

# Mental Illness Hospitalization

Name	Mental Illness Hospitalization
Short/Other Names	Not applicable
Description	<p>The indicator measures the age-standardized rate of separations from general hospitals through discharge or death following a hospitalization for a selected mental illness,* per 100,000 population.</p> <p><b>Note</b> *The mental illnesses selected for this indicator are substance-related disorders; schizophrenia, delusional and non-organic psychotic disorders; mood/affective disorders; anxiety disorders; and selected disorders of adult personality and behaviour.</p> <p>For further details, please see the <a href="#">General Methodology Notes</a>.</p>
Interpretation	Lower rates are desirable.
HSP Framework Dimension	Health System Outputs: Person-centred
Areas of Need	Living With Illness, Disability or Reduced Function
Geographic Coverage	All provinces/territories
Reporting Level/Disaggregation	National, Province/Territory, Region, Neighbourhood Income Quintile
Indicator Results	<a href="http://www.cihi.ca/hirpt/?language=en">http://www.cihi.ca/hirpt/?language=en</a>

## Identifying Information

Name	Mental Illness Hospitalization
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Indicator Description and Calculation	<p>The indicator measures the age-standardized rate of separations from general hospitals through discharge or death following a hospitalization for a selected mental illness,* per 100,000 population.</p>
Description	<p><b>Note</b> *The mental illnesses selected for this indicator are substance-related disorders; schizophrenia, delusional and non-organic psychotic disorders; mood/affective disorders; anxiety disorders; and selected disorders of adult personality and behaviour.</p> <p>For further details, please see the <a href="#">General Methodology Notes</a>.</p> <p>(Total number of separations for a selected mental illness for patients age 15 and older ÷ total mid-year population age 15 and older) × 100,000 (age adjusted)</p>
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	Logistic regression
Denominator	<p><b>Description:</b> Total mid-year population age 15 and older</p> <p><b>Description:</b> Total number of separations for a selected mental illness for patients age 15 and older</p> <p><b>Inclusions:</b></p> <ol style="list-style-type: none"><li>1. A selected mental illness is coded as the most responsible diagnosis (MRDx)</li><li>2. Diagnosis codes for selected disorders:<ol style="list-style-type: none"><li>a) Substance-related disorders ICD-10-CA: F55, F10 to F19</li></ol></li></ol>

DSM-IV: 291.x (0, 1, 2, 3, 5, 81, 89, 9), 292.0, 292.11, 292.12, 292.81, 292.82, 292.83, 292.84, 292.89, 292.9, 303.xx (00, 90), 304.xx (00, 10, 20, 30, 40, 50, 60, 80, 90), 305.xx (00, 10 to 90 excluding 80)

Provisional diagnosis:\* (d) substance-related disorder

b) Schizophrenia, delusional and non-organic psychotic disorders

ICD-10-CA: F20 (excluding F20.4), F22, F23, F24, F25, F28, F29, F53.1

DSM-IV: 295.xx (10, 20, 30, 40, 60, 70, 90), 297.1, 297.3, 298.8, 298.9

Provisional diagnosis:\* (e) schizophrenia disorder

c) Mood/affective disorders

ICD-10-CA: F30, F31, F32, F33, F34, F38, F39, F53.0

DSM-IV: 296.0x, 296.2x, 296.3x, 296.4x, 296.5x, 296.6x, 296.7, 296.80, 296.89, 296.90, 300.4, 301.13

Provisional diagnosis:\* (f) mood disorders

Numerator

d) Anxiety disorders

ICD-10-CA: F40, F41, F42, F43, F48.8, F48.9, F93.8

DSM-IV: 300.xx (00, 01, 02, 21, 22, 23, 29), 300.3, 308.3, 309.x (0, 3, 4, 9), 309.24, 309.28, 309.81

Provisional diagnosis:\* (g) anxiety disorders or (o) adjustment disorders

e) Selected disorders of adult personality and behaviour

ICD-10-CA: F60, F61, F62, F68, F69, F21

DSM-IV: 300.16, 300.19, 301.0, 301.20, 301.22, 301.4, 301.50, 301.6, 301.7, 301.81, 301.82, 301.83, 301.9

Provisional diagnosis:\* (p) personality disorders

Note

\*Only for data extracted from the Ontario Mental Health Reporting System (OMHRS) with no DSM-IV code recorded.

3. Age at admission 15 years and older

4. Sex recorded as male or female

5. Canadian resident (Canadian postal code)

**Exclusions:**

1. Newborn, stillbirth or cadaveric donor records (Admission Category = N, R or S)

2. Records with an invalid health card number

3. Records with an invalid date of birth (non-Quebec records)

4. Records with an invalid admission date

5. Records with an invalid discharge date

Background, Interpretation and Benchmarks

Hospitalization rate is a partial measure of general hospital utilization. It does not include inpatients who were using hospital services but had not yet been discharged within the fiscal year of interest. This indicator may reflect differences between jurisdictions, such as the health of the population, differing health service delivery models and variations in the availability and accessibility of specialized, residential and/or ambulatory and community-based services.

Rationale

Monitoring hospital service use captures only the relatively small proportion of individuals who are acutely ill and require in-hospital treatment, compared with the much larger contingent that receives (or fails to receive) outpatient or community services. For these reasons, this indicator cannot be used to estimate the prevalence of mental disorders in the general population.

Interpretation

Lower rates are desirable.

HSP Framework Dimension

Health System Outputs: Person-centred

Areas of Need

Living With Illness, Disability or Reduced Function

Benchmarks have not been identified for this indicator.

Targets/Benchmarks

The following results were found in the literature. In 2005–2006, the age-standardized rate for general hospitals in Canada was 507.1 separations per 100,000 population.<sup>1</sup> Over the last 4 years of reporting, results have been stable.

References

Canadian Institute for Health Information, Hospital Mental Health Services in Canada 2005–2006 (Ottawa, Ont.: CIHI, 2008).

Availability of Data Sources and Results

Data Sources

DAD, HMDB, OMHRS

**Type of Year:**

Fiscal

Available Data Years

**First Available Year:**

2009

**Last Available Year:**

2013

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://www.cihi.ca/hirpt/?language=en>

Updates Not applicable

Quality Statement

Caveats Individuals can be admitted to hospital more than once for the treatment of a mental illness, and they can have more than 1 condition and at a given time. Separation data, therefore, does not represent either the number of mental illnesses that led to the separations or the Limitations number of people with mental illness who were separated from the hospital.

Trending Not applicable

Issues While this indicator does not include data from free-standing psychiatric facilities, it is acknowledged that in some jurisdictions (e.g., Comments Alberta) direct substitution between general and psychiatric facilities exists; the extent of this practice is unknown. As such, this indicator provides a partial view of hospital utilization for mental health issues in an acute setting.