CIHI Data- What it tells us and how it can be used to drive decision-making

AGHPS November 9, 2022

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Canadian Institute for Health Information





Agenda



- 1. Introduction
- 2. Overview
- 3. OMHRS Operational Reports
- 4. Your Health System; Shared Health Priorities
- 5. Unintended Consequences of COVID
- 6. Schizophrenia Care in the Hospital



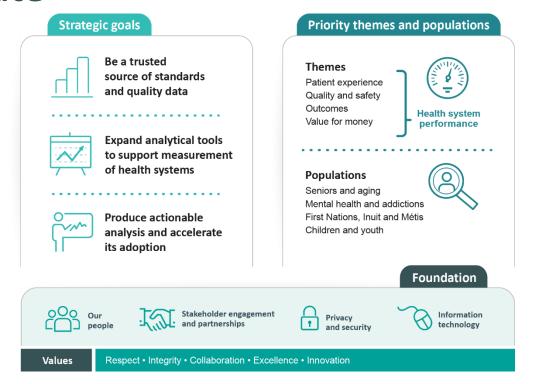
CIHI's mandate

Vision

Better data.
Better decisions.
Healthier Canadians.

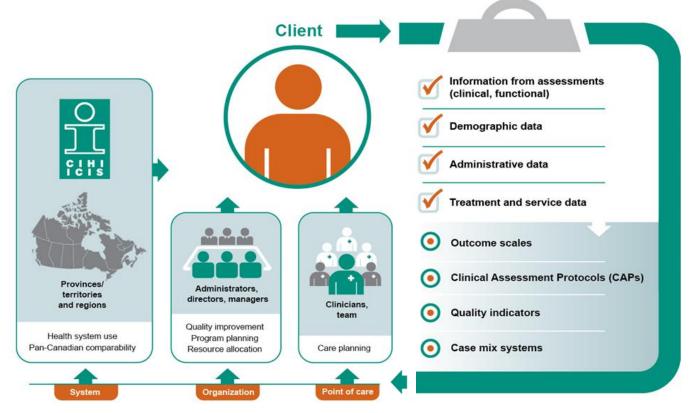
Mandate

Deliver comparable and actionable information to accelerate improvements in health care, health system performance and population health across the continuum of care





interRAI data







The Ontario Mental Health Reporting System (OMHRS)

Implemented in 2005 by CIHI on behalf of Ontario's Ministry of Health and Long-Term Care

Used as the database and reporting system for all RAI-MH data



OMHRS captures about 96% of hospital discharges in Ontario for mental health conditions

Mandated collection and submission of OMHRS data already in place for all discharges from adult MH beds in Ontario so:

- Hospitals have software to collect and submit OMHRS data
- Completing and submitting OMHRS data is integrated into clinical practice/business processes at all Ontario hospitals with designated adult mental health beds
- Additional information collected in OMHRS (HCN, homelessness, sex, date of birth, specific DSM-5 TR codes, etc.) can be used in post data collection analytics
- Ontario MOH and others (ICES) have access to record level OMHRS data submitted to CIHI for analytics



Data to Drive Decision Making

What is data driven decision making?

Data-driven decision-making (DDDM) is defined as using facts, metrics, and data to guide strategic business decisions that align with your goals, objectives, and initiatives.

What are data-driven strategies?

When you employ a "data-driven" approach, it means it makes strategic decisions based on data analysis and interpretation. A data-driven approach enables you to examine and organize the data available with the goal of better serving consumers.



OMHRS Operational Reports



OMHRS Operational Reports

Data Quality SCIPP-**Patient Day**

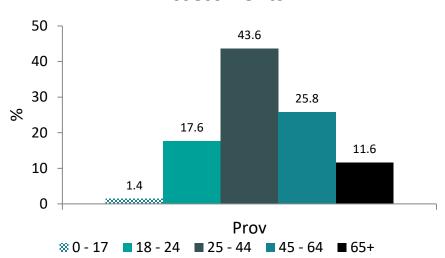
Facility Comparative

Assessment Year-to-date Facility identifiable MH CAPS



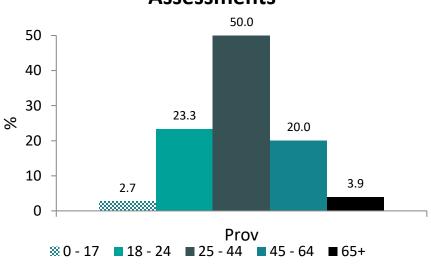
Age at Admission

Age at Admission - Admission Assessments



Total number of Admission Assessments = 44,685

Age at Admission - Short Stay Assessments

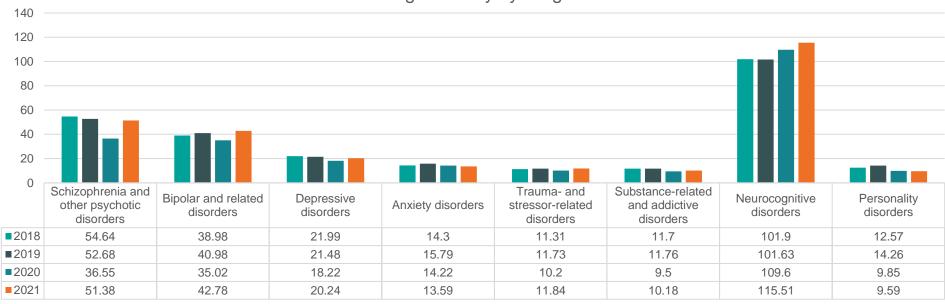


Total number of Short Stay Assessments=19,402



Length of Stay

Median Length of Stay by Diagnosis



■2018 **■**2019 **■**2020 **■**2021

Source

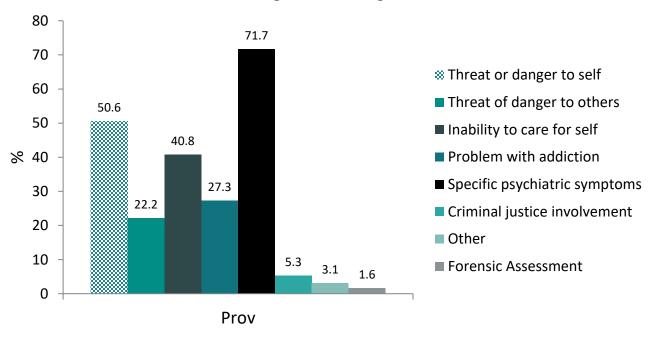
Ontario Mental Health Reporting System, April 1, 2021 to March 31, 2022, Canadian Institute for Health Information.



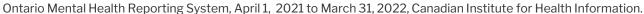
Reasons for Admission

Reasons for Admission - Admission Assessments

All diagnostic categories



Source

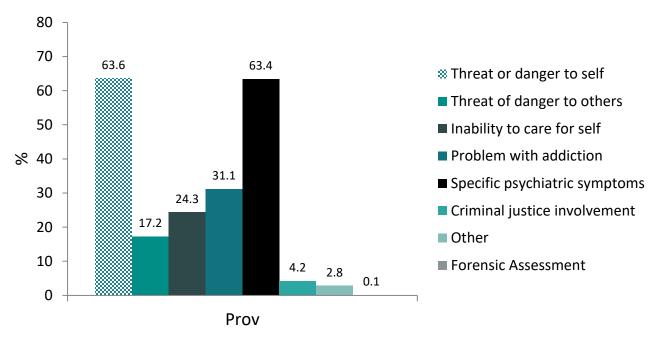




Reasons for Admission

Reasons for Admission - Short Stay Assessments

All diagnostic categories



Source

 $Ontario\ Mental\ Health\ Reporting\ System,\ April\ 1,\ 2021\ to\ March\ 31,\ 2022,\ Canadian\ Institute\ for\ Health\ Information.$



30-Day Mental Health Readmission

30 days or less since last discharge from this facility

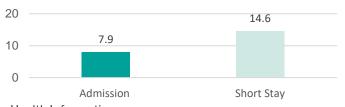
30-Day Mental Health Readmission

Schizophrenia spectrum and other psychotic...



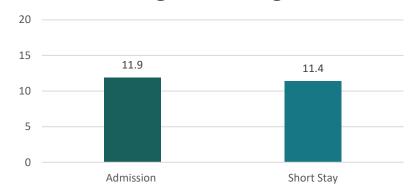
30-Day Mental Health Readmission -

Neurocognitive...



30-Day Mental Health Readmission

All diagnostic categories

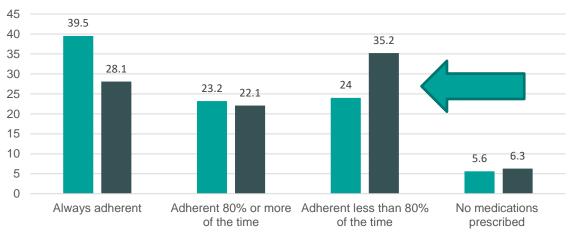






Medication Adherence

Medication Adherence- Admission Assessments



- All diagnostic categories
- Schizophrenia spectrum and other psychotic disorders

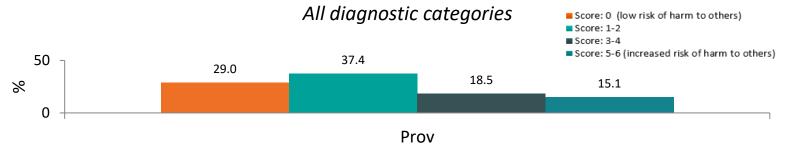
Source

Ontario Mental Health Reporting System, April 1, 2021 to March 31, 2022, Canadian Institute for Health Information.



RHO

Risk of Harm to Others Scale Scores - Admission Assessments



Risk of Harm to Others Scale Scores - Admission Assessments

Schizophrenia spectrum and other

psychotic disorders

33.7

24.4

21.5

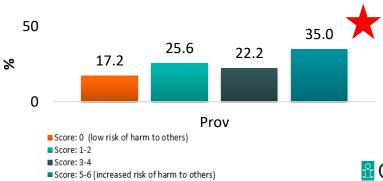
Prov

Score: 0 (low risk of harm to others)

Score: 3-4
Score: 5-6 (increased risk of harm to others)

Risk of Harm to Others Scale Scores - Admission Assessments

Neurocognitive disorders



Your Health System: Shared Health Priorities



Shared Health Priorities Indicators

12 Pan-Canadian indicators include:

Hospital Stays for Harm Caused by Substance Use



• Frequent Emergency Room Visits for Help With Mental Health and/or Addictions.



• Self-Harm, Including Suicide



Wait Times for Community Mental Health Counselling

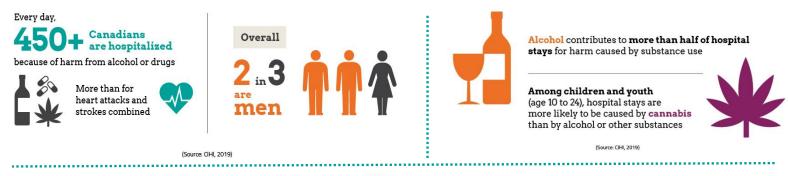


- Navigation of Mental Health and/or Substance Use Services
- Early Intervention for Mental Health and/or Substance Use Among Children and Youth



Indicator reporting

Hospital Stays for Harm Caused by Substance Use — Key findings









hospitalized for harm caused by substance use also have a mental health condition such as anxiety, depression or schizophrenia

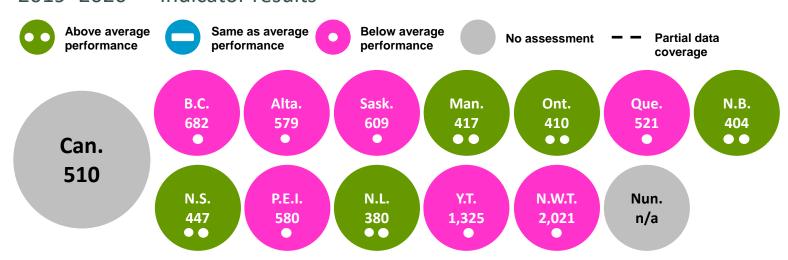
(Source: CIHI, 2019)

Definition: The rate of hospital stays as a direct result of using alcohol, cannabis and other substances.



Indicator reporting (continued)

Hospital Stays for Harm Caused by Substance Use, per 100,000 2019–2020 — Indicator results



Kev links

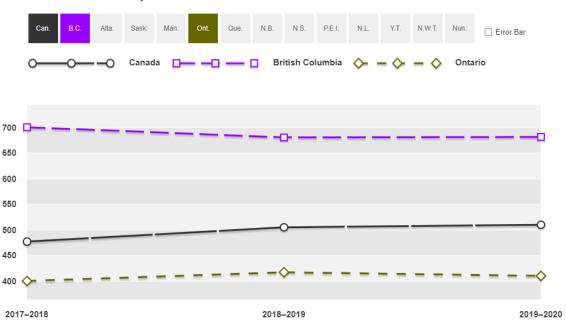
Indicator results with additional breakdowns are available in <u>YHS: In Brief</u>.

More information on the indicator, as well as contextual information, is available in the <u>2019 companion report</u>.



Indicator reporting (continued)

Hospital Stays for Harm Caused by Substance Use, per 100,000 (2017–2018 to 2019–2020) — Trend results



Key link YHS: In Brief.



Frequent Use of the ER

Nearly 1 in 10 Canadians

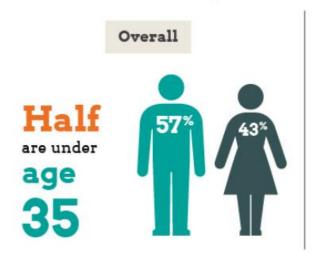
who visit the ER for help with mental health and/or addictions have

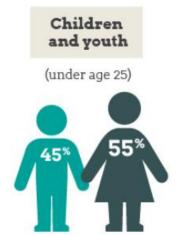




(Source: CIHI, 2019)

Who visits the ER frequently for mental health and/or addictions help in Canada?

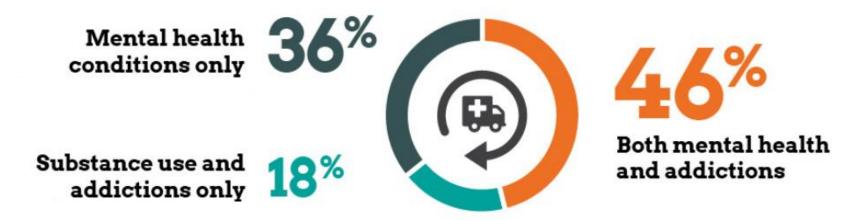




(Source: CIHI, 2019)



What is the reason for frequent use of the ER for help with mental health and/or addictions?



(Source: CIHI, 2019)



Repeat Hospital Stays for Mental Illness



(Source: CIHI, 2020)

Repeat hospital stays for mental illness are



(Source: CIHI, 2020)

Availability and quality of community mental health care vary by health region



with repeat hospitalizations (best)



to

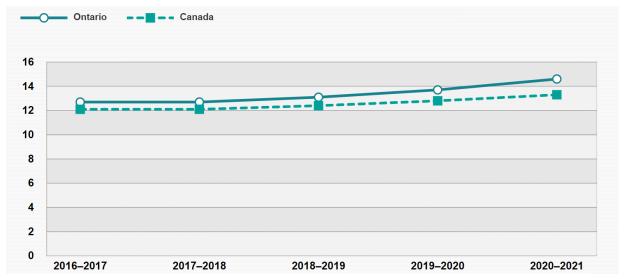
1in 5
with repeat
hospitalizations
(worst)



(Source: CIHI, 2020)



Trend Over Time: Repeat Hospital Stays for Mental Illness (Percentage)



Trend Over Time: Repeat Hospital Stays for Mental Illness (Percentage)

| Comparator ▽ | Indicator results 2016–2017 | Indicator results 2017–2018 | Indicator results 2018–2019 | Indicator results 2019–2020 | Indicator results 2020–2021 |
|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Canada | 12.1 | 12.1 | 12.4 | 12.8 | 13.3 |
| Ontario | 12.7 | 12.7 | 13.1 | 13.7 | 14.6 |

End of table



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SHP Indicators: Overall key messages

- Over time, the SHP indicators will tell a clearer story about access to care across the country, helping to identify gaps in services and to make meaningful changes to improve the experiences of Canadian patients and their families.
- Reporting on each of the indicators will not lead to immediate change. The COVID-19
 pandemic has profoundly impacted these sectors. It will take time for investments
 to improve care at the front lines and to better meet the needs of patients and
 their families.
- Considerable efforts are being made by the provinces and territories to expand coverage in existing data holdings, develop common information standards and explore new data sources for public reporting.
- The results represent a baseline from which change can be measured over time.



Looking ahead: December 2022 release

- 2 new indicators for MHSU, updated results for 4
 MHSU indicators, and a companion report focused on the new indicators
- This public release includes more timely results, region-level reporting, and trend information for several indicators, where data supports.
- Results are reported via CIHI's <u>Your Health System: In</u>
 <u>Brief</u> web tool, along with key message infographics and a brief companion report.
- Trend information is expected for Year 1 and Year 2 indicators, where data supports

Visit the **Shared Health Priorities** page for more information

2 new indicators:

- Navigation of Mental Health and/or Substance Use Services
- Early Intervention for Mental Health and/or Substance Use Among Children and Youth

Updated data for the following access to MHSU services indicators:

- Wait Times for Community Mental Health Counselling
- •Self-Harm, Including Suicide
- •Hospital Stays for Harm Caused by Substance Use
- •Frequent Emergency Room Visits for Help with MHSU

Unintended Consequences of COVID-19

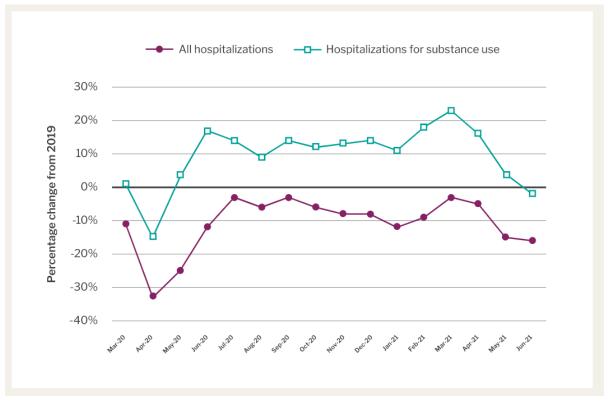


Unintended Consequences of COVID-19

Impact on Harms Caused by Substance Use



Change in hospitalization



Sources



ED visits and hospitalizations for top 4 substances, March to September 2020 compared with March to September 2019

| | ED visits | | | Hospitalizations | | |
|--------------------------------|-----------|--------|-------------------|------------------|--------|-------------------|
| Substance type | 2019 | 2020 | Percentage change | 2019 | 2020 | Percentage change |
| Alcohol | 109,784 | 98,060 | -11% | 42,334 | 44,506 | 5% |
| Opioids | 22,895 | 24,622 | 8% | 10,264 | 10,960 | 7% |
| Cannabis | 15,201 | 16,470 | 8% | 10,023 | 10,524 | 5% |
| Stimulants (excluding cocaine) | 14,909 | 15,709 | 5% | 9,530 | 10,280 | 8% |

Notes

Reflects data from March to September 2020, submitted as of January 1, 2021.

Full regional coverage is available for emergency departments (EDs) in Quebec, Ontario, Alberta and Yukon. Partial regional coverage is available for Prince Edward Island, Nova Scotia, Saskatchewan and British Columbia. Combined, these regions represent about 80% of Canadian ED visits.

Hospitalization data for Quebec was not available at the time of analysis.

Data for 2020-2021 is provisional. See the Notes and limitations section of this report.

Sources

National Ambulatory Care Reporting System, Hospital Morbidity Database and Ontario Mental Health Reporting System, 2018–2019 to 2020–2021, Canadian Institute for Health Information.



Schizophrenia Care



Pay for Quality Initiative for MHA



Health Data Branch Service Announcement

Ontario Mental Health Reporting System (OMHRS) - Resident Assel Instrument – Mental Health (RAI-MH) Update



Canadian Institute for Health Information
Better data. Better decisions. Healthier Canadians.

With more than one million Ontarians experiencing mental health and addictions challenges

prioritized these population to be served under the integrated care agendal and account of the support measurement and performance measurement and addictions.

Hospital Advisory Committee
Mental Health and Addictions Funding Initiative
Monday, November 29, 2021



salth, Ontario Hospital Association (OHA) and Canadian Institute for Health Information (CHII), th the Chairs of the Hospital Advisory Committee's Mental Health Funding initiative, have been alter manually information from mental health facilities on the following quality standards Health Quality Ontario Quality Statements based on the Quality Standard—Schizophrenia: Care

- ent 6: Treatment with Clozapine
- ent 7: Treatment with Long-Acting Injectable Antipsychotic Medication
- ent 10: Follow-Up Appointment After Discharge
- ent 11: Transitions in Care

worked with CIHI to integrate the collection of 5 new data elements into the existing Onl porting System (OMHRS) to standardize the collection of this important quality of care RRs is a valuable tool implemented by CIHI on behalf of the Ministry to standardize the al health clinical and administrative information within a singular reporting framework.

add 5 new mandatory data elements (related to treatment for schizophrenia) to the ONge Assessment, Short Discharge Assessment, and Short Stay Record.

ange is effective April 1, 2022. New validation rules to support this change will only apsubmissions received after this date, and submissions that reference assessments received after date. More information on these changes will follow.

The new data elements will inform evidence-based provincial benchmarks for these interventions and sit the strategies needed to ensure value-based care from hospital to community for patients with conditions to mental health and addictions.

Please share with the relevant staff within your organization.

- For questions related to the Service Announcement, please contact AskHealthData@ontario.ca
- For questions on the Mental Health Funding initiative, please contact <u>HSF@ontario.ca</u>
- For Guidance on completing assessments, please contact <u>specializedcare@cihi.ca</u>

Health Data Support Team



Quality Statement 6: Treatment With Clozapine

Quality Statement 7: Treatment With Long-Acting Injectable Antipsychotic Medication

Quality Statement 10: Follow-Up Appointment After Discharge

Quality Statement 11: Transitions in Care

Health Quality Ontario

Let's make our health system healthier

O A Ontario



New Data Elements for OMHRS FY2022-2023

F20.9 Schizophrenia
Unspecified

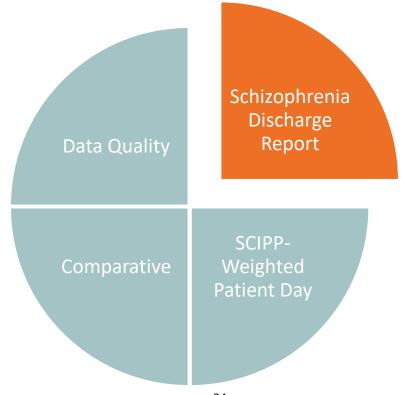
F25.0 Schizoaffective Disorder,
Bipolar

F25.1 Schizoaffective Disorder

- Q2a. Psychiatric Diagnosis (existing)
- X160. Schizophrenia Primary Diagnosis
- X161. Long-Acting Injectable Medication
- X162. Treatment Resistant
- X163. Treatment with Clozapine
- X164. Care Plan Sent



New OMHRS Operational Report



Data collection began April 1, 2022



Schizophrenia Discharge Report





Discharge Assessments 9,537



Schizophrenia Patients 2,051

• Age 25-44: 70%

Average Age: 37

Male: 75%

• Employed: 11%

• Homeless: 8%

Discharged to private residence: 75%

Median LOS: 16 days

Average LOS: 41 days



Quality Indicators: Schizophrenia Discharge Report



Prescribed Clozapine 45%



Prescribed Long
Acting
Injectable
54%

5.8% Prior to admission

48.5% During hospital stay



Treatment Resistant 18%



Care Plan Available 75%

Revised November 25,2022 Source



New Supporting Documentation



Operational Reports, Finding Your Way Aro



Get started!

- Navigate to CIHI's home page at www.cihi.ca.
- Click Log In at the top of the page.
 Note: If you don't have a CIHI username and pass page) and follow the instructions. If you need help,



Enter your CIHI username and password, then click
 Note: If you don't have a CIHI username and pass
 and follow the instructions. If you need help, send.



Schizophrenia Care in I Frequently Asked Ques

New data elements for OMI-

In consultation and collaboration with the Chrain Ministr Canadian Institute for Health Indomation (CIHI) has add qualify statements based on the Qualify Standard Schize elements have been added to the Resident Assessment Mental Health Reporting System (OMHRS) to assist in of of schizophrenia care. These new data elements will tak and will replace the document dated for March 2021.

Background

1. What are Quality Standards?

Quality Standards are sets of specifications that outline to best practices. They focus on conditions or topics where

In 2016, Health Quality Ontario developed <u>Schizophrenic</u> Quality Standards for mental health conditions. A panel of Committee developed 11 quality statements for adults w

In 2018, Health Quality Ontario developed <u>Schizophrenii</u> Standard focuses on standardized care provided in the c care, rehabilitation, care in correctional facilities, and cor

2. Why do the new data elements focus on persons or schizoaffective disorder?

Based on previous system-level analyses completed by diagnosed with schizophrenia account for the largest pro



OMHRS

Ontario Mental Health Reporting System Guide to Interpreting Quarterly Schizophrenia Discharge Reports

2022-2023

Available for download on the CIHI eStore and the operational reports page.







Education



980E – Introduction to Using Your OMHRS Data (eLearning)

- 1151E-RAI-MH: Beginners 1 Introduction to the Assessment (eLearning)
- 1152E-RAI-MH: Beginners 2 Completing the Assessment (Part 1)
- 1153E-RAI-MH: Beginners 2 Completing the Assessment (Part 2)
- 1154E-RAI-MH: Beginners 3 Outcome Scales and CAPs (eLearning)



Contact us

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