

# Hospitalized Hip Fracture Event

Name	Hospitalized Hip Fracture Event
Short/Other Names	Not applicable
	This indicator measures the age-standardized rate of new hip fractures admitted to an acute care hospital, per 100,000 population age 65 and older
Description	A new event is defined as a first-ever hospitalization for hip fracture or a subsequent hip fracture occurring more than 28 days after admission for the previous event in the reference period.  For further details, please see the <a href="#">General Methodology Notes</a> .
Interpretation	Lower rates are desirable.
HSP Framework Dimension	Health System Outputs: Appropriate and effective
Areas of Need	Staying Healthy
Geographic Coverage	All provinces/territories
Reporting Level /Disaggregation	National, Province/Territory, Region, Neighbourhood Income Quintile
Indicator Results	<a href="http://yourhealthsystem.cihi.ca/epub/?language=en">http://yourhealthsystem.cihi.ca/epub/?language=en</a>
Identifying Information	
Name	Hospitalized Hip Fracture Event
Short/Other Names	Not applicable
Indicator Description and Calculation	This indicator measures the age-standardized rate of new hip fractures admitted to an acute care hospital, per 100,000 population age 65 and older
Description	A new event is defined as a first-ever hospitalization for hip fracture or a subsequent hip fracture occurring more than 28 days after admission for the previous event in the reference period.  For further details, please see the <a href="#">General Methodology Notes</a> .  (Total number of new hip fracture events for persons age 65 and older ÷ Total mid-year population age 65 and older) × 100,000 (age-adjusted)
Calculation: Description	Unit of Analysis: Single admission
Calculation: Geographic Assignment	Place of residence
Calculation: Type of Measurement	Rate - per 100,000
Calculation: Adjustment Applied	Age-adjusted
Calculation: Method of Adjustment	Direct Standardization <b>Standard Population:</b> Canada 2011
Denominator	<b>Description:</b> Total mid-year population age 65 and older <b>Description:</b> Total number of new hip fracture events for persons age 65 and older <b>Inclusions:</b> 1. Hip fracture present on admission  ICD-10-CA: S72.0, S72.1 or S72.2 or ICD-9/ICD-9-CM: 820.0–820.3, 820.8 or 820.9 coded as diagnosis type (1), [type (C) for Quebec data only] or type (M), (W), (X) or (Y) but not also as a diagnosis type (2)  2. Age at admission: 65 and older  3. Sex recorded as male or female
Numerator	4. Admission to an acute care institution (Facility Type Code = 1) <b>Exclusions:</b> 1. Records with an invalid health card number  2. Records with an invalid code for province issuing health card number  3. Records with an invalid admission date  4. Cadaveric donor or stillbirth records (Admission Category Code = R or S)  5. Hip fracture admissions within 28 days after the admission date of a previous hip fracture hospitalization  6. Patients with medical assistance in dying (MAID) (Discharge Disposition Code = 73)
Background, Interpretation and Benchmarks	

Hip fractures represent a significant health burden for seniors and for the health system. As well as causing disability or death, hip fracture may have a major effect on independence and quality of life. Measuring the occurrence of hip fractures in the population is important for planning and evaluating preventive strategies, allocating health resources and estimating costs.

**Rationale**

**Interpretation** Lower rates are desirable.

**HSP Framework** Health System Outputs: Appropriate and effective

**Dimension**

**Areas of Need** Staying Healthy

**Targets/Benchmarks** Not applicable

**References**

Chevalley T, Guilley E, Hermann FR, et al. Incidence of Hip Fracture over a 10-Year Period (1991-2000): Reversal of a Secular Trend. *Bone* 2007;(40): 1284-1289.

Marks R, Allegrante JP, MacKenzie CR, Lane JM. Hip Fractures Among the Elderly: Causes, Consequences and Control. *Ageing Res. Rev* 2003;(2): 57-93.

**Availability of Data Sources and Results**

**Data Sources** DAD, HMDB

**Type of Year:** Fiscal

**Available Data Years** **First Available Year:** 2010  
**Last Available Year:** 2018

**Geographic Coverage** All provinces/territories

**Reporting Level/Disaggregation** National, Province/Territory, Region, Neighbourhood Income Quintile

**Result Updates**

**Update Frequency** Every year

**Web Tool:**

**Indicator Results** Health Indicators e-Publication  
**URL:** <http://yourhealthsystem.cihi.ca/epub/?language=en>

**Updates** Not applicable

**Quality Statement**

**Caveats and Limitations** Not applicable

**Trending Issues** Not applicable  
This indicator includes all new hospitalized hip fractures in the reference period, encompassing first-ever and recurrent events.

**Comments**

A person may have more than one hip fracture event in the reference period.

Hip fractures not admitted to an acute care hospital and in-hospital hip fractures are not included in this indicator.

Hip fractures occurring in a hospital are reported separately in the In-Hospital Hip Fracture indicator.