



NONFATAL MOTOR VEHICLE HOSPITALIZATIONS – PASSENGER Unintentional, Motor Vehicle Traffic (MVT)

Background Information/Significance

- To determine nonfatal unintentional injury-related hospitalizations among passengers in motor vehicle traffic crashes
- A “traffic” crash is any vehicle crash occurring on a public highway or street, whereas a “non-traffic” crash occurs entirely in any place other than a public highway or street. Vehicle collisions are assumed to have occurred on a public road unless another place is specified, except for incidents involving only off-road motor vehicles, which are classified as “non-traffic” unless the contrary is stated.¹
- This indicator includes “passengers” and “persons on the outside” of a motor vehicle

Numerator:

- Hospitalizations from the injury hospitalization subset² with any of the following ICD-10-CM external cause of injury codes in any field
- Exclude in-facility deaths

Codes* for passenger or person on outside of motor vehicle injured in unintentional traffic crash

Unintentional MV-Traffic Passenger Codes	Description
V205, V215, V225, V235, V245, V255, V265, V275, V285, V2950, V2959	Passenger of motorcycle injured in traffic crash
V306, V316, V326, V336, V346, V356, V366, V376, V386, V3950, V3959	Passenger or person on outside of three-wheeled motor vehicle injured in traffic crash
V307, V317, V327, V337, V347, V357, V367, V377, V387	
V406, V416, V426, V4361-V4364, V446, V456, V466, V476, V486 (V4761, V4762)**	Passenger or person on outside of car injured in traffic crash
V407, V417, V427, V4371-V4374, V447, V457, V467, V477, V487	
V4950, V4959	Passenger of unspecified vehicle type injured in traffic crash
V506, V516, V526, V536, V546, V556, V566, V576, V586, V5950, V5959	Passenger or person on outside of pick-up truck or van injured in traffic crash
V507, V517, V527, V537, V547, V557, V567, V577, V587	
V606, V616, V626, V636, V646, V656, V666, V676, V686, V6950, V6959	Passenger or person on outside of heavy transport vehicle injured in traffic crash
V607, V617, V627, V637, V647, V657, V667, V677, V687	
V706, V716, V726, V736, V746, V756, V766, V776, V786, V7950, V7959	Passenger or person on outside of a bus injured in traffic crash
V707, V717, V727, V737, V747, V757, V767, V777, V787	
V831, V841, V851, V8611-V8616, V8619	Passenger or person on outside of a special industrial vehicle, special agricultural vehicle, special construction vehicle, ambulance, snowmobile, dune buggy, military vehicle, 3- or 4-wheeled ATV, dirt bike/moto cross bike, or other special all-terrain vehicle injured in traffic crash
V832, V842, V852, V8621-V8626, V8629	

*7th character of A or missing (reflects initial encounter, active treatment)

**Codes V4761, V4762 were retired on October 1, 2016 and replaced with V476.

¹ <https://apps.who.int/classifications/apps/icd/icd10online2004/defs.htm>

² <https://www.cdc.gov/nchs/data/nhsr/nhsr125-508.pdf>

**Denominator:**

- Midyear population for the calendar year under surveillance obtained from the U.S. Census Bureau or suitable alternative.

Measures of frequency:

- Annual number of hospitalizations, by age group and sex.
- Annual age-adjusted rates, overall and by sex, standardized by the direct method to the year 2000 standard U.S. population

Period for case definition:

- Calendar year based on date of hospital discharge.

Indicator notes:

- The Injury Surveillance Indicators for use with hospitalization data are restricted to cases where the principal diagnosis is an injury code.
- Refer to the CSTE Injury Surveillance Toolkit – [Injury Indicators](#) Page for more information

Limitations of data source:

- Injuries that result in hospitalization only represent a portion of the overall burden of injury. These injuries should be considered in the context of both less- and more-severe injuries.
- The accuracy of indicators based on codes found in hospital discharge data are limited by the completeness and quality of coding.