# **Long-Term Care Indicators**

There are 10 Common Quality Agenda indicators that are relevant to the long-term care sector. Four of these are sector-specific – accountability for improvement rests within the long-term care sector. These indicators are the same four reported at the provider level on the LTC public reporting website, and were supported through the Residents First initiative. It is anticipated that these same indicators may also be priorities for quality improvement plan (QIP) reporting when LTC is required to complete QIPs. An additional six Common Quality Agenda indicators have shared accountability between long-term care and acute care, primary care and home care sectors.

Long-term care indicators	Accountability	Target	Target source
Percent residents whose	Long-term care	12%	HQO
bladder continence worsened			benchmarking
Percent residents in daily	Long-term care	3%	HQO
physical restraints			benchmarking
Percent residents with who	Long-term care	9%	HQO
fell in the last 30 days			benchmarking
Percent residents with a	Long-term care	1%	HQO
newly occurring stage 2 to 4			benchmarking
pressure ulcer			
Admission rates for	Hospital/Primary	20% relative	Expert panel
conditions that are sensitive	Care/Long-Term	reduction year	consultation
to outpatient (ambulatory)	Care/Home Care	over year	
care delivery (CHF, COPD,			
diabetes, asthma) (R) (CD)			<b></b>
Percentage of ALC days in	Hospital/Primary	9.46% - 10% year	Provincial
acute care hospitals	Care/Long-Term	over year relative	government
(E) (CD)	Care/Home Care	reduction	
Lost-time and non-lost time	Hospital/Primary	Context	Context indicator
injury rates per 100 full-time	Care/Long-Term		
equivalent health care	Care/Home Care		
workers (E) (CD)		00/ /40 450/	
Psychiatric renospitalisation	Hospital/Primary	8% (10-15% year	Expert panel
rate within 30 days (R) (MH)	Care/Long-Term	over year relative	consultation
Deveentere of retients	Care/Home Care		Even ant in a real
Percentage of patients	Hospital/Primary	75% (10-15%	Expert panel
seeing a primary care	Care/Long-Term	improvement veer	consultation
7 days of discharge after an	Cale	improvement year	
inpatient stay for a montal		over year)	
hoalth and addictions			
condition (R) (MH)			
Percentage of adults >65	Long-Term Care /	80% PHAC target	PHAC (federal
vears who have received	Primary Care/ Public		dovernment)
influenza vaccine	Health		govorninonty

Percent of LTC r	esidents whose bladder continence worsened
Indicator	The percent of long-term care residents whose bladder continence
description	worsened since last assessment. The lower the indicator result, the
-	better. This indicator is jointly developed by interRAI and CIHI.
	This is reported in the 2013 Quality Monitor and the LTC public
	reporting website. This indicator is available quarterly as a rolling
	four quarter average.
Relevance/	"Incontinence can have a negative impact on the dignity, health and
Rationale	overall quality of life experienced by residents. Incontinence can
	lead to a loss of independence and is associated with a higher risk
	of other health conditions, such as pressure ulcers.
	The Long-Term Care Homes Act, 2007, requires all homes in
	Ontario to have a continence care and bowel management program
	to promote continence and to ensure that residents are clean, dry
	and comfortable."
	Text taken from the LTC public reporting website section "Why is
	this important to measure?"
Reporting	2013 Quality Monitor; LTC Public Reporting website
tool/product	
Attribute	Effective
Туре:	Incidence; outcome; core indicator
External	Sinha Report
Alignment	
Accountability	Long-term care
Calculation	Numerator
	Inclusion: Residents with a greater value for bladder incontinence
	on their target assessment compared with prior assessment
	Denominator
	Inclusion: Residents with valid assessments whose bladder
	continence could worsen (i.e., did not have maximum score on prior
	assessment)
	Exclusion:
	<ul> <li>Residents who were comatose (B1 Comatose)</li> </ul>
	<ul> <li>End-of-life residents (J5c End-Stage Disease, 6 or Fewer</li> </ul>
	Months to Live; P1ao Hospice Care)
Data source /	Data are based on mandatory RAI-MDS 2.0 assessments in the
data elements	Continuing Care Reporting System database held at CIHI.
	The LTC Team under Research Methods (Jonathan Lam &
	Maaike de Vries) has access to this data through CIHI's online
	reporting tool, eReports.
	The following data elements are used:
	H1b Bladder Continence
	This is available at the provincial, LHIN and facility-level.

Timing and	This indicator is available quarterly as a rolling four quarter average
frequency of	(fiscal quarters, starting from Q4 2009/10).
data release	
Levels of	This is available at the provincial, LHIN and facility-level.
comparability	
Targets and/or	Benchmark is set to 12% by an expert panel through a modified
Benchmarks	Delphi process.
	Resources about the benchmarking process can be found here:
	http://www.hqontario.ca/public-reporting/long-term-care/resources-
	tor-long-term-care-homes
Target source	HQO benchmarking process (2013)
Limitations	<ul> <li>While rolling four quarter averages stabilize the rates from</li> </ul>
	quarter-to-quarter variations, especially for smaller facilities, it is
	makes it more difficult to detect true quarterly improvements
	<ul> <li>Adjusted rates are censored if the denominator is &lt;30</li> </ul>
	Only includes long-stay beds
Adjustment	This indicator is risk adjusted at the individual covariate level and
(risk, age/sex	through direct standardization.
standardization)	
	Individual Covariates
	Personal Severity Index*: Subset 1: Diagnoses
	Personal Severity Index*: Subset 2: Non-Diagnoses
	Cognitive Performance Scale
	Resource Utilization Group Case-Mix Index
	Age younger than 65
	Direct Standardization
	<ul> <li>Activities of Daily Living Long Form^</li> </ul>
	*Personal Severity Index is statistically linked to the likelihood of
	death within six months
	<sup>^</sup> This includes bed mobility, transfer, locomotion, dressing, eating,
	toileting and personal hygiene self performance
Guidelines,	The RNAO Best Practices Toolkit for Continence and Constipation
SOPs, Evidence	(http://ltctoolkit.rnao.ca/resources/continence)
for best practice	
Comments	



### Figure1: Regional distributions of percent of LTC residents whose bladder continence worsened in fiscal year 2011/12

Data Source: CCRS, provided by CIHI

The box-plots show the location of the 10th, 25th, median, 75th, and 90th percentiles.

Note: British Columbia and Ontario capture most LTC homes in each province; Manitoba only captures facilities in the Winnipeg Regional Health Authority; and Newfoundland and Labrador, Nova Scotia, and the Yukon are derived from a small sample of homes.

### Figure2: Percent of LTC residents whose bladder continence worsened by fiscal year, FY2009/10 – FY2011/12



Data Source: CCRS, provided by CIHI

### Figure3: Percent of LTC residents whose bladder continence worsened by Ontario LTC facility in fiscal year 2011/12



Data Source: CCRS, provided by CIHI

# Table1: Facility-level distribution of the percent of LTC residents whose bladder continence worsened in fiscal year 2011/12; Data Source: CCRS, provided by CIHI

Min	5 <sup>th</sup> Percentile	10 <sup>th</sup> Percentile	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	Max
0.0	7.2	9.3	13.6	19.6	26.7	31.9	34.9	51.4

- The percent of residents with worsening bladder continence has improved from 20.6% in 2009/10 to 19.4% in 2011/12.
- Despite this improvement, large variation continues to exist among long-term care facilities in Ontario—ranging from 0% to 51.4% in 2011/12.

Percent of reside	ents in daily physical restraints
Indicator	The percent of long-term care residents in daily physical restraints.
description	The lower the indicator result, the better. This indicator is jointly
-	developed by interRAI and CIHI.
	This is reported in the 2013 Quality Monitor and the LTC public
	reporting website. This indicator is available quarterly as a rolling
	four quarter average.
	A physical restraint is any manual method, or any physical
	mechanical device, material or equipment that is attached or
	adjacent to the resident's body, that the resident cannot remove
	easily, and that restricts the resident's freedom of movement or
	normal access to his or her body. It is the effect the device has on
	the resident that classifies it into the category of restraint, not the
	name of label given to the device, nor the purpose of intent of the
	device. This definition is <b>different</b> from that of the MOHLTC's
	physical restraint definition where intent plays an important role.
Relevance/	"Some long-term care homes use restraints as a way of managing
Rationale	potentially harmful resident behaviours, such as wandering or
	aggression (e.g., hitting). Residents who display these behaviours
	often have dementia or other cognitive impairments and can
	sometimes pose a risk to themselves or others. However, restraints
	are known to cause injury and even accidental death. They are also
	associated with social isolation and a reduced quality of life. For this
	reason, it is important to reduce the use of restraints and find
	alternate ways of managing dementia-related behaviours.
	The Long-Term Care Homes Act. 2007, requires all homes in
	Ontario to have restraint policies in place. Any necessary restraining
	must be done in accordance with the requirements under the Act."
	this important to macoura?"
Poporting	2012 Quality Manitor: LTC Public Paparting website
tool/product	2013 Quality Monitor, ETC Fublic Reporting website
Attribute	Safe
Type:	Prevalence: outcome: core indicator
External	Sinha Report
Alignment	
Accountability	Long-term care
Calculation	Numerator
	Inclusion: Residents who were physically restrained daily on their
	target assessment
	Denominator
	Inclusion: Residents with valid assessments
	Exclusion: Residents who were comatose (B1 Comatose) or
	quadripiegic (I1bb Quadripiegia)

Data source /	<ul> <li>Data are based on mandatory RAI-MDS 2.0 assessments in the</li> </ul>
data elements	Continuing Care Reporting System database held at CIHI.
	<ul> <li>The LTC Team under Research Methods (Jonathan Lam</li> </ul>
	& Maaike de Vries) has access to this data through
	CIHI's online reporting tool eReports
	<ul> <li>The following data elements are used:</li> </ul>
	Plo Trunk Postroint
	0 F40 Hulik Restraint
	0 P40 LIMD Resultant
	• P4e Chair Prevents Rising
	I his is available at the provincial, LHIN and facility-level.
Timing and	This indicator is available quarterly as a rolling four quarter average
frequency of	(fiscal quarters, starting from Q4 2009/10.
data release	
Levels of	This is available at the provincial, LHIN and facility-level.
comparability	
Targets and/or	Benchmark is set to 3% by an expert panel through a modified
Benchmarks	Delphi process.
	Resources about the benchmarking process can be found here:
	http://www.hqontario.ca/public-reporting/long-term-care/resources-
	for-long-term-care-homes
Target source	HQO benchmarking process (2013)
Limitations	While rolling four guarter averages stabilize the rates from
	quarter to quarter variational conceiptly for smaller facilities, it is
	quarter-to-quarter variations, especially for smaller facilities, it is
	makes it more difficult to detect true quarterly improvements
	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> </ul>
	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> </ul>
	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the</li> </ul>
	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the</li> </ul>
	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve the MOHLTC legislated definition.</li> </ul>
	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve</li> </ul>
Adjustmont	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> </ul>
Adjustment	<ul> <li>quarter-to-quarter variations, especially for smaller facilities, it is makes it more difficult to detect true quarterly improvements</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Long Form comprises had</li> </ul>
Adjustment (risk, age/sex	<ul> <li>quarter-to-quarter variations, especially for smaller facilities, it is makes it more difficult to detect true quarterly improvements</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed</li> </ul>
Adjustment (risk, age/sex standardization)	<ul> <li>quarter-to-quarter variations, especially for smaller facilities, it is makes it more difficult to detect true quarterly improvements</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed mobility, transfer, locomotion, dressing, eating, toileting and participated participated participated.</li> </ul>
Adjustment (risk, age/sex standardization)	<ul> <li>quarter-to-quarter variations, especially for smaller facilities, it is makes it more difficult to detect true quarterly improvements</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed mobility, transfer, locomotion, dressing, eating, toileting and personal hygiene self performance</li> </ul>
Adjustment (risk, age/sex standardization) Guidelines,	<ul> <li>quarter-to-quarter variations, especially for smaller facilities, it is makes it more difficult to detect true quarterly improvements</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed mobility, transfer, locomotion, dressing, eating, toileting and personal hygiene self performance</li> <li>The RNAO Clinical Best Practice Guideline on "Promoting Safety:</li> </ul>
Adjustment (risk, age/sex standardization) Guidelines, SOPs, Evidence	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed mobility, transfer, locomotion, dressing, eating, toileting and personal hygiene self performance</li> <li>The RNAO Clinical Best Practice Guideline on "Promoting Safety: Alternative Approaches to the Use of Restraints"</li> </ul>
Adjustment (risk, age/sex standardization) Guidelines, SOPs, Evidence for best practice	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed mobility, transfer, locomotion, dressing, eating, toileting and personal hygiene self performance</li> <li>The RNAO Clinical Best Practice Guideline on "Promoting Safety: Alternative Approaches to the Use of Restraints"</li> </ul>
Adjustment (risk, age/sex standardization) Guidelines, SOPs, Evidence for best practice	<ul> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> <li>Additionally, there may be some coding variation due to the difference in RAI-MDS physical restraint definition vs the MOHLTC legislated definition. As coding practices improve, the rates of physical restraint use may also improve.</li> <li>This indicator is risk adjusted via direct standardization using the Activities of Daily Living Long Form. ADL Long Form comprises bed mobility, transfer, locomotion, dressing, eating, toileting and personal hygiene self performance</li> <li>The RNAO Clinical Best Practice Guideline on "Promoting Safety: Alternative Approaches to the Use of Restraints" (<a href="http://rnao.ca/sites/rnao-ca/files/Promoting_Safety">http://rnao.ca/sites/rnao-ca/files/Promoting_Safety</a></li> </ul>





The box-plots show the location of the 10th, 25th, median, 75th, and 90th percentiles.

Note: British Columbia and Ontario capture most LTC homes in each province; Manitoba only captures facilities in the Winnipeg Regional Health Authority; and Newfoundland and Labrador, Nova Scotia, and the Yukon are derived from a small sample of homes.





# Figure3: Percent of LTC residents in daily physical restraints in fiscal year 2011/12 by Ontario LTC facility in fiscal year 2011/12



# Table1: Facility-level distribution of the percent of LTC residents in daily physical restraints in fiscal year 2011/12

Min	5 <sup>th</sup>	10 <sup>th</sup>	25 <sup>th</sup>	Median	75 <sup>th</sup>	90 <sup>th</sup>	95 <sup>th</sup>	Max
	Percentile	Percentile	Percentile		Percentile	Percentile	Percentile	
0.0	0.9	2.3	6.1	12.5	20.9	27.1	31.1	54.0

#### **Statement of results**

The percent of residents who were physically restrained has decreased from 17% in 2009/10 to 14% in 2011/12— it is significant that the decrease in restraint use was observed without an increase in percent of fallers, suggesting that with the appropriate policies and the use of best practice, restraint use may be further reduced without increasing the percent of residents who fall. Despite this improvement, restraint use continues to be too high. Given that one in ten homes achieved restraint rates at or lower than 2.3% and the US national average was 2.0%<sup>1</sup> in 2012, there is room for improvement. The variation across LTC homes is large—ranging from 0% to 54%.

<sup>&</sup>lt;sup>1</sup> Nursing Home Compare: Medicare Nursing Home Finder (<u>http://www.medicare.gov/nursinghomecompare/search.aspx</u>) (Accessed February 4, 2013).

Percent of reside	ents who fell in the last 30 days
Indicator	The percent of long-term care residents who fell in the last 30 days.
description	The lower the indicator result, the better. This indicator is jointly
	developed by interRAI and CIHI.
	This is reported in the 2013 Quality Monitor and the long-term care
	(LTC) public reporting website. This indicator is available guarterly
	as a rolling four quarter average.
Relevance/	"Residents can experience serious consequences after a fall
Rationale	including injuries that limit their independence and increase their
	care needs. Falls also have an effect on other parts of the
	healthcare system leading to more emergency department visits
	hospitalizations and surgeries
	The Long-Term Care Homes Act 2007 requires all homes in
	Ontario to have a falls provention and management program to
	reduce the incidence of falls and the risk of injury "
	Tout taken from the LTC nublic reporting website section "M/by is
	this important to measure?"
Demonsting	
Reporting	2013 Quality Monitor,
	Drevelence: euteemet core indicator
Type: Externel	Sinha Dapart
Alignmont	Sinna Report
Angriment	
Coloulation	
Calculation	Numerator
	their terget accessment
	Denominator
	Findusion: Nene
Data courso /	Data are based on mandatory DALMDS 2.0 accessments in the
Dala Source /	Continuing Core Departing System detabase hold at CIU
uala elements	The LTO Team under Desearch Mathada (Janathan Lang)
	Ine LIC Team under Research Methods (Jonathan Lam &
	Maaike de vries) has access to this data through CIHI's online
	reporting tool, ereports.
	The following data elements are used:
	The following data elements are used.
	• J4a feil in the past 30 days
	This is sucilable at the provincial I HIN and facility loval
Timing and	This is available at the provincial, LTIIN and facility-level.
froquency of	(field quarters, starting from O4 2000/40)
dete release	(iiscai quarters, starting ironi Q4 2009/10).
	This is available at the provincial 1 41NL and facility lovel
Levels of	This is available at the provincial, LHIN and facility-level.
Torgoto and/or	Renchmark is get at 00/ by an avaart name! through a modified
Targets and/or	Denchmark is set at 9% by an expert panel through a modified
Donohmoriko	

	Resources about the benchmarking process can be found here:
	http://www.hqontario.ca/public-reporting/long-term-care/resources-
	for-long-term-care-homes
Target source	HQO benchmarking process (2013)
Limitations	<ul> <li>While rolling four quarter averages stabilize the rates from</li> </ul>
	quarter-to-quarter variations, especially for smaller facilities, it is
	makes it more difficult to detect true quarterly improvements
	<ul> <li>Adjusted rates are censored if the denominator is &lt; 30</li> </ul>
	Only includes long-stay beds
Adjustment	This indicator is risk adjusted at the individual covariate level and
(risk, age/sex	through direct standardization.
standardization):	
	Individual Covariates
	<ul> <li>Not totally dependent in transferring</li> </ul>
	Locomotion problem
	<ul> <li>Personal Severity Index*: Subset 2: Non-Diagnoses</li> </ul>
	Any wandering
	<ul> <li>Unsteady gait/cognitive impairment</li> </ul>
	Age younger than 65
	Stratification
	Case Mix Index <sup>^</sup>
	*Developed Coverity Index is statistically linked to the likelihood of
	"Personal Severity index is statistically linked to the likelihood of
	death within Six months
	resource use for all Optario LTC residents
Guidelines	The RNAO Best Practices Toolkit for falls prevention and
SOPs Evidence	management (http://ltctoolkit.rnag.ca/resources/falls)
for best practice	
Comments	

### Figure1: Regional distributions of percent of LTC residents who fell in the last 30 days in fiscal year 2011/12



Data Source: CCRS, provided by CIHI

The box-plots show the location of the 10th, 25th, median, 75th, and 90th percentiles

Note: British Columbia and Ontario capture most LTC homes in each province; Manitoba only captures facilities in the Winnipeg Regional Health Authority; and Newfoundland and Labrador, Nova Scotia, and the Yukon are derived from a small sample of homes.

### Figure2: Percent of LTC residents who fell in the last 30 days by fiscal year, FY2009/10-FY2011/12



Data Source: CCRS, provided by CIHI





Data Source: CCRS, provided by CIHI

Table 1: Facility-level distribution of the percent of LTC residents who fell in the last 30 days in fiscal year 2011/12; Data Source: CCRS, provided by CIHI

auyo	adys in hodal year zer 1/12; Data obaroc: conto; provided by onin							
Min	5 <sup>th</sup>	10 <sup>th</sup>	25 <sup>th</sup>	Median	75 <sup>th</sup>	90 <sup>th</sup>	95 <sup>th</sup>	Max
	Percentile	Percentile	Percentile		Percentile	Percentile	Percentile	
2.8	6.8	8.5	10.8	13.7	16.5	18.8	21.5	40.6

- The percent of residents who fell in the last 30 days has been relatively constant between 2009/10 and 2011/12, ranging from 13.7% to 13.9%.
- As with the other three publicly reported home-level LTC quality indicators, a large performance gap exists between the homes with the best indicator results (10th percentile at 8.5%) and the homes with the worst indicator results (90th percentile at 18.8%). This large performance gap suggests that much improvement can be gained with this particular indicator.

Percent of resid	ents who had a newly occurring stage 2 to 4 pressure ulcer
Indicator	The percent of long-term care residents who had a newly occurring stage
description	2 to 4 pressure ulcer. The lower the indicator result, the better. This
	indicator is jointly developed by interRAI and CIHI.
	This is reported in the 2013 Quality Monitor and the LTC public reporting
	website. This indicator is available quarterly as a rolling four quarter
	average.
Relevance/	"Pressure ulcers are skin wounds that can develop when someone has
Rationale	been sitting or lying down for prolonged periods of time. Residents who
	develop pressure ulcers are at risk of serious health complications, such
	as infections and severe pain. Pressure ulcers are also very difficult and
	expensive to treat.
	The Long-Term Care Homes Act, 2007, requires all homes in Ontario to
	have a skin and wound care program to promote skin integrity, prevent
	the development of wounds and pressure licers, and provide effective
	Text taken from the LTC public reporting website section "Why is this
	important to measure?"
Reporting	2013 Quality Monitor; LTC Public Reporting website
tool/product	
Attribute	Safe
Туре:	Incidence; outcome; core indicator
External	Sinha Report
Alignment	
Accountability	Long-term care
Conclusion	Numerator
	Inclusion: Residents who had a pressure ulcer at stages 2 to 4 on their
	target assessment and no pressure licer at stages 2 to 4 on their prior
	Assessment
	Denominator
	2 to 4 ulcors on their prior accessment
	Exclusion: None
Data source	Data are based on mandatory RAI-MDS 2.0 assessments in the
/data elements	Continuing Care Reporting System database held at CIHI
	The LTC Team under Research Methods (Jonathan Lam &
	Maaike de Vries) has access to these data through CIHI's online
	reporting tool, eReports.
	The following data elements are used:
	M2a Stage of Pressure Ulcer
	This is available at the provincial, LHIN and facility-level.
Timing and	This indicator is available quarterly as a rolling four quarter average
frequency of	(fiscal quarters, starting from Q4 2009/10).
data release	
Levels of	This is available at the provincial, LHIN and facility-level.
comparability	

Targets and/or	Benchmark is set at 1% by an expert panel through a modified Delphi
Benchmarks	process.
	Resources about the benchmarking process can be found here: <u>http://www.hqontario.ca/public-reporting/long-term-care/resources-</u> <u>for-long-term-care-homes</u>
Target source	HQO benchmarking process (2013)
Limitations	<ul> <li>While rolling four quarter averages stabilize the rates from quarter-to- quarter variations, especially for smaller facilities, it makes it more difficult to detect true quarterly improvements</li> <li>Adjusted rates are censored if the denominator is less than 30</li> <li>Only includes long-stay beds</li> </ul>
Adjustment	This indicator is risk adjusted at the individual covariate level and through
(risk, age/sex	direct standardization.
standardization)	
	Individual covariates
	Age younger than 65
	<ul> <li>Personal Severity Index*: Subset 1: Diagnoses</li> </ul>
	More dependence in toileting
	Resource Utilization Group Cognitive Impairment
	Stratification
	Case Mix Index^
	*Personal Severity Index is statistically linked to the likelihood of death within six months
	^The relative resource use compared to the overall average resource use
	for all Ontario LTC residents
Guidelines,	The RNAO Best Practices Toolkit for pressure ulcer risk prevention and
SOPs, Evidence	management ( <u>http://ltctoolkit.rnao.ca/resources/pressure-ulcer</u> )
for best practice	
	OHTAC Recommendation: Prevention and Management of Pressure
	Ulcers
	( <u>http://www.health.gov.on.ca/english/providers/program/ohtac/tech/recom</u>
	mend/rec_pup_20091020.pdf)
Comments	

Figure1: Regional distributions of percent of LTC residents who had a newly occurring stage 2 to 4 pressure ulcer in fiscal year 2011/12.



The box-plots show the location of the 10th, 25th, median, 75th, and 90th percentiles.

Note: British Columbia and Ontario capture most LTC homes in each province; Manitoba only captures facilities in the Winnipeg Regional Health Authority; and Newfoundland and Labrador, Nova Scotia, and the Yukon are derived from a small sample of homes.

### Figure2: Percent of LTC residents who had a newly occurring stage 2 to 4 pressure ulcer by fiscal year, FY2009/10-FY2011/12



### Figure3: Percent of LTC residents who had a newly occurring stage 2 to 4 pressure ulcer by Ontario LTC facility in fiscal year 2011/12



Table1: Facility-level distribution of the percent of LTC residents who had a newly occurring stage 2 to 4 pressure ulcer in fiscal year 2011/12

Min	5 <sup>th</sup> Percentile	10 <sup>th</sup> Percentile	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	Мах
0.0	0.6	1.0	1.7	2.6	3.8	4.9	5.8	9.7

- Between 2009/10 (2.7%) and 2011/12 (2.6%), there was a 5% relative decrease in the percent of residents who were newly diagnosed with stage 2 to 4 pressure ulcers.
- Although there was a small improvement provincially, there were still homes with a high percent of residents who developed stage 2 to 4 pressure ulcers. The 10% of Ontario LTC homes with the worst indicator results had percentages that more than doubled the provincial median (5.8% vs 2.6%).

Admission rate f	or conditions that are sensitive to outpatient (ambulatory) care				
delivery: CHF	delivery: CHF				
Indicator description	This indicator measures the hospitalization rate for CHF in Ontario				
Relevance/	ACSCs are conditions where appropriate ambulatory care may prevent or				
Rationale	reduce the need for hospitalization. It is an important indicator because				
	monitoring potentially avoidable admissions for ACSCs can help tracking				
Poporting	Quality Monitor				
tool/product					
Attribute	Efficient / Integrated				
	Outcome and core indicator				
External	HQO Primary Care Performance Measurement (PCPM);				
Alignment	M-SAA indicator;				
_	May also align with Health Links; Ministry Quarterly Report: Ontario				
	Action Plan for Health Care				
Accountability	Hospital, Primary care, Long-term care, Home care				
Calculation	<b>Numerator</b> Number of inpatient records from acute care hospitals during				
	responsible diagnosis				
	Exclude:				
	1. Death before discharge				
	2. Patients sign themselves out				
	3. Transfers from another acute care facility				
	Denominator Ontario LHIN population files:				
	<ul> <li>2002-2010 population counts</li> </ul>				
	2011projected population counts				
Data source /	• DAD				
data elements	Stats Can LHIN Population Files				
Timing and	<ul> <li>Data updated by ICES at each fiscal year</li> </ul>				
frequency of					
data release	A propositions at provincial layer (EV/2002/02+)				
Levels Ol comparability	<ul> <li>Across time at provincial level (FY2002/03+);</li> <li>By LHIN for the most recent, EV i.e. EV2011/12;</li> </ul>				
comparability	• By LINN 101 the most recent F1, i.e. F12011/12, The following stratifications for the most recent FY i.e. FY2011/12:				
	<ul> <li>By age group (&lt;20, 20-44, 45-64, 65-79, 80+);</li> </ul>				
	<ul> <li>By age group (&lt;20, 20 +1, 10 0 1,00 + 0,00 +),</li> <li>By sex:</li> </ul>				
	<ul> <li>By sex,</li> <li>By income quintile:</li> </ul>				
	<ul> <li>By rural/urban status.</li> </ul>				
Targets and/or	Twenty percent relative year over year reduction				
Benchmarks					
Target Source	Expert consultation				
Limitations	n/a				
Adjustment	Age-sex standardized rate.				
(risk, age/sex					
ุ รเลเเนสเนเZสโไปไไ)					

Guidelines,	n/a
SOPs, Evidence	
for best practice	
Comment	n/a

# Figure 1. Age and Sex Standardized Hospitalization Rate for CHF, Ontario, FY2002/03-2011/12





# Figure 2. Age and Sex Standardized Hospitalization Rate for CHF, Ontario, by LHIN, FY2011/12

Note: The standardized rates in Figure 1 and 2 are adjusted by age and sex.

Table1	. Standardized hospitalization	rate for CHF, k	by age, by sex,	by rural/urban st	atus
and by	income quintiles, FY2011/12.				

		Standardized Rate		
Variable	Stratification	(per 100,000 population)	95%LCL	95%UCL
	<20	1.6	1.2	2.1
Age	20-44	5.9	5.2	6.7
	45-64	64.7	62.2	67.3
	65-79	469.6	458.0	481.3
	80+	1774.2	1737.2	1811.8
Sex	Female	116.5	114.1	118.9
	Male	162.6	159.2	165.9
Income	Q1 (Lowest)	170.7	165.6	175.8
quintile	Q2	146.2	141.7	150.8
	Q3	136.7	132.3	141.3
	Q4	127.0	122.7	131.3
	Q5 (Highest)	107.6	103.7	111.5
Rural/	Urban	137.9	135.8	140.1
Urban	Rural	132.0	126.7	137.5

- Over the past ten years, the CHF hospitalization rates have decreased by 27.4%, from 188.9 per 100,000 population in 2002/03 to 137.2 per 100,000 population in 2011/12.
- CHF hospitalization rates varied across the LHINs, ranging from 115.8 per 100,000 population in the Central East LHIN to 221.9 per 100,000 population in the North West LHIN in 2011/12.
- The rates of hospitalizations varied significantly by sex, age group and neighbourhood income quintile but not by rural/urban status. Men and older adults had higher CHF hospitalization rates than their counterparts. CHF hospitalization rates decreased consistently with increasing neighbourhood income quintile.

Admission rate f	or conditions that are sensitive to outpatient (ambulatory)				
care delivery: CO	OPD				
Indicator	This indicator measures the hospitalization rate for COPD in				
description	Ontario				
Relevance/	ACSCs are conditions where appropriate ambulatory care may				
Rationale	prevent or reduce the need for hospitalization. It is an important				
	indicator because monitoring potentially avoidable admissions for				
	ACSCs can help tracking the performance of primary care system.				
Reporting	Quality Monitor				
tool/product					
Attribute	Efficient / Integrated				
Type	Outcome and core indicator				
External	HQO Primary Care Performance Measurement (PCPM);				
Alignment	M-SAA Indicator;				
	May also align with Health Links; Ministry Quarterly Report: Ontario				
Accountability	Action Plan for Health Care				
Calculation	Numerator Number of inpatient records from agute care bespitals				
Calculation	during each fiscal year from 2002/02 2011/12 with COPD as the				
	most responsible diagnosis				
	Exclude:				
	4. Death before discharge				
	5. Patients sign themselves out				
	6. Transfers from another acute care facility				
	<b>Denominator</b> Ontario LHIN population files:				
	2002-2010 population counts				
	<ul> <li>2011 projected population counts</li> </ul>				
Data source /	• DAD				
data elements	Stats Can LHIN Population Files				
Timing and	Data updated by ICES at each fiscal year				
frequency of					
data release					
Levels of	<ul> <li>Across time at provincial level (FY2002/03+);</li> </ul>				
comparability	• By LHIN for the most recent FY, i.e. FY2011/12;				
	The following stratifications for the most recent FY, i.e. FY2011/12:				
	• By age group (<20, 20-44,45-64,65-79,80+);				
	• By sex:				
	By income quintile:				
	<ul> <li>By rural/urban status.</li> </ul>				
Targets and/or	Twenty percent relative year over year reduction				
Benchmarks					
Target Source	Expert consultation				
Limitations	n/a				
Adjustment	Age-sex standardized rate.				
(risk, age/sex					
standardization)					

Guidelines,	n/a
SOPs, Evidence	
for best practice	
Comments	n/a

Figure1.	Age and	Sex S	Standardize	d Hospi	talization	Rate for	COPD,	Ontario,	FY2002/03-
2011/12									





# Figure 2. Age and Sex Standardized Hospitalization Rate for COPD, Ontario, by LHIN, FY2011/12

Note: The standardized rates in Figure 1 and 2 are adjusted by age and sex.

Table1. Standardized Hospitalization Rate for COPD	, by age, by sex, by rural/urban status
and by income quintiles, FY2011/12	

		Standardized Rate(per 100,000		
Variable	Stratification	population)	95%LCL	95%UCL
	<20	1.0	0.7	1.4
Age	20-44	4.8	4.2	5.5
	45-64	123.7	120.1	127.3
	65-79	691.6	677.6	705.7
	80+	1459.1	1424.9	1493.9
Sex	Female	145.8	143.0	148.6
	Male	185.3	181.8	188.9
Income	Q1 (Lowest)	249.8	243.6	256.1
quintile	Q2	173.9	169.0	179.0
	Q3	151.4	146.7	156.2
	Q4	136.3	131.9	140.8
	Q5 (Highest)	103.8	100.0	107.6
Rural/Urban	Urban	153.9	151.6	156.2
	Rural	208.4	201.8	215.2

- Over the past ten years, the COPD hospitalization rate has decreased from 166.7 per 100,000 population in 2002/03 to 161.3 per 100,000 population in 2011/12.
- COPD hospitalization rates varied across the LHINs, ranging from 85.3 per 100,000 population in the Central LHIN to 314.3 per 100,000 population in the North West LHIN.
- The rate of COPD hospitalizations increased with age and was higher among men than among women. Rates also varied by neighbourhood income quintile and rural/urban status. The COPD hospitalization rates decreased with increasing neighbourhood income quintile and populations from rural areas had higher COPD hospitalization rates than their counterparts. Those living in the lowest income neighbourhoods an almost 2.5 times higher hospitalization rate than those living in the highest income neighbourhoods (249.8 vs 103.8 per 100,000 population).

Admission rate f	or conditions that are sensitive to outpatient (ambulatory)
care delivery: Di	abetes
Indicator	This indicator measures the hospitalization rate for diabetes in
description	Ontario
Relevance/	ACSCs are conditions where appropriate ambulatory care may
Rationale	prevent or reduce the need for hospitalization. It is an important
	indicator because monitoring potentially avoidable admissions for
	ACSCs can help tracking the performance of primary care system.
Reporting	Quality Monitor
tool/product	
Attribute	Efficient / Integrated
Туре	Outcome and core indicator
External	HQO Primary Care Performance Measurement (PCPM);
Alignment	M-SAA indicator;
	May also align with Health Links; Ministry Quarterly Report: Ontario
A	Action Plan for Health Care
Accountability	Hospital, Primary care, Long-term care, Home care
Calculation	<b>Numerator</b> Number of inpatient records from acute care nospitals
	during each liscal year from 2002/03-2011/12 with diabetes as the
	Excludo:
	7 Death before discharge
	8 Patients sign themselves out
	9 Transfers from another acute care facility
	<b>Denominator</b> Ontario I HIN population files:
	<ul> <li>2002-2010 population counts</li> </ul>
	<ul> <li>2002-2010 population counts</li> <li>2011 projected population counts</li> </ul>
Data source /	
data elements	Stats Can I HIN Population Files
Timing and	Data updated by ICES at each fiscal year
frequency of	· Data updated by IOEO at caeffilistal year
data release	
Levels of	Across time at provincial level (EY2002/03+)
comparability	<ul> <li>By LHIN for the most recent FY i.e. FY2011/12.</li> </ul>
	The following stratifications for the most recent FY, i.e. FY2011/12
	• By age group (<20, 20-44 45-64 65-79 80+)
	<ul> <li>By sex:</li> </ul>
	By income quintile:
	<ul> <li>By rural/urban status</li> </ul>
Targets and/or	Twenty percent relative year over year reduction
Benchmarks	
Target Source	Expert consultation
Limitations	n/a
Adjustment	Age-sex standardized rate.
(risk, age/sex	
standardization)	

Guidelines,	n/a
SOPs, Evidence	
for best practice	
Comments	n/a





Figure 2. Age and Sex Standardized Hospitalization Rate for Diabetes, Ontario, by LHIN, FY2011/12



Note: The standardized rates in Figure 1 and 2 are adjusted by age and sex

Table1. Standardized Hospitalization Rate for Diabetes, by age, by sex, by rural/urban status and by income quintiles, FY2011/12

		Standardized Rate		
Variable	Stratification	population)	95%LCL	95%UCL
	<20	31.3	29.4	33.4
Age	20-44	33.1	31.5	34.8
	45-64	31.8	30.0	33.6
	65-79	54.0	50.1	58.1
	80+	112.2	103.0	122.0
Sex	Female	34.7	33.4	36.2
	Male	40.5	39.0	42.1
Income	Q1 (Lowest)	54.4	51.6	57.3
quintile	Q2	41.5	39.1	44.1
	Q3	34.8	32.6	37.2
	Q4	30.8	28.7	32.9
	Q5 (Highest)	25.9	24.0	27.9
Rural/Urban	Urban	36.7	35.6	37.8
Rula/Olban	Rural	43.4	40.1	46.9

- Over the past ten years, the diabetes hospitalization rate has decreased by 31%, from 54.3 per 100,000 population in 2002/03 to 37.4 per 100,000 population in 2011/12.
- Diabetes hospitalization rates varied across the LHINs, ranging from 26.1 per 100,000 population in the Central LHIN to 62.6 per 100,000 population in the North East LHIN in 2011/12.
- The rate of hospitalizations for diabetes varied by patient age group, sex, neighbourhood income quintile and urban/rural status. Men, older adults, those from rural areas of the province and those living in lower-income neighbourhoods had higher rates of hospitalizations for diabetes than their counterparts. Diabetes hospitalization rates decreased as neighbourhood income quintile increased; those living in the lowest income neighbourhoods had more than twice the hospitalization rate as those living in the highest income neighbourhoods (54.4 vs 25.9 per 100,000 population).

Admission rate f	or conditions that are sensitive to outpatient (ambulatory) care
delivery: Asthma	3
Indicator description	This indicator measures the hospitalization rate for asthma in Ontario
Relevance/	ACSCs are conditions where appropriate ambulatory care may prevent or
Rationale	reduce the need for hospitalization. It is an important indicator because
	monitoring potentially avoidable admissions for ACSCs can help tracking
	the performance of primary care system.
Reporting	Quality Monitor
tool/product	Efficient / Integrated
Type	Outcome and core indicator
Type	HOO Primary Care Portermance Measurement (PCPM):
Δlianment	M-SAA indicator
Anginicit	May also align with Health Links: Ministry Quarterly Report: Ontario
	Action Plan for Health Care
Accountability	Hospital, Primary Care, Long-term care, Home care
Calculation	Numerator Number of inpatient records from acute care hospitals during
	each fiscal year from 2002/03-2011/12 with asthma as the most
	responsible diagnosis.
	Exclude:
	10. Death before discharge
	12. Transfors from another acute care facility
	Denominator Optoria   UIN population filog
	Denominator Ontano LHIN population mes.
	2002-2010 population counts
	<ul> <li>2011 projected population counts</li> </ul>
Data source /	• DAD
data elements	Stats Can LHIN Population Files
Timing and	<ul> <li>Data updated by ICES at each fiscal year</li> </ul>
frequency of	
data release	
Levels of	Across time at provincial level (FY2002/03+);     Divid LUN (an the most find each EX (an EX (40))
comparability	• By LHIN for the most recent FY, i.e. FY2011/12;
	The following stratifications for the most recent $FT$ , i.e. $FT20TT/T2$ .
	• By age group (<20, 20-44,45-64,65-79,60+),
	<ul> <li>By income quintile:</li> </ul>
	<ul> <li>By income quintile,</li> <li>By rural/urban status</li> </ul>
Targets and/or	Twenty percent relative year over year reduction
Benchmarks	
Target Source	Expert consultation
Limitations	n/a
Adjustment	Age-sex standardized rate
(risk, age/sex	
standardization)	

Guidelines,	n/a
SOPs, Evidence	
for best practice	
Comments	n/a

### Figure 1. Age and Sex Standardized Hospitalization Rate for Asthma, Ontario, FY2002/03-2011/12



### Figure 2. Age and Sex Standardized Hospitalization Rate for Asthma, Ontario, by LHIN, FY2011/12



Note: The standardized rates in Figure 1 and 2 are adjusted by age and sex.

Table1. Standardized Hospitalization Rate for Asthma, by age, by sex, by rural/urban status and by income quintiles, FY2011/12

	04	Standardized Rate		
Variable	Stratification	(per 100,000 population)	95%LCL	95%UCL
	<20	89.2	85.9	92.6
Age	20-44	15.0	13.9	16.1
	45-64	18.7	17.4	20.1
	65-79	25.1	22.5	27.9
	80+	37.6	32.7	42.9
Sex	Female	35.4	34.0	36.9
••••	Male	34.6	33.3	36.1
Income	Q1 (Lowest)	46.6	44.1	49.3
quintile	Q2	40.1	37.7	42.6
	Q3	35.2	33.0	37.5
	Q4	30.1	28.1	32.2
	Q5 (Highest)	24.9	23.0	26.9
Rural/	Urban	36.1	35.0	37.2
Urban	Rural	31.3	28.4	34.3

- Over the past ten years, the asthma hospitalization rates have decreased by 45%, down from 63.5 per 100,000 population in 2002/03 to 35.4 per 100,000 population in 2011/12.
- Asthma hospitalization rates varied across the LHINs, ranging from 24.9 per 100,000 population in the North Simcoe Muskoka LHIN to 61.0 per 100,000 population in the Central West LHIN in 2011/12.
- The rate of hospitalizations for asthma varied by patient age, neighbourhood income quintile and rural/urban status, but not by sex. The youngest (i.e. <20 years old group) were more likely to be admitted to hospitals due to asthma than older patients and asthma admission rates were higher in rural areas than in urban areas. Asthma hospitalization rates also decreased consistently with increasing neighbourhood income quintile.

Percent of alternate	level of care (ALC) days (as a proportion of total
inpatient days) in ac	ute care hospitals
Indicator description	This indicator measures the number of bed days that are
	designated as being ALC in acute hospitals in Ontario.
Relevance/Rationale	The indicator measures the unnecessary use of high cost
	hospital services. There is a clear and pressing need to
	improve efficiencies and implement sustainable solutions that
	maximize our ability to provide the right service, in the right
	place, at the right time. ALC refers to those cases where a
	physician (or designated other) has indicated that a patient
	occupying an acute care hospital bed has finished the acute
	care phase of his/her treatment. Better quality of care is
	associated with a lower score of the indicator.
Reporting	QMonitor
tool/product	
Attribute	Efficient
Type	Process and core indicator
External Alignment	Onland's Action Plan for Health Care, Sinna Report,
	May also align with Health Links: Ministry Quarterly Penert:
	Walker Report
Accountability	Hospital Primary care Long-term care Home care
Calculation	Numerator Total number of inpatient days designated as ALC
Calculation	in a given time period (i.e. monthly guarterly, and yearly)
	<b>Denominator</b> Total number of inpatient days in a given time
	period
	Inclusion: Data are retrieved for acute care hospitals (hospital
	type = AP, AT)
	Exclusion: Newborns, stillborns, and records with missing or
	invalid "Discharge Date" are not included in this indicator.
Data source / data	Discharge Abstract Database (DAD), MOHLTC
elements	• FY2011-12 (final data sets), extracted October 2012
	Monthly, fiscal quarterly, fiscal yearly
Timing and	Yearly data reported in QMonitor.
frequency of data	
release	
Levels of	By hospital site, by LHIN, over time trending
comparability	
Targets and/or	Performance target: 9.46% (Note: the indicator reported here is
Benchmarks	different from what is used for the target – We report % of
	inpatient days that are designated as ALC days; target set for
	% of patients who are ALC)
Torresof Courres	10% relative year over year reduction
Limitationa	Provincially established + expert consultation
LIMITATIONS	Only includes acute care hospital beds
	INOT reported in a timely manner
	Only includes closed cases (those patients designated
	ALC who have been discharged)- and so may miss
	cases that carry over to the next fiscal year.

	<ul> <li>This indicator is based on discharge. Successes resulting in a higher rate of discharges in ALC clients will result in an initial spike in the results. Discharges of long-stay ALC clients will attribute all days to the time period of discharge, also potentially skewing the results. Point-in-time results must be analyzed with caution, and trending of this indicator is preferred.</li> </ul>
Adjustment (risk,	Crude rate
age/sex standardization):	
Guidelines, SOPs, Evidence for best practice	n/a
Comments	All numbers used for calculations are as reported by the hospitals. The information is from each acute site of the hospital and the assignment to a LHIN is based on the postal code of the hospital site. All data are suppressed where ALC separations are <5.

Figure 1. Percent of inpatient days designated as alternate level of care (ALC) days in acute care hospitals, FY2006/07-2011/12



Note: \*the indicator reported here is different from what is used for the target – We report % of inpatient days that are designated as ALC days; target set for % of patients who are ALC.

# Figure 2. Percent of inpatient days designated as alternate level of care (ALC) days in acute care hospital, by LHIN, FY2011/12



Note: \*the indicator reported here is different from what is used for the target – We report % of inpatient days that are designated as ALC days; target set for % of patients who are ALC

# Figure3. Percent of inpatient days designated as ALC days in acute care hospitals, by hospital, FY2011/12



Note: \*the indicator reported here is different from what is used for the target – We report % of inpatient days that are designated as ALC days; target set for % of patients who are ALC

# Table1. Hospital-level distribution of percent of ALC days in acute care hospitals, FY2011/12

Min	5 <sup>th</sup> Percentile	10 <sup>th</sup> Percentile	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	Мах
0.0	0.38	5.0	10.6	16.4	25.4	34.0	44.2	60.4

- After several years of increases in the percentage of ALC days, the provinical score has now decreased from 16.7% in 2010/11 to 14.6% in 2011/12, however even in this most recent year, approximately one in seven acute care hospital bed days was categorized as ALC (see figure 1).
- There is wide LHIN-level variation in the percentage of ALC days, from 10.0 % to 26.7% in 2011/12 (see Figure 2).
- Across 164 acute care hospitals in Ontario, ALC rates ranged from 0% to 60.4% in 2011/12; 60% of hospitals had rates that were higher than the provinical mean rate (see Figure 3).

Injury rate in hea	alth care providers
Indicator	Lost-time and non-lost time injury rates per 100 full-time equivalent
description	workers in:
	<ul> <li>Health Care Sectors (combined)</li> </ul>
	LTC homes
	Hospitals
	Nursing services
	Treatment clinics
	Professional offices and labs
Relevance/	There are 775.800 registered workers in Ontario's health care sector
Rationale	that work at more than 6.000 hospitals. long-term care homes.
	retirement homes, community care and other workplaces across
	Ontario. The health care sector faces some challenges which may
	have significant impact on worker health and on lost-time injury (LTI)
	rates. These include increased care requirements resulting from the
	aging of Ontario's population, increased patient and resident needs.
	increased obesity rates and increased demand on health and
	community care services. In addition, employers face recruitment
	and retention challenges, an aging workforce, a shortage of skilled
	professional staff, and an increase in casual and part-time
	workforce. <sup>2</sup>
	Implementing healthy work environments and building a culture of
	safety for health care workers are key to ensuring quality patient
	care. Enhancing morale and reducing absenteeism can reduce
	adverse events, improve patient safety and support improved patient
	outcomes. <sup>3</sup>
Reporting	Quality Monitor
tool/product	
Attribute	Appropriately resourced
Туре	Context
External	Quality Monitor
Alignment	
Accountability	Hospital, Primary care, Long-term care, Home care
Calculation	<i>Numerator</i> Total number of LTIs and NLTIs that occurred in the
	injury year in each health care setting.
	Notes: Lost-Time Injuries (LTIs) - allowed injury/illness claims by
	workers who have lost wages as a result of temporary or permanent
	impairment. Excludes fatalities.
	No lost-time injuries (INL I is) - allowed injury/illness claims by
	workers who have not lost wages, but who have incurred health care
	Denominator I otal Full I me Equivalent (FIE) Workers

<sup>&</sup>lt;sup>2</sup> Ontario Ministry of labour. Health care Sector Plan 2013-14. Accessed August2, 2013 at

http://www.labour.gov.on.ca/english/hs/sawo/sectorplans/2013/health/index.php <sup>3</sup> HealthForceOntario. Healthy Work Environment. Accessed on August 2, 2013 at http://www.healthforceontario.ca/en/Home/Employers/Healthy\_Work\_Environments

	Note: FTE Workers is an estimate based on the average hourly					
	wage for the rate group and the insurable earnings for the calendar					
	year, assuming a person works an average of 2,000 hours per year.					
Data source /	WSIB Enterprise Information Warehouse as of March 31st, of the					
data elements	following year for each injury year.					
Timing and	Provided by WSIB annually					
frequency of						
data release						
Levels of	Across time and health care settings such as:					
comparability	<ul> <li>Long-term care homes,</li> </ul>					
	<ul> <li>Residential care homes,</li> </ul>					
	Hospitals,					
	Nursing services,					
	<ul> <li>Supported group living residences and other facilities,</li> </ul>					
	Treatment clinics and specialized services,					
	Professional offices and agencies					
	For the detailed descriptions of these settings visit					
	http://www.labour.gov.on.ca/english/hs/sawo/sectorplans/2013/healt					
	h/healthcare_1.php					
Targets and/or	NA					
Benchmarks						
Target Source	NA					
Limitations						
Adjustment	None					
(risk, age/sex						
standardization)						
Guidelines,						
SOPs, Evidence						
for best practice						
Comments						

Figure 1. Lost-time and Non-lost-time injury rates by different health care sectors, 2002-2011



Source: WSIB

<b>RATE GROUP &amp; DESCRIPTION</b>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Homes for nursing Care	9.0	8.5	9.3	9.1	8.6	8.9	8.9	8.3	8.1	7.6
Homes for Residential Care	5.9	6.8	7.5	5.6	6.3	6.6	6.9	5.2	4.9	4.4
Hospitals	5.2	5.2	4.9	5.0	4.8	4.8	4.9	4.7	4.6	4.1
Nursing Services	5.4	5.9	5.5	5.7	5.6	5.2	5.5	4.9	4.8	4.9
Group Homes	9.0	9.3	8.8	9.6	8.1	8.4	7.3	8.0	8.1	8.0
Treatment clinics & Specialized Services	3.4	3.4	3.4	3.6	3.4	3.3	3.3	2.9	2.6	2.5
Professional Offices & Agencies	2.3	2.2	2.1	2.3	2.2	2.2	2.3	1.9	1.7	1.6
Health Care Sector	5.4	5.4	5.4	5.5	5.2	5.2	5.3	4.9	4.7	4.4

#### Table1. Rate per 100 FTE Injury Years

#### **Statement of results**

• The lost-time and non-lost-time injury rates in all health care sectors have dropped significantly from 2008 to 2011. From 2010 to 2011, there where around 940 less injuries reported in hospitals, the largest sector in health care, which constitutes to a 12% decrease in injury rates.

Influenza immun	ization coverage among adults 65 years of age and older			
Indicator	Proportion of people 65 years of age and older who have had an			
description	influenza vaccine for the current influenza season. The APHEO			
	Influenza Vaccination Core Indicator includes the following specific			
	indicators related to seniors:			
	<ul> <li>Influenza vaccination coverage for those 65 years and older</li> </ul>			
	with no chronic condition			
	<ul> <li>Influenza vaccination coverage for those 65 years and older</li> </ul>			
	with a chronic condition			
	Direction of improvement: increase			
	Frequency of reporting: intermittently reported by Statistics			
	Canada (see "reporting tool/product" section below).			
Relevance/	Adults and children with certain chronic diseases, persons 65 years			
Rationale	of age and older, children 6 to 59 months of age, pregnant women			
	and Aboriginal peoples are at high risk for influenza-related			
	complications			
Reporting	Statistics Canada reporting of influenza immunization:			
tool/product	Influenza immunization 2008			
	<u>The effect of universal influenza immunization on vaccination</u>			
A thuile and a	rates in Ontario, 2006			
Attribute	Focused on population health			
Type Externel	Context and process indicator			
External				
Angnment	Primary Care); M-SAA			
Coloulation	Primary Care, Long-term Care and Home Care			
Calculation	Mainterator			
	chronic condition who had a flu shot in past year			
	<ul> <li>Weighted number of people aged 65 years and older with a</li> </ul>			
	<ul> <li>Weighted humber of people aged of years and older with a chronic condition who had a flu shot in past year</li> </ul>			
	<b>Denominator</b> <sup>1</sup> Weighted total number aged 65 years and older			
Data source /	Canadian Community Health Survey (CCHS)			
data elements	Data elements used:			
	<ul> <li>Have you ever had a flu shot?</li> </ul>			
	<ul> <li>When did you have your last flu shot?</li> </ul>			
	<ul> <li>Do vou have asthma?</li> </ul>			
	<ul> <li>Do you have chronic bronchitis?</li> </ul>			
	<ul> <li>Do you have emphysema?</li> </ul>			
	<ul> <li>Do you have chronic obstructive pulmonary disease</li> </ul>			
	(COPD)?			
	<ul> <li>Do you have diabetes?</li> </ul>			
	<ul> <li>Do you have heart disease?</li> </ul>			
	<ul> <li>Do you have cancer?</li> </ul>			
	<ul> <li>Do you suffer from the effects of a stroke?</li> </ul>			
	Data collection method: national, telephone-based, population-			
	level health survey			
	Data availability:			
	Years available:			

	<ul> <li>CCHS Core Content (i.e., available for all health regions</li> </ul>						
	in Canada): 2000/2001; 2003; 2005; 2007/2008;						
	2009/2010:2011/2012:						
	Geography:						
	$\circ$ public health unit						
	Alternative data source: Rapid Risk Factor Surveillance						
	System (RRFSS)						
	<ul> <li>Approximately half of Ontario health units participate in</li> </ul>						
	RRFSS, a telephone-based, population-level health survey						
	conducted in Ontario by the Institute for Social Research.						
	No provincial sample is available.						
	<ul> <li>RRFSS data have traditionally been used by health units to</li> </ul>						
	produce flu immunization results, as data are traditionally						
	more timely than CCHS data.						
Timing and	CCHS						
frequency of	"Flu shot" module is core content (i.e., collected by all health						
data release	regions in Canada)						
	ongoing telephone survey						
	data released annually						
Levels of	Public health units are encouraged to use the APHEO Core						
comparability	Indicators for population health reporting.						
Targets and/or	Public Health Agency of Canada: 80% for seniors ≥65 and adults						
Benchmarks	<65 years of age with high risk conditions						
Target Source	Public Health Agency of Canada						
Limitations	Self-reported survey data						
	Surveys only those seniors that are community-dwelling, limiting						
	representativeness						
	Data is not from a population registry						
Adjustment	Age and sex standardized for 2011 overall population only for the						
(risk, age/sex	following stratifications (i.e. not chronic condition cohort):						
standardization):	1. LHIN						
	2. Age (12-17, 18-64, 65+) (sex-adjusted only)						
	3. Sex (age-adjusted only)						
	4. Income						
	5. Rural/urban						
	6. Immigrant status (3 definitions)						
	7. Education (restrict to 25+ years of age)						
Guidelines,							
SOPs, Evidence							
for best practice							
Comments							





### Figure 2. Percent of the population aged 65+ reporting having received a flu shot in the past year by LHIN, 2011



Variable	Stratification	Adjusted rate per 100	95% LCL	95% UCL
	Female	68.5	65.15	71.97
Sex	Male	69.94	66.79	73.19
	65-74	61.34	58.13	64.69
	75-84	78.35	75.05	81.76
Age	85+	74.89	66.33	84.26
	Q1	66.76	62.23	71.53
	Q2	70.73	66.87	74.75
	Q3	62.46	56.08	69.37
Income	Q4	72.45	67.42	77.76
quintile	Q5	76.78	71.19	82.69
	rural	67.6	63.65	71.73
Rural/urban	urban/non-rural	69.17	66.53	71.89
	1 Born in Canada	72.89	70.54	75.3
	2 Over 10 years	63.27	58.37	68.47
Immigration	3. 0-9 years	43.18	23.78	72.05
	1 Less than high school	65.21	60.5	70.19
	2 High school			
	graduation	70.51	65.2	76.13
	3 Post-secondary			
Education	graduation	71.77	69.01	74.61

Table1. Percent of the population aged 65+ reporting having received a flu shot in the past year by population characteristics, 2011

\*for calculating the p values the overall rates of the subgroups were used as a reference population.

- In 2011 one third of the population aged 65 and older did not receive the annual influenza vaccination. Over time, since 2001 the rate has varied from 67.8% to 77.9% and was the highest in 2005 and the lowest in 2011. Consistently, the immunization rates were slightly higher in people aged 65 and older with chronic conditions.
- The influenza vaccination rates in the population aged 65 and older for 2011 varied significantly by the age of the population and immigration status. Those aged 75 and older were more likely to be immunized than younger adults and people who were born in Canada had higher immunization rates than those who had been in Canada for 10 or more years. There was no variation in flu vaccination rates by gender, place of residence and education. Population residing in the highest income neighbourhoods had significantly higher vaccination rates compared to the provincial rates.
- The rates varied across the LHINs as well, ranging from 58% in the Toronto Central LHIN to 77% in the Central LHIN.