



Trends in Pedestrian Injuries and Fatalities

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Putting injuries into perspective

- Injuries are the leading cause of death among Canadians aged 1-44; 4th among all ages; 1 child dies every 9 hours from injury in Canada
- Cost Canadian society a staggering \$27 billion annually
- Transport injuries (Parachute's *The Cost of Injury in Canada*, 2015):
 - 2nd most common cause of unintentional injury death after falls
 - Cost > \$4 billion annually (direct/indirect costs)
 - Pedestrian injury costs \$458 million annually
- 270,000 pedestrian fatalities globally each year; pedestrians account for 22% of 1.24 million road fatalities (WHO)
- In Canada in 2013, there were 277 Motor Vehicle Traffic pedestrian fatalities (Statistics Canada's Vital Statistics-Deaths data)

Pedestrian safety innovations, then and now

“Man Catcher” early 1900s



A “MAN-CATCHER.”

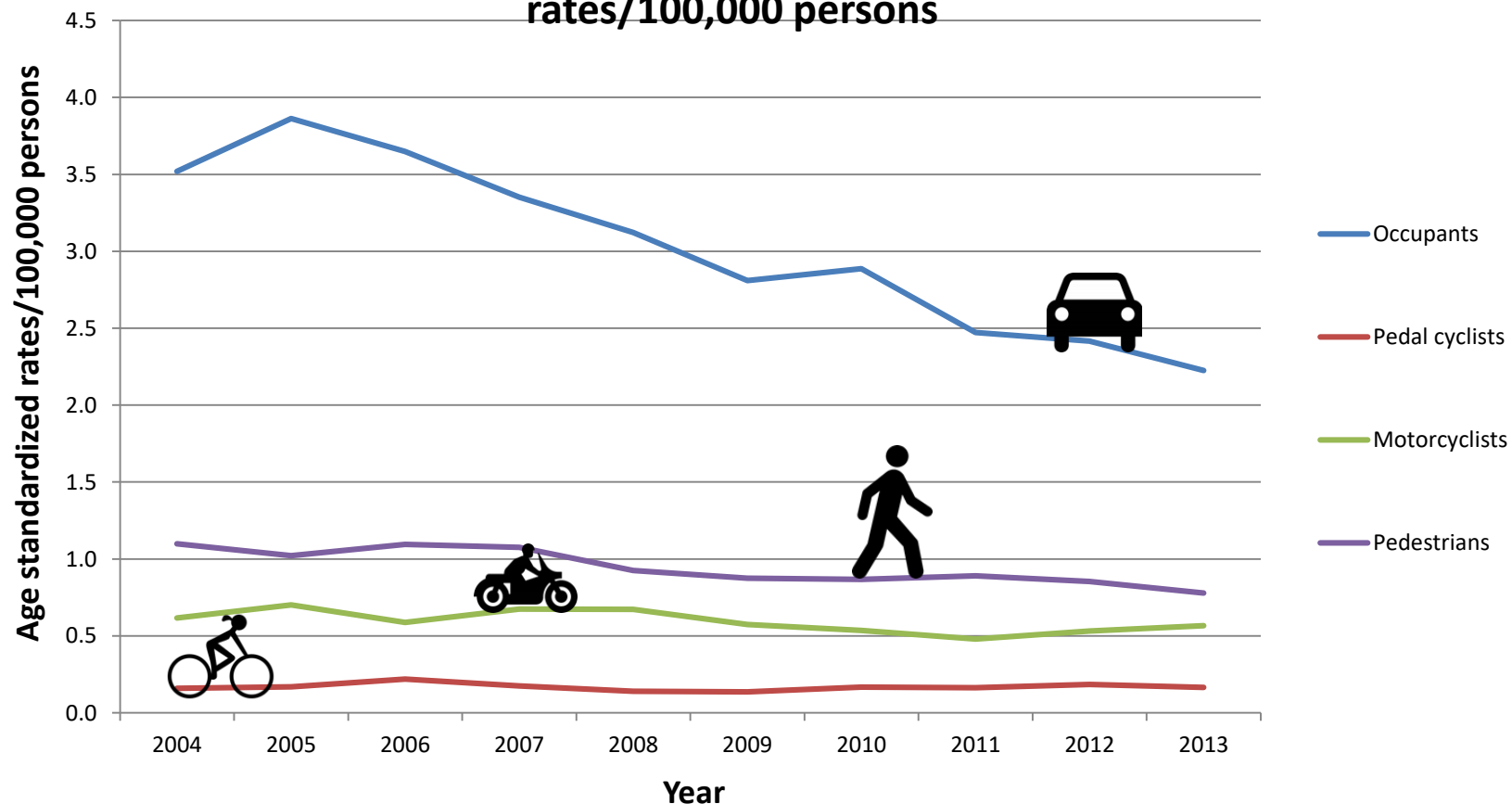
This safety device consists of three rollers attached to the radiator of the vehicle. Directly the rollers touch an obstacle, they automatically drop to the ground and push it away.

Phone lanes, present day



MVT mortality 10 year trend

Motor vehicle traffic-related mortality in Canada, by road user class, 2004-2013, both sexes combined, all ages, age standardized* rates/100,000 persons

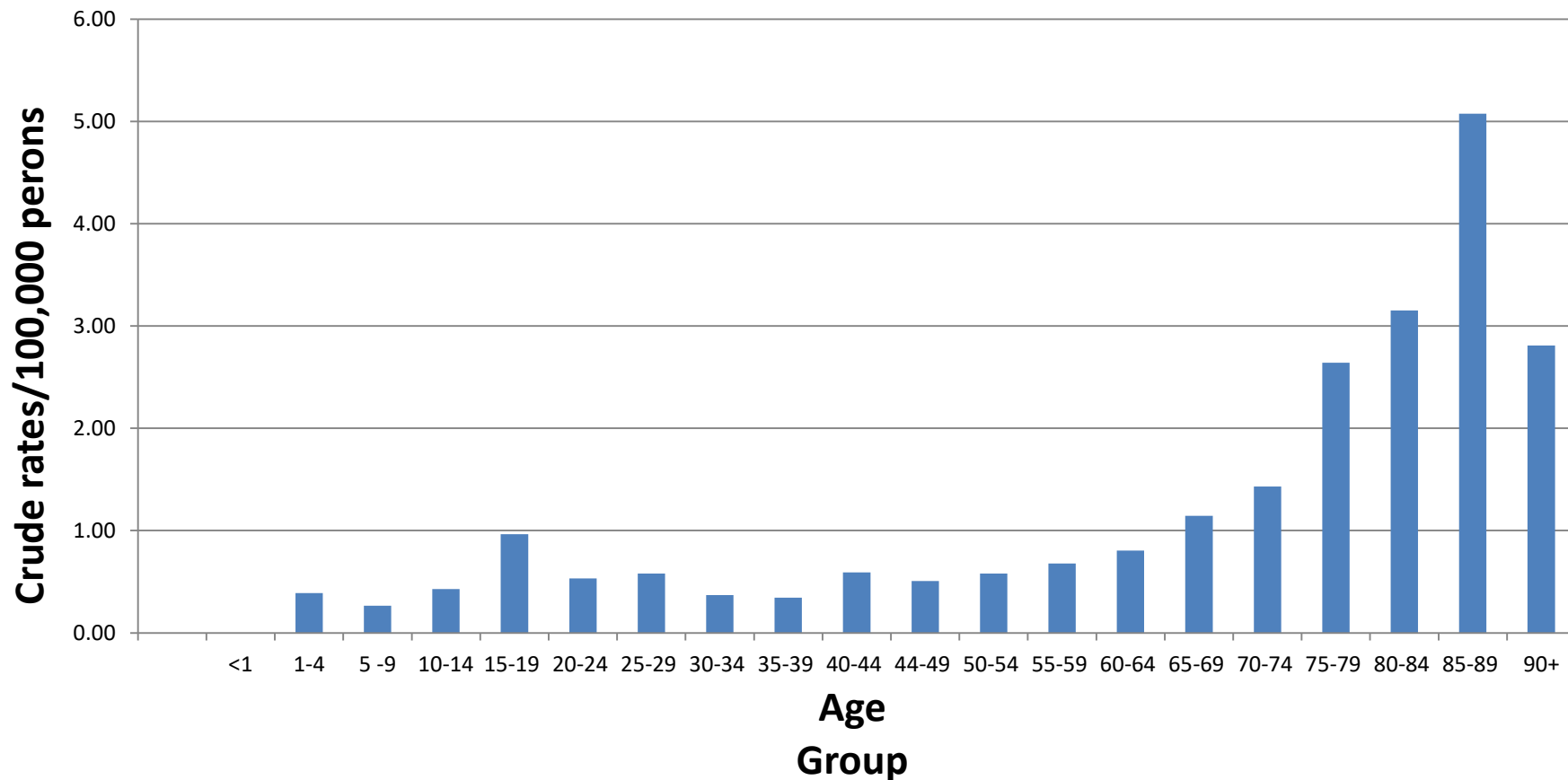


*Standard population 2011

Source: Public Health Agency of Canada analysis of Statistics Canada's mortality data

Age-specific pedestrian mortality rates 2013

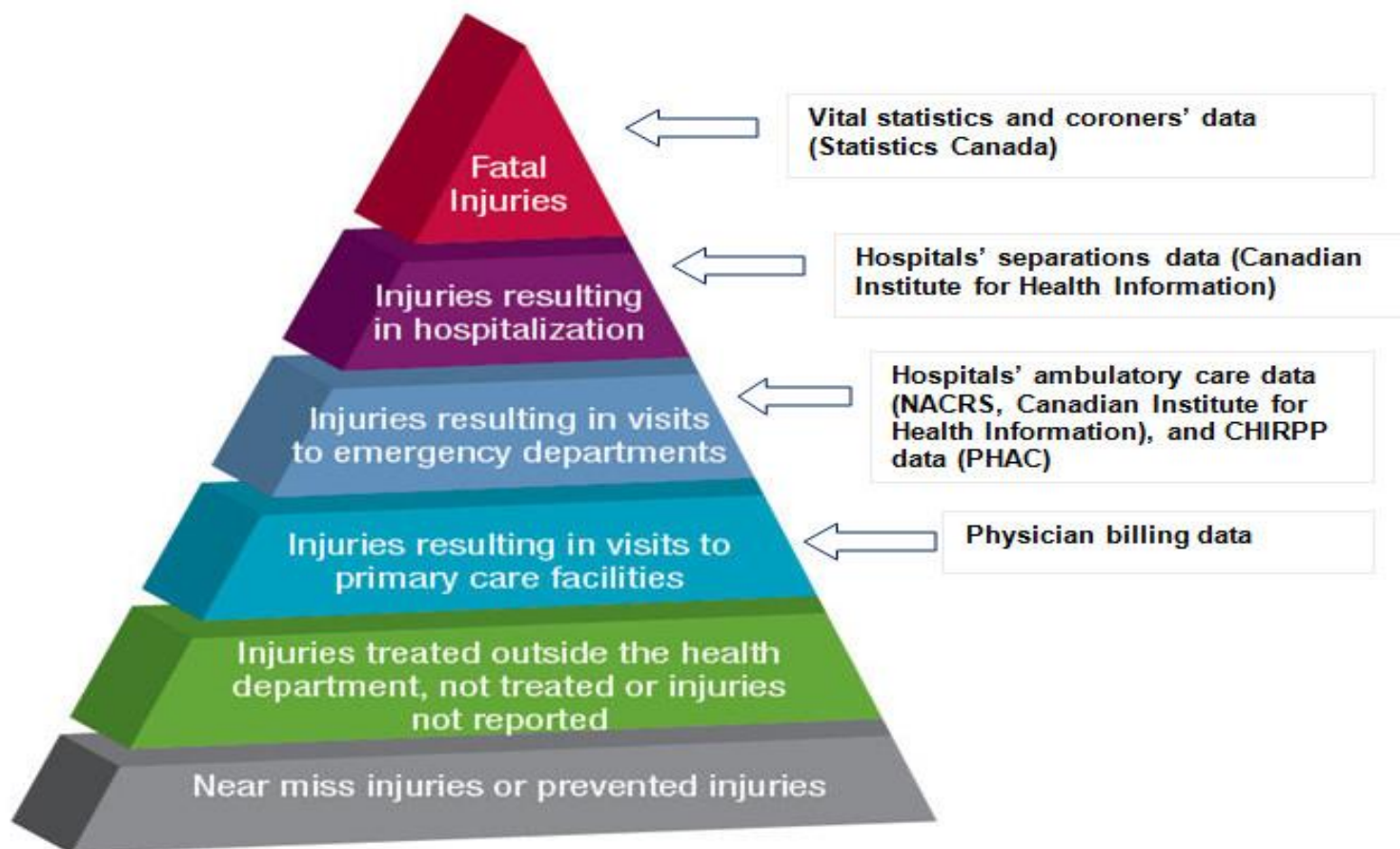
Motor vehicle traffic-related mortality among pedestrians in Canada, 2013, both sexes combined, by age group, crude rates/100,000 persons



Source: Public Health Agency of Canada analysis of Statistics Canada's mortality data

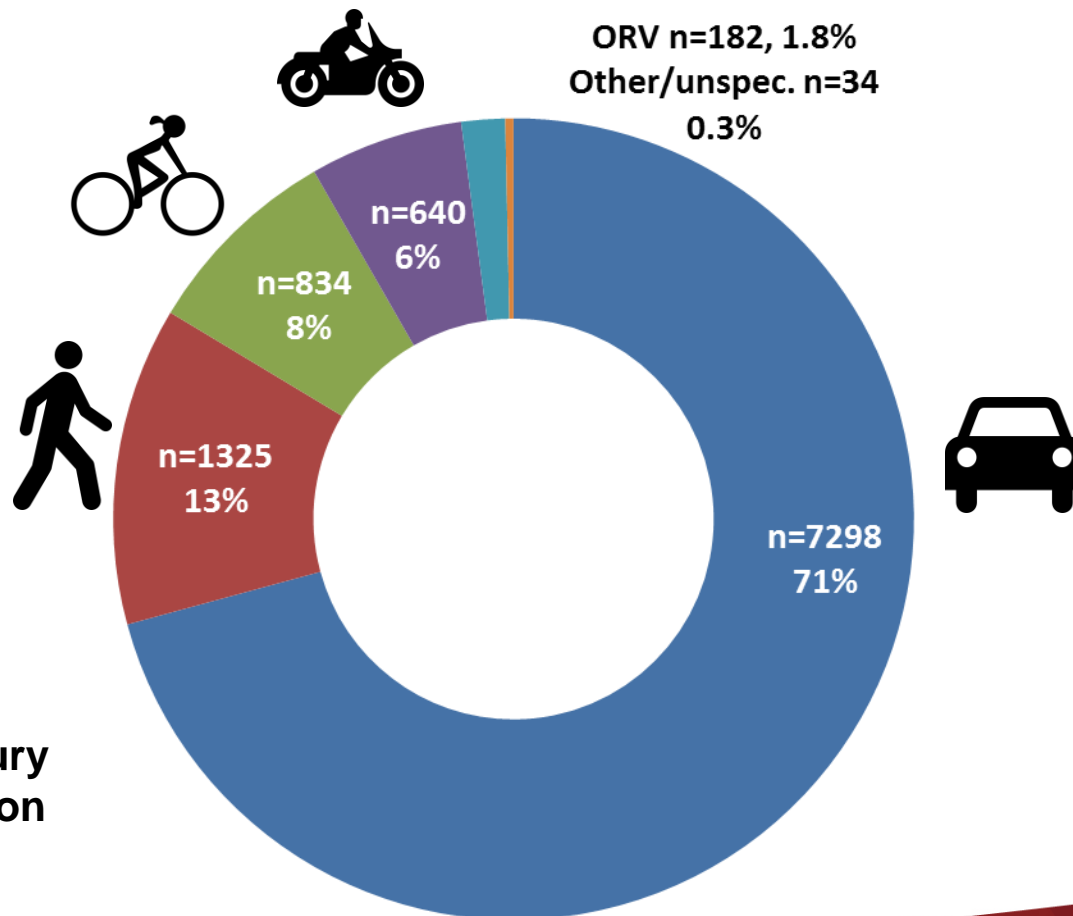
For every death, many more non-fatal injuries

Injury Pyramid



Emergency dept. visits for MVT related injuries, Road user class

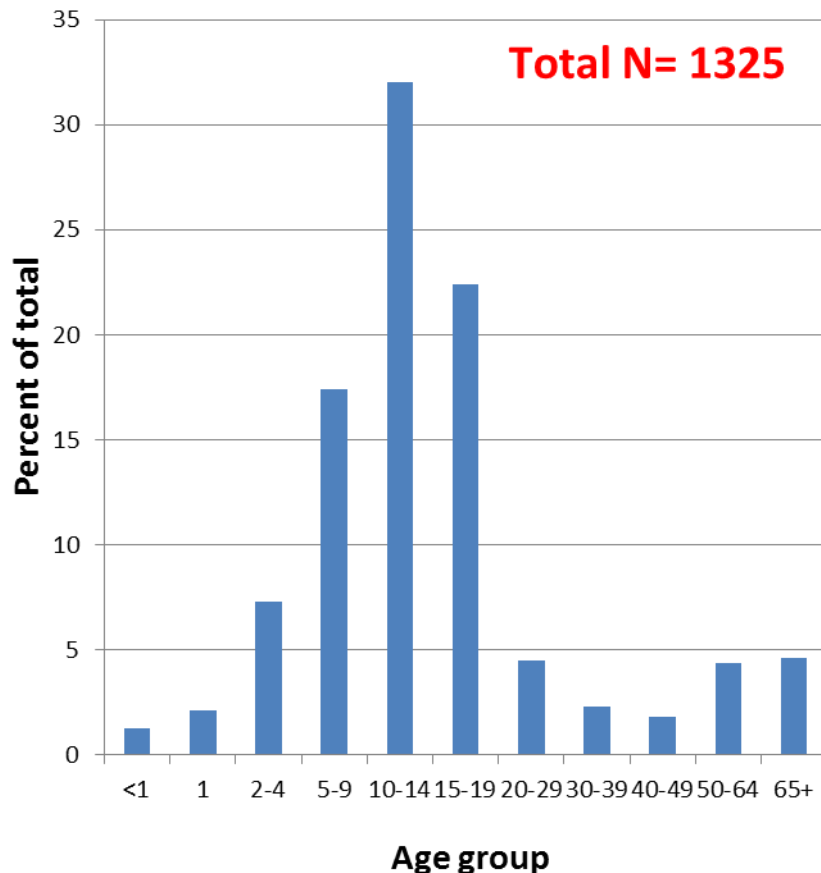
Percent frequency distribution of motor vehicle-related injury cases by road user class, eCHIRPP 2012-2014, all ages



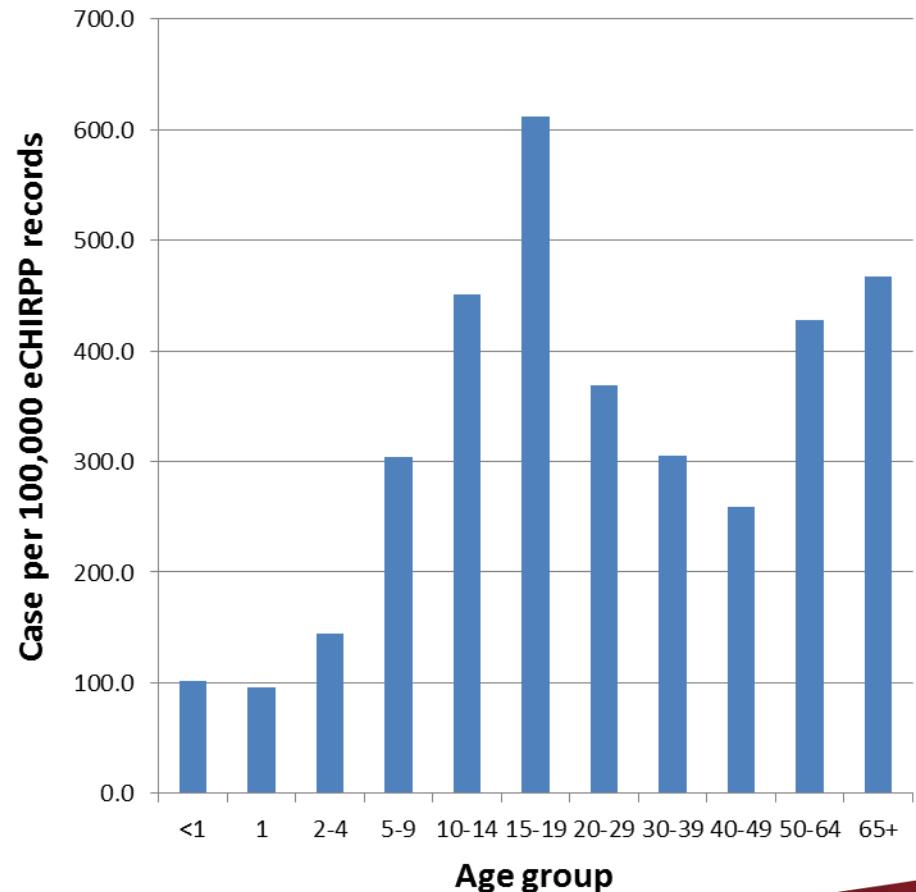
eCHIRPP = electronic
Canadian Hospitals Injury
Reporting and Prevention
Program

Emergency dept. visits for MVT related injuries, Pedestrians' age

Age group distribution of MVT pedestrian injury cases, % of total, eCHIRPP 2012-2014



Normalized age group distribution of MVT pedestrian injury cases, per 100,000 records, eCHIRPP 2012-2014

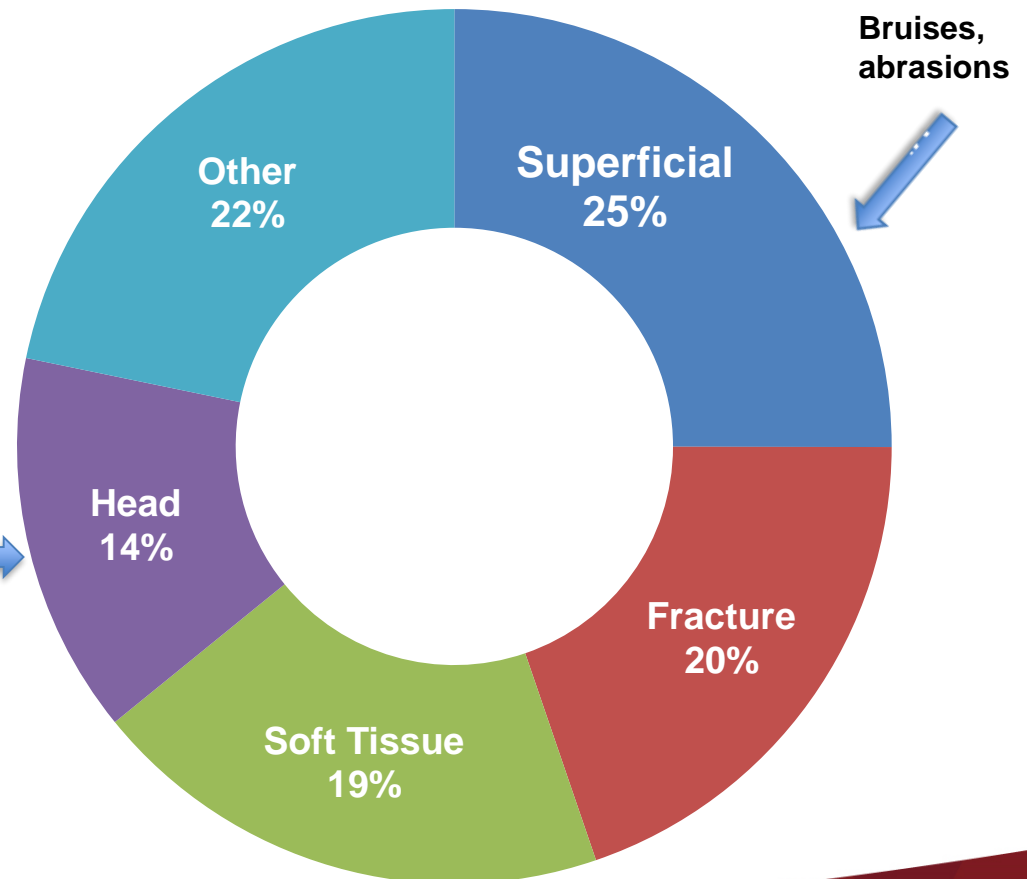


Emergency dept. visits for MVT related injuries, Pedestrians' injury type

Percent frequency distribution, MVT pedestrian injuries,
eCHIRPP 2012-2014, all ages

n=2114 injuries, among 1325 pedestrians. Calculated by summing injuries reported across all three Nature of Injury fields.

Minor head injury,
concussion, and
intra-cranial



In summary...

- Injuries are costly to Canadian society! Pedestrian injuries cost \$458 million annually (direct/indirect costs); conservative estimate
- 277 pedestrian fatalities from Motor Vehicle Traffic in Canada, 2013
- Seeing more work on the influence of distraction, built environments, and urban change on pedestrian safety
- Seniors are among the most vulnerable pedestrians; reduced mobility, vision, hearing, and reaction time
- Pedestrian fatality rates have declined in the last 10 years in Canada

Thank you...

- To the CARSP 2017 organizing committee for the invitation to present
- To Statistics Canada for publicly accessible deaths data

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