



# Motor Vehicle- related Injuries of Alberta's Children (0 to 4 years)

INJURY PREVENTION CENTRE

December 2022

# MOTOR VEHICLE-RELATED INJURIES OF ALBERTA'S CHILDREN (0 TO 4 YEARS)

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## **SUGGESTED CITATION**

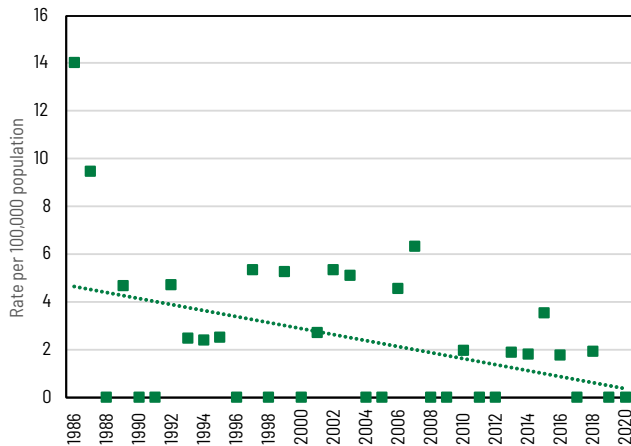
*Motor Vehicle-related Injuries of Alberta's Children (0 to 4 years). Edmonton, AB: Injury Prevention Centre, 2022*

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# MOTOR VEHICLE-RELATED INJURIES OF ALBERTA'S CHILDREN (0 TO 4 YEARS)

**Motor vehicle-related events include:** traffic, non-traffic, and boarding incident on / involving pedestrians, motorcycles, cars / pickup trucks / vans, heavy transport vehicles, buses, other land transport vehicles. Excludes: off-road vehicle which are reported separately.

## INFANTS (less than 1 year of age)



### Deaths 1986-2019

Over the 34-year period, there was 1 motor vehicle-related death of an infant (< 1 year) each year.

During the first 17 years (1990-2002), there was an average of 1.4 motor vehicle-related deaths each year. During the following 17 years (2003-2019), there were 0.8 deaths each year.

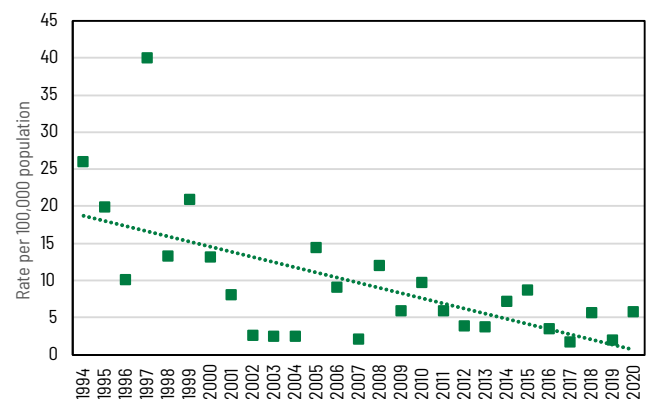
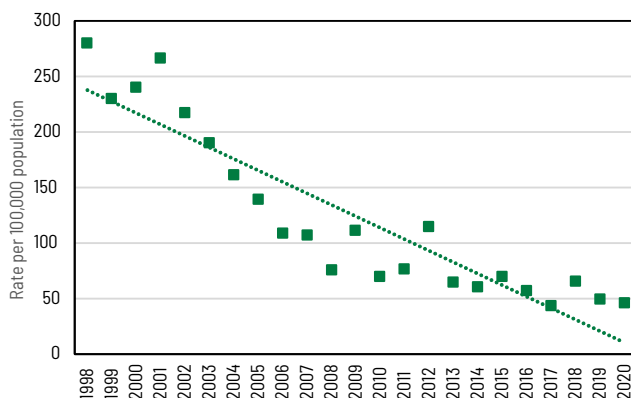
As there were many years in which there were zero deaths, calculating the average annual percent change of the death rate was not performed.

### Hospital Admissions 1994-2020

Over the 27-year period, there were 4 motor vehicle-related hospital admissions of an infant (< 1 year) each year.

During the first 13 years (1994-2006), there was an average of 5.5 motor vehicle-related admissions each year. During the following 14 years (2007-2020), there were 2.9 admissions each year.

Over the 27-year period, the motor vehicle-related hospital admission rate had a statistically significant decrease, with an average of 7.1% each year.



### Emergency Department Visits 1986-2019

Over the 23-year period, there were 54 motor vehicle-related emergency department visits of an infant (< 1 year) each year.

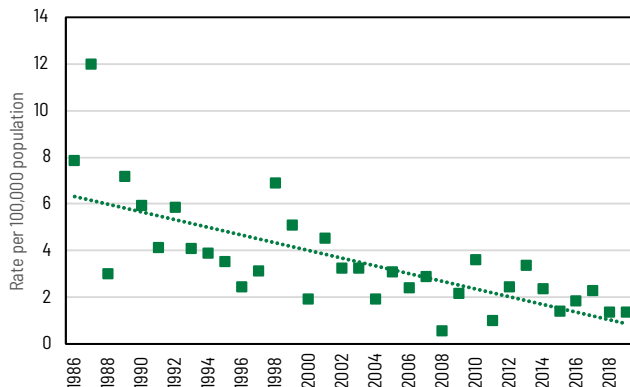
During the first 12 years (1998-2009), there was an average of 71.6 motor vehicle-related emergency department visits each year. During the following 11 years (2010-2020), there were 35 emergency department visits each year.

Over the 23-year period the motor vehicle-related emergency department visit rate had a statistically significant decrease, with an average of 8.3% each year.

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## CHILDREN (1-4 years of age)



### Deaths 1986-2019

Over the 34-year period, there were 6 motor vehicle-related deaths of a child (1-4 years) each year.

During the first 17 years (1990-2002), there was an average of 8.2 motor vehicle-related deaths each year. During the following 17 years (2003-2019), there were half the number of average deaths, with 4.1 deaths each year.

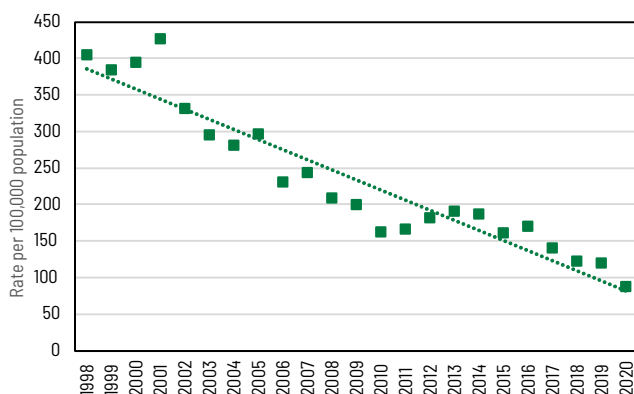
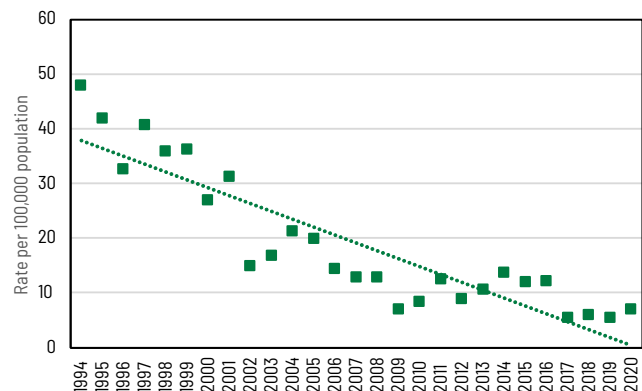
Over the 27-year period, the motor vehicle-related hospital admission rate had a statistically significant decrease, with an average of 4.67% each year.

### Hospital Admissions 1994-2020

Over the 27 years, there were 33 motor vehicle-related hospital admissions of a child (1-4 years) each year.

During the first 13 years (1994-2006), there was an average of 47.5 motor vehicle-related admissions each year. During the following 14 years (2007-2020), there were 19.5 admissions each year.

Over the 27-year period, the motor vehicle-related hospital admission rate had a statistically significant decrease, with an average of 7.5% each year.



### Emergency Department Visits 1986-2019

Over the 23-year period, there were 413 motor vehicle-related emergency department visits of children (1-4 years) each year.

During the first 12 years (1998-2009), there was an average of 494 motor vehicle-related emergency department visits each year. During the following 11 years (2010-2020), there were 324 admissions each year.

Over the 23-year period, the motor vehicle-related emergency department visit rate had a statistically significant decrease, with an average of 3.9% each year.

If you would like additional information about this topic or other types of injuries, please visit <http://injurypreventioncentre.ca> or contact us via phone at **780.492.6019** or email [ipc@ualberta.ca](mailto:ipc@ualberta.ca)



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