Restraint Use in Long-Term Care

Restraint Use in Long-Term Care Name

Short/Other Names Percentage of Residents in Daily Physical Restraints

This indicator looks at how many long-term care residents are in daily physical restraints. Restraints are sometimes

used to manage behaviours or to prevent falls. There are many potential physical and psychological risks associated

with applying physical restraints to older adults, and such use raises concerns about safety and quality of care.

Interpretation Lower is better. It means that a lower percentage of long-term care residents were in daily physical restraints.

HSP Framework Dimension

Description

Health System Outputs: Appropriate and effective

Areas of Need Living With Illness, Disability or Reduced Function

Geographic Newfoundland and Labrador, New Brunswick, Nova Scotia, Ontario, Manitoba, Saskatchewan, Alberta, British

Columbia, Yukon Coverage

Reporting

Province/Territory, Region, Facility, Corporation, Sector (residential and hospital-based continuing care) Level/Disaggregation

Accessing Indicator Results on Your Health System: In Depth Indicator Results

Identifying Information

Name Restraint Use in Long-Term Care

Short/Other Names Percentage of Residents in Daily Physical Restraints

Indicator Description and Calculation

This indicator looks at how many long-term care residents are in daily physical restraints. Restraints are sometimes used to

Description manage behaviours or to prevent falls. There are many potential physical and psychological risks associated with applying physical

restraints to older adults, and such use raises concerns about safety and quality of care.

This indicator examines the percentage of residents in daily physical restraints. It is calculated by dividing the number of residents who were in daily physical restraints by the number of all residents (excluding comatose residents and those who are quadriplegic)

Calculation: with valid assessments within the applicable time period.

Description

Unit of Analysis: Resident

Calculation:

Geographic Place of service

Assignment

Calculation:

Type of Percentage or proportion

Measurement

The following covariates are used in risk adjustment: Calculation:

Individual Covariates: None Adjustment

Applied Facility-Level Stratification: Activities of Daily Living (ADLs) Long Form Scale

Calculation: Stratification, Direct Standardization, Indirect Standardization

Method of Standard Population:

3,000 facilities in 6 U.S. states and 92 residential care facilities and continuing care hospitals in Ontario and Nova Scotia Adjustment

Description:

Residents with valid assessments

Inclusions:

1. Residents with valid assessments. To be considered valid, the target assessment must

Denominator

a. Be the latest assessment in the quarter

b. Be carried out more than 92 days after the Admission Date

c. Not be an Admission Full Assessment

Exclusions:

1. Residents who are comatose (B1 = 1) or quadriplegic (I1bb = 1)

Residents who were physically restrained daily on their target assessment. For this indicator, restraints included

- Trunk Restraint (P4c = 2)
- Limb Restraint (P4d = 2)
- Chair Prevents Rising (P4e = 2)

1. Residents with valid assessments. To be considered valid, the target assessment must

Numerator

- a. Be the latest assessment in the quarter
- b. Be carried out more than 92 days after the Admission Date
- c. Not be an Admission Full Assessment

Exclusions:

1. Residents who are comatose (B1 = 1) or quadriplegic (I1bb = 1)

Background, Interpretation and Benchmarks

CCRS quality indicators were developed by interRAI (www.interrai.org), an international research network, to provide organizations with measures of quality across key domains, including physical and cognitive function, safety and quality of life. Each indicator is adjusted for resident characteristics that are related to the outcome and independent of quality of care. The indicators can be used by quality leaders to drive continuous improvement efforts. They are also used to communicate

with key stakeholders through report cards and accountability agreements. Interpretation Lower is better. It means that a lower percentage of long-term care residents were in daily physical restraints.

HSP Framework Dimension

Rationale

Health System Outputs: Appropriate and effective

Areas of Need Living With Illness, Disability or Reduced Function CIHI: None

Targets/Benchmarks

Health Quality Ontario (external): 3% for long-term care

Canadian Institute for Health Information. CCRS Quality Indicators Risk Adjustment Methodology. 2013.

Canadian Institute for Health Information. When a Nursing Home Is Home: How Do Canadian Nursing Homes Measure Up on Quality? 2013.

Health Quality Ontario. Long-Term Care Benchmarking Resource Guide. 2013.

Health Quality Ontario. Results From Health Quality Ontario's Benchmark Setting for Long-Term Care Indicators. 2017.

References

Health Quality Ontario. Health Quality Ontario Indicator Library. Accessed October 4, 2017.

Hirdes JP, Mitchell L, Maxwell CJ, White N. Beyond the "iron lungs of gerontology": Using evidence to shape the future of nursing homes in Canada. Canadian Journal on Aging. 2011.

Hirdes JP, Poss JW, Caldarelli H, et al. An evaluation of data quality in Canada's Continuing Care Reporting System (CCRS): Secondary analyses of Ontario data submitted between 1996 and 2011. BMC Medical Informatics and Decision Making, 2013.

Jones RN, Hirdes JP, Poss JW, et al. Adjustment of nursing home quality indicators. BMC Health Services Research. 2010.

Availability of Data Sources and Results

Data Sources CCRS

Type of Year: Fiscal

First Available Year: Available Data Years

2010

Last Available Year:

Geographic Coverage

Newfoundland and Labrador, New Brunswick, Nova Scotia, Ontario, Manitoba, Saskatchewan, Alberta, British

Columbia, Yukon

Level/Disaggregation

Reporting

Province/Territory, Region, Facility, Corporation, Sector (residential and hospital-based continuing care)

Result Updates

Update Frequency Every year

Web Tool:

Your Health System: In Depth

Indicator Results

Accessing Indicator Results on Your Health System: In Depth

Updates Not applicable

Quality Statement

Users should be cautious when interpreting results from the Continuing Care Reporting System (CCRS) because the CCRS frame does not currently contain all facilities in all provinces and territories that make up the CCRS population of interest; thus the population covered by CCRS may not be representative of all continuing care facilities across Canada.

Caveats Coverage is incomplete in the following jurisdictions:

and

Limitations - Manitoba (includes all facilities in Winnipeg Regional Health Authority only)

- New Brunswick
- Nova Scotia

Indicators are risk-adjusted to control for potential confounding factors.

Since 2003, the number of facilities and jurisdictions submitting to CCRS has been increasing. With the addition of new jurisdictions, it is possible that differences in care practices may impact indicator rates; however, changes to the underlying population would be

Trending

Issues

controlled for using risk-adjustment. There is also evidence to suggest that trending and use of data from the entire time series is not an issue and that data quality is consistent over time (Hirdes et al., 2013).

The CCRS quality indicators use 4 rolling quarters of data for calculations in order to have a sufficient number of assessments for risk adjustment. Since residents are assessed on a quarterly basis, each resident can contribute to the indicator up to 4 times.

Comments

Data for this indicator is also available in the Quick Stats tool, which includes results for both the residential and hospital-based continuing care sectors: https://www.cihi.ca/sites/default/files/document/ccrs-quick-stats-2016-2017-en.xlsx.