titled “Pre-Review Questionnaire Figure 6: Trauma Numbers” has been created to complete the required data section of the pre-review questionnaire. This report is available under the “Site Review Reports” folder.

The following sub reports have been added to the Data Feedback Report:

- Open cases over or near 60 day timeliness threshold
- Cases with low validity created > 1 month ago

## Frequently Asked Questions

### How do I make sure my data are ready for my upcoming site review?

Site reviews can be a hectic event. Help relieve stress from your review preparation by checking your data quality early and often! Review the results of the following reports three months, one month, and one week prior to your review to identify potential gaps in data entry: (1) Data Feedback Report, (2) Audit Filters Report, (3) Demographics Report, and (4) Validity Error Tracking. Consider contacting the trauma registry data manager one month prior to your site visit to discuss your facility’s trauma registry data quality.

### Who can reset my account?

Any user at your facility with hospital administrator permissions can reset user accounts. Trauma registry accounts will lock after 10 unsuccessful login attempts or 100 consecutive days of account inactivity.

### Where do I find the changes that were made in the software’s monthly update?

Release notes include information on software updates and fixes to the patient registry product and are available within ImageTrend University. Certain updates, including the addition of new data elements, are made at the discretion of the trauma registry data manager.

## 2019 Inclusion Criteria Update

Beginning with trauma patients discharged in 2019, the Wisconsin trauma registry will require same-level falls resulting in isolated distal extremity and isolated hip fractures. Patients with a leveled trauma team activation will still automatically meet Wisconsin’s inclusion criteria. If there is not a leveled trauma team activation, patients sustaining an injury from a same-level fall must still be admitted, transferred via EMS into or out of your hospital, or die from their injuries to meet the inclusion criteria. This change was discussed with and supported by the Wisconsin State Trauma Advisory Council (STAC).



## Registry Improvement Initiative: Timeliness

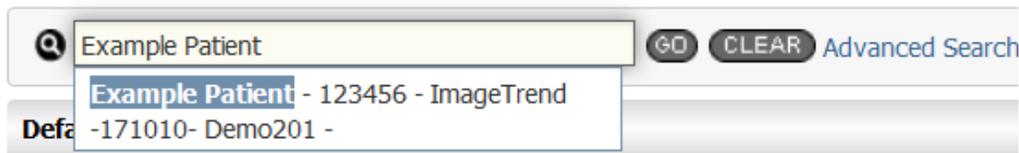
Wisconsin's path to 80% of records submitted within 60 days of discharge—Orange Book Standard

Wisconsin trauma care facilities submitted 49% of trauma records within 60 days of patient discharge for quarter 4. This is a 1% improvement from quarter 3 (48%). The 2018 goal is to reach 70% of trauma records submitted within 60 days of patient discharge. The 80% threshold should be achieved by 2020. This value only includes records marked as completed.

Description	Projected Annual Improvements			
	Current	2018	2019	2020
Percentage of cases completed within 60 days of discharge.	49% (+1%)	70%	75%	80%

### Prevent duplicate entries

If multiple staff are responsible for data entry, be sure to communicate and prevent time spent on duplicate records! Enter the patient's name or medical record number into the search bar on the incidents tab to see if there is an existing record for this injury event prior to beginning data entry. This takes only a few seconds and can save hours of work.



A screenshot of a search interface. At the top, there is a search bar containing the text "Example Patient". To the right of the search bar are buttons for "GO", "CLEAR", and "Advanced Search". Below the search bar, a dropdown menu is open, displaying search results. The first result is "Example Patient - 123456 - ImageTrend". The second result is partially visible and reads "Defa -171010- Demo201 -".

## EDUCATIONAL OPPORTUNITIES

### Recorded Webinar Available

The basic introduction to the Wisconsin trauma registry software has been recorded and is now available for viewing on the DHS Trauma webpage. This training is located under the training and resources tab and can be viewed at any time.

<https://connect.wisconsin.gov/p83djl0wadx/>



## Overview

In recognition of outstanding data quality, we are highlighting trauma care centers that have demonstrated an exceptional dedication to submitting quality data to the Wisconsin trauma registry. Here we will look at the completeness and timeliness of trauma record submission as well as the facilities with the highest compliance with the STAC Data Management Subcommittee’s trauma record quality definition.

## Data Completeness Recognition

**Platinum:** Average record validity score of 99.5 to 100

Burnett Medical Center  
HSHS St. Joseph’s Hospital  
Mayo Clinic Health System—Osseo



**Gold:** Average record validity score of 99 to 99.5

Amery Regional Medical Center  
Ascension NE Wisconsin St. Elizabeth Hospital  
Ascension St. Mary’s Hospital  
Sauk Prairie Healthcare  
SSM Health St. Clare Baraboo



**Silver:** Average record validity score of 98.5 to 99

Aspirus Riverview Hospital  
Aspirus Medford Hospital  
Divine Savior Healthcare  
Froedtert South—Kenosha Medical Center Campus  
Hayward Area Memorial Hospital

Holy Family Memorial Medical Center  
Lakeview Medical Center  
St. Agnes Hospital  
St. Joseph’s Hospital—West Bend



**Bronze:** Average record validity score of 98 to 98.5

Ascension Calumet Hospital  
Aurora West Allis Medical Center  
Bay Area Medical Center  
Beloit Memorial Hospital  
Black River Memorial Hospital  
Flambeau Hospital  
Froedtert South—St. Catherine’s Hospital  
Mayo Clinic Health System—Red Cedar

Mile Bluff Medical Center  
Ascension Sacred Heart Hospital  
River Falls Area Hospital  
Rusk County Memorial Hospital  
SSM Health St. Mary’s Janesville Hospital  
SSM Health St. Mary’s Sun Prairie Emergency Center  
Ascension SE Wisconsin Hospital



	<b>CURRENT</b>
<b>46</b>	Average minutes to complete a case
<b>97.2</b> <small>(+0.7%)</small>	Average validity score
	<b>2018 GOAL</b>
<b>45</b>	Average minutes to complete a case
<b>98.0</b>	Average validity score





## Outstanding Overall Data Quality

The following facilities submitted the highest percentage of trauma records found to meet Wisconsin-specific and/or national trauma data standard inclusion criteria, were submitted and marked as complete within 60 days of patient discharge, and have achieved a record completeness of 90% or greater.

Ascension Our Lady of Victory Hospital  
Aurora Medical Center Washington County  
Memorial Hospital of Lafayette County

## Submission Timeliness Recognition

**Platinum:** 98% + of records closed within 60 days of discharge

SSM Health St. Clare Baraboo  
HSHS St. Joseph's Hospital  
Mayo Clinic Health System—Osseo



**Gold:** 95 to 97% of records closed within 60 days of discharge

Aurora Medical Center Washington County  
Bay Area Medical Center  
Upland Hills Health



**Silver:** 90 to 95% of records closed within 60 days of discharge

Ascension Our Lady of Victory Hospital  
Memorial Medical Center—Neillsville  
Ascension Sacred Heart Hospital  
St. Croix Regional Medical Center  
Thedacare Medical Center—Wild Rose



**Bronze:** 85 to 90% of records closed within 60 days of discharge

Ascension Saint Michael's Hospital of Stevens Point  
Divine Savior Healthcare  
Gundersen Moundview Hospital and Clinics  
SSM Health St. Mary's Janesville Hospital  
SSM Health St. Mary's Sun Prairie Emergency Center



## Submission Deadlines

### Quarter 1

**Due:** May 31, 2018

**Discharged:** January 1 through March 31

### Quarter 2

**Due:** August 31, 2018

**Discharged:** April 1 through June 30

### Quarter 3

**Due:** November 30, 2018

**Discharged:** July 1 through September 30

### Quarter 4

**Due:** February 28, 2019

**Discharged:** October 1 through December 31

View the Wisconsin trauma registry submission schedule at:

<https://www.dhs.wisconsin.gov/trauma/traumaregistrysubmissionsschedule.pdf>





# QUARTER 4, 2017 DATA



Analyses include patients discharged between October 1 and December 31, 2017.

## Patient Sex



54%



46%



## SUMMARY



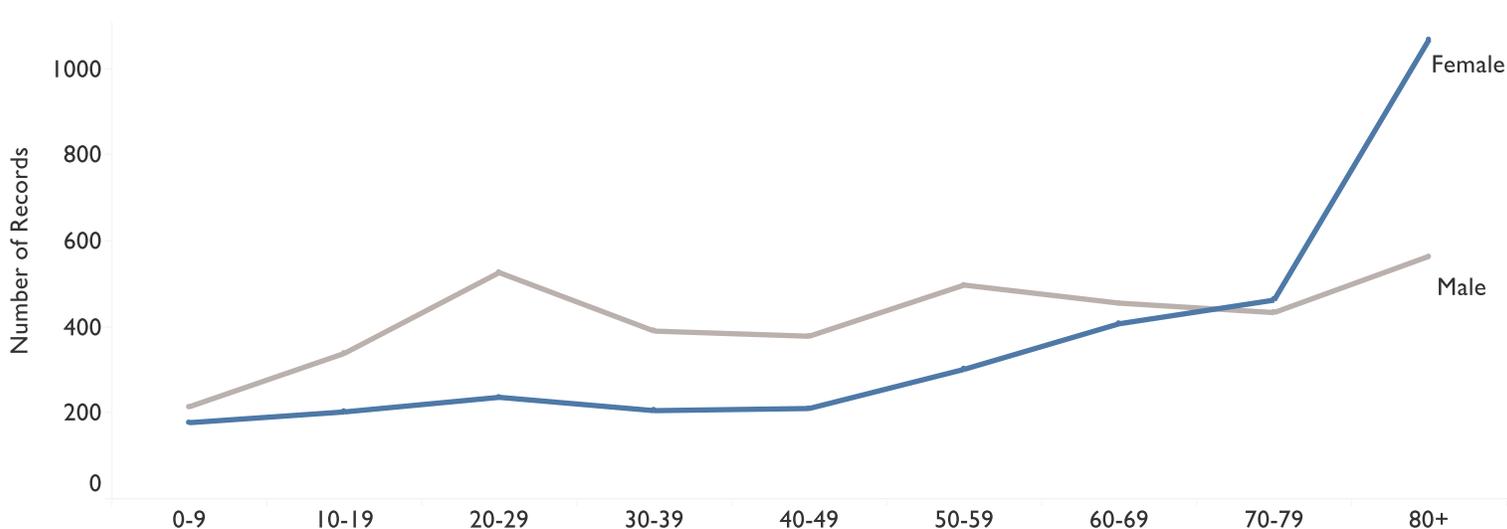
**7,748** TRAUMA RECORDS

**7,070** INJURY EVENTS

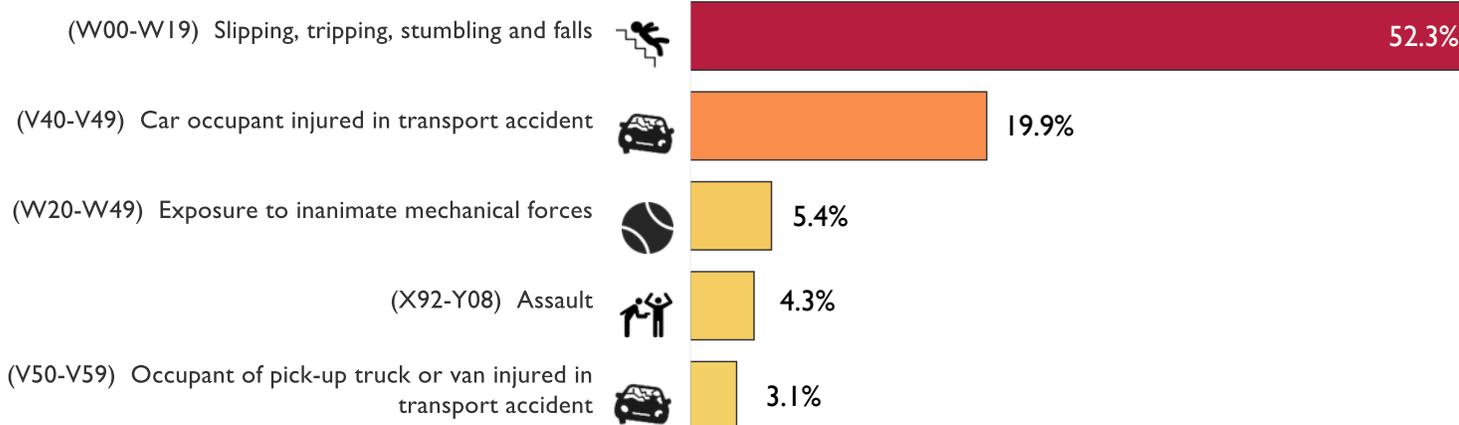
All data for this report were exported on April 17, 2018

An injury event is unique to each reported injury incident. There are certain cases where a single patient sustains more than one traumatic mechanism in a single day. Thus, this patient has two injury events.

## Volume of Patients by Sex and Age Range



## Top Five Injury Mechanisms





# 2017 IN REVIEW



Analyses include patients discharged between January 1 and December 31, 2017.

## Patient Sex



56%



44%



## SUMMARY



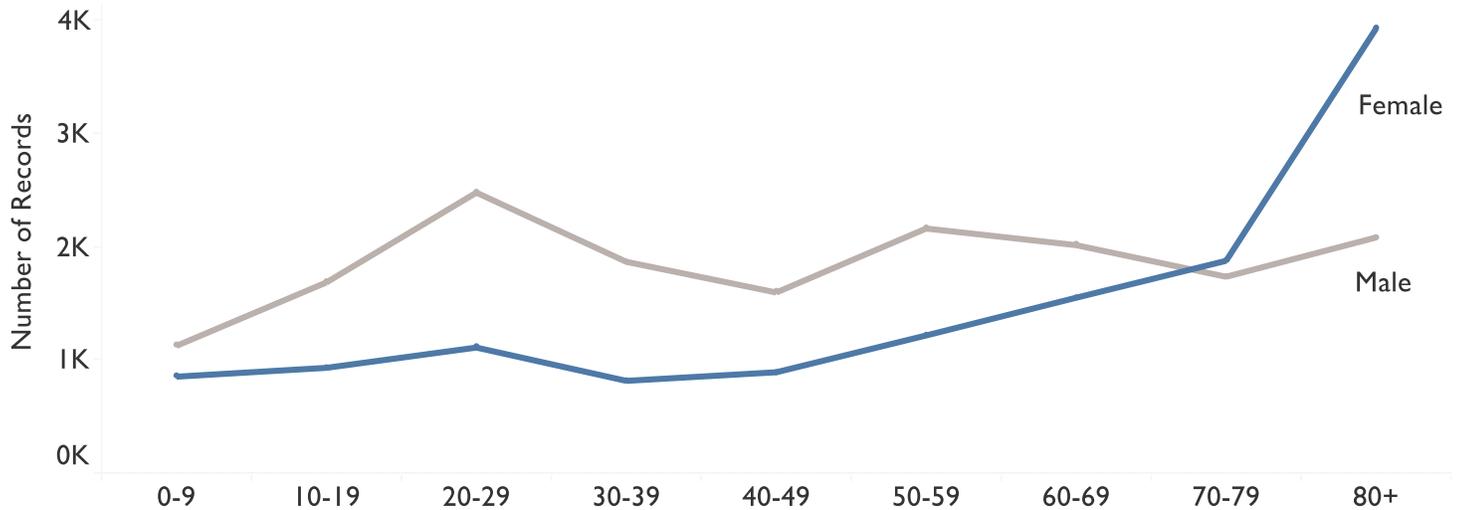
**32,874** TRAUMA RECORDS

**29,899** INJURY EVENTS

All data for this report were exported on April 17, 2018

An injury event is unique to each reported injury incident. There are certain cases where a single patient sustains more than one traumatic mechanism in a single day. Thus, this patient has two injury events.

## Volume of Patients by Sex and Age Range



## Top Five Injury Mechanisms

(W00-W19) Slipping, tripping, stumbling and falls



48.9%

(V40-V49) Car occupant injured in transport accident



16.9%

(W20-W49) Exposure to inanimate mechanical forces



5.5%

(X92-Y08) Assault



4.8%

(V80-V89) Other land transport accidents



4.5%



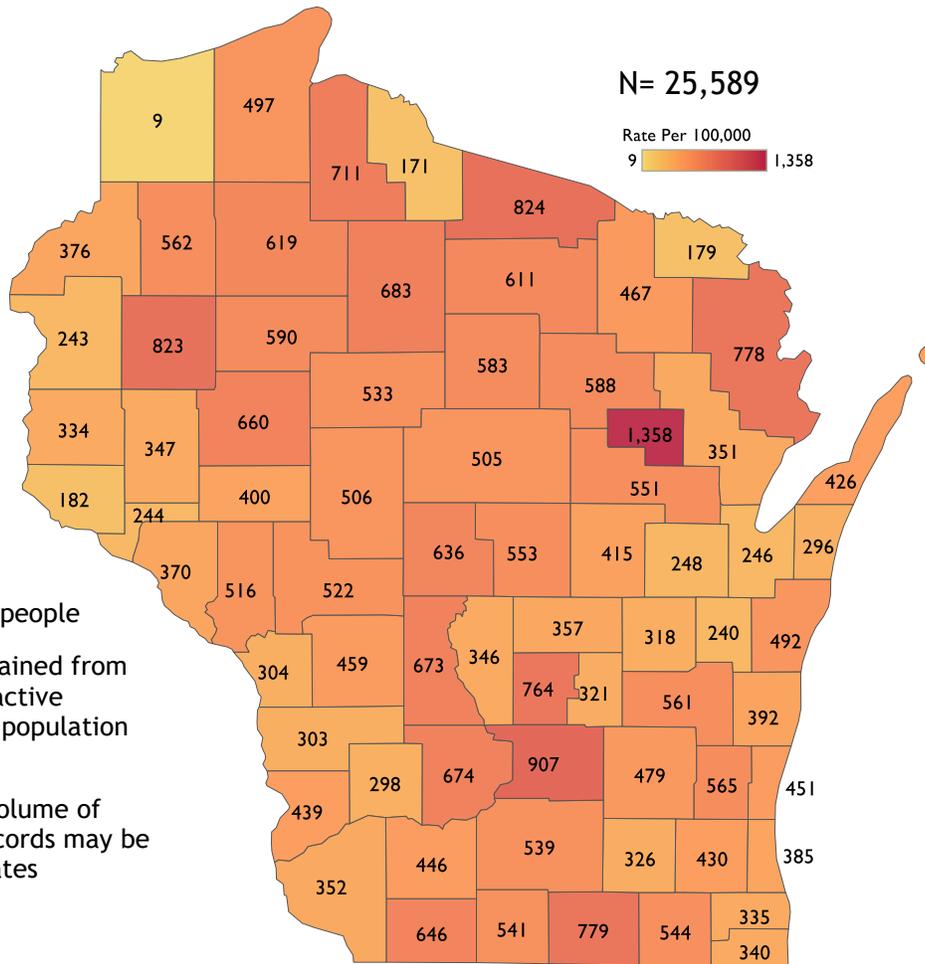


# 2017 IN REVIEW



## Rate of Traumatic Injuries per 100,000 by Incident Location County

Excludes missing, out of state, and invalid injury locations

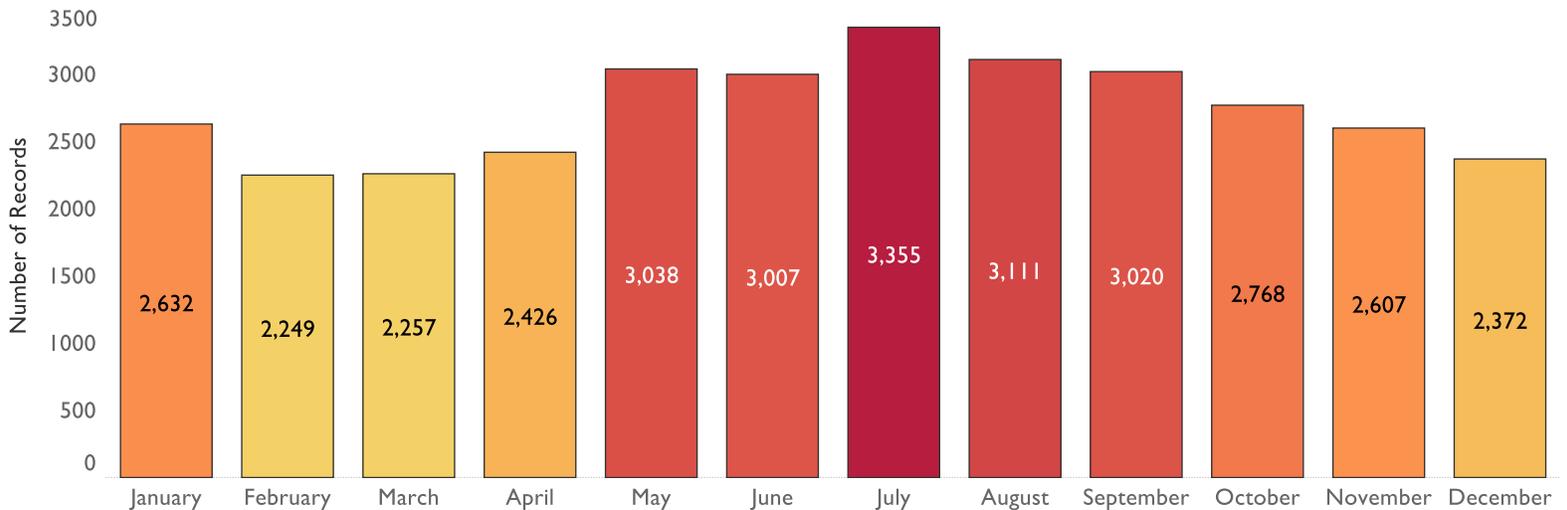


- Rate is per 100,000 people
- Population data obtained from the Wisconsin Interactive Statistics on Health population module
- Counties with low volume of reported trauma records may be at risk of inflated rates

## Patient Volume by Month\*

Updated volume of trauma record submissions for quarters 1, 2, and 3.

Consider dedicating additional time or personnel for data entry for patients injured in July to improve submission timeliness.



\*Excludes records with missing or invalid emergency department admission dates





# 2017 in Review

## Pediatric Trauma Patients



Analyses include patients discharged between January 1 and December 31, 2017.

### OVERVIEW

In the context of this report, pediatric patients are ages 17 and under.

### SUMMARY

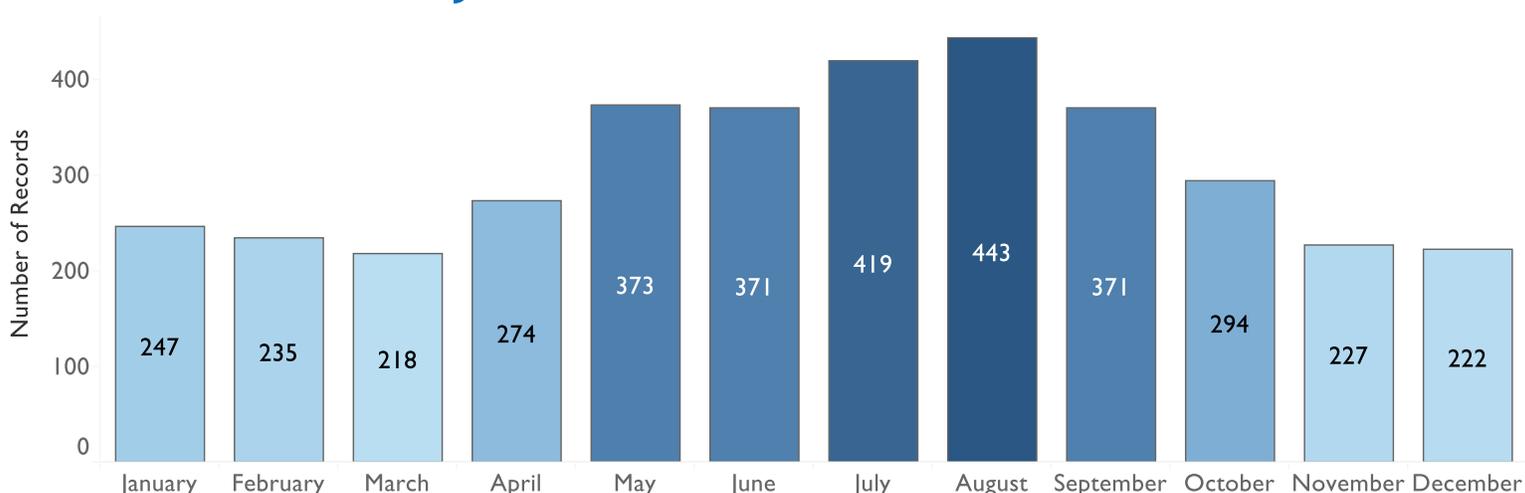
**4,178** TRAUMA RECORDS

**3,701** INJURY EVENTS

All data for this report were exported on April 17, 2018

An injury event is unique to each reported injury incident. There are certain cases where a single patient sustains more than one traumatic mechanism in a single day. Thus, this patient has two injury events.

### Patient Volume by Month\*



\* Excludes records with missing or invalid emergency department admission dates

### Most Common Injury Categories by Age Range\*

ICD-10 Injury Category	0-4	5-9	10-14	15-17
Slipping, tripping, stumbling and falls	484	372	179	99
Vehicle occupant injured in transport accident	102	103	108	424
Exposure to inanimate & animate mechanical forces	134	106	117	125
Other land transport accidents	24	49	96	89
Pedestrian injured in transport accident	23	59	80	59
Pedal cycle rider injured in transport accident	x	51	89	29
Contact with heat and hot substances	126	27	11	x
Other	95	x	23	22
Assault	37	x	18	76
Motorcycle rider injured in transport accident	x	11	18	27
Exposure to smoke, fire and flames	22	11	x	x
Intentional self-harm	x	x	x	29

\*x indicates a value < 10

