



NONFATAL MOTOR VEHICLE HOSPITALIZATIONS – PASSENGER Unintentional, Motor Vehicle Non-Traffic (MVN)

Background Information/Significance

- To determine nonfatal unintentional injury-related hospitalizations among drivers in motor vehicle traffic crashes
- Transport incidents involving motor vehicles are considered “traffic” incidents if they occur on a public highway or street, whereas a “non-traffic” incident occurs entirely in any place other than a public highway or street. Transport incidents are assumed to have occurred on a public road unless another place is specified, except for those involving only off-road motor vehicles, which are classified as “non-traffic” unless the contrary is stated. The terms “collision” and “non-collision” refer to the type of event causing the transport incident. “Collision” events describe a motor vehicle striking or being struck by another vehicle, person or object. “Non-collision” events overturns, jackknifes, fire/explosion, running off road, separation of units, downhill runaways or cargo loss.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 non-traffic crash

Unintentional MV-Non-Traffic Passenger Codes	Description
V201, V211, V221, V231, V241, V251, V261, V271, V281, V2910, V2919	Passenger of motorcycle injured in non-traffic crash
V301, V311, V321, V331, V341, V351, V361, V371, V381, V3910, V3919	Passenger or person on outside of three-wheeled motor vehicle injured in non-traffic crash injured in non-traffic crash
V302, V312, V322, V332, V342, V352, V362, V372, V382	
V401, V411, V421, V4311-V4314, V441, V451, V461, V471, V481 (V4711, V4712)**	Car passenger or person on outside of car injured in non-traffic crash
V402, V412, V422, V4321- V4324, V442, V452, V462, V472, V482	
V4910, V4919	Passenger of unspecified vehicle type
V501, V511, V521, V531, V541, V551, V561, V571, V581, V5910, V5919	Passenger or person on outside of pick-up truck or van injured in non-traffic crash
V502, V512, V522, V532, V542, V552, V562, V572, V582	
V601, V611, V621, V631, V641, V651, V661, V671, V681, V6910, V6919	Passenger or person on outside of heavy transport vehicle injured in non-traffic crash
V602, V612, V622, V632, V642, V652, V662, V672, V682	
V701, V711, V721, V731, V741, V751, V761, V771, V781, V7910, V7919	Passenger or person on outside of a bus injured in non-traffic crash
V702, V712, V722, V732, V742, V752, V762, V772, V782	
V836, V846, V856, V8661, V8662, V8663, V8664, V8665, V8666, V8669***	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 non-traffic crash
V837, V847, V857, V8671, V8672, V8673, V8674, V8675, V8676, V8679***	

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

**Codes V4711, V4712 were retired on October 1, 2016 and replaced with V471.

***Codes in RED are part of the “Other Land Transport” row of the [ICD-10-CM External Cause of Injury Framework](#), but reference motor vehicle passengers injured in non-traffic crashes

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.