

## Advancing the Learning Health System in Ontario

#### **Part 2: Analytics and population insights**

**HSPN Monthly Webinar** 

May 28, 2024

#### Welcome & thank you for joining us!

Please let us know who you are by introducing yourself (name & OHT or other org)

➢Open Chat

Set response to <u>everyone</u> in the chat box





#### Land Acknowledgement

We wish to acknowledge this land on which the University of Toronto operates. For thousands of years it has been the traditional land of the Huron-Wendat, the Seneca, and the Mississaugas of the Credit. Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.



#### LEARNING HEALTH SYSTEM ACTION FRAMEWORK

SOURCE: Institute for Better Health-Trillium Health Partners (2023).

HSPN 🛞



- Health System Affordability
  Integrated Care Experiences
- 3. Health Workforce Sustainability
- 4. Population Health & Quality Care



#### Learning Gear 1: Analytics & Population Insights

Evidenci Analytics & Population tient, Caregiver & ovider Co-desig Evaluation, Feedback & Adaptation **Analytics & Population** Insights

**Description:** Using comprehensive data (quantitative & qualitative) and advanced analytic approaches on populations served to understand health service needs, gaps, inequities, preferences & aspirations.

Sample Questions: Where are system gaps & what's driving them? Where are the inequities? What priorities are we addressing (or what problems are we solving)? What are patient, caregiver, community preferences & aspirations?

Health System Affinities: business intelligence functions, data decision & analytics supports, program planning groups, clinical informatics, patient and family advisory councils, etc.



#### Poll 1

1. Have you joined us for an HSPN webinar previously? (Single Choice)

71/71 (100%) answered

Yes. I have participated previously	(55/71) 77%		
No. This is my first event	(16/71) 23%		



#### Poll 2

1. What sources of data have you used to understand your OHT population? (check all that apply) (Multiple Choice)

52/52 (100%) answered

vinistry of Health Data Reports	(29/52) 56%
Health System Performance Network Data Reports	(18/52) 35%
Ontario Health Dashboard	(34/52) 65%
ocal Hospital Data	(22/52) 42%
Primary Care Data	(26/52) 50%
Public Health Data	(21/52) 40%
Surveys (Patient, Population or Provider)	(31/52) 60%
Other (let us know in the chat)	(6/52) 12%





#### Today's event LHS Analytics and Insights





Dr. Matthew Meyer Senior Director of Population Health Management London Health Sciences and London-Middlesex OHT



**Emmi Perkins** Director of Transformation **Guelph-Wellington OHT** 



Dr. Sara Shearkhani Scientist Michael Garron Hospital and East Toronto Health Partners

Host

Dr. Walter Wodchis Principal Investigator HSPN



Sarah-Grace Bebenek **Project Manager** South Georgian Bay OHT

## AGENDA

Intro to using analytics from the HSPN

and more in-depth OHT examples:

- 1. Understanding our population needs : Middlesex London
- 2. Understanding our neighbourhoods: East Toronto
- 3. Using patient experience data: South Georgian Bay
- 4. Going deep with linked data: Guelph-Wellington





## **Understanding our population needs : Middlesex London**

Presenter: Matt Meyer

May 28, 2024



# Advanced analytics and Population Insights

Experiences of a growing OHT

May 28<sup>th</sup>, 2024



#### Outline

- Brief introduction to the MLOHT and our philosophy
- Illustration of how we've used population data
- Key insights
- How we've supplemented the numbers with other information



# What is our Middlesex London Ontario Health Team's (OHT) Shared Purpose?

#### PATIENTS/CLIENTS/CARE PARTNERS & PROVIDERS Improving our healthcare experience together -

IMPROVEMENT, ACTION-ORIENTED COLLABORATION, CO-DESIGN, CO-CREATION

#### where people are heard, care is connected, and

PATIENTS/CLIENTS/CARE PARTNERS & PROVIDERS WEASK AND WE LISTEN, BECAUSE WE CARE SEAMLESS, DIGITAL HEALTH ENABLERS, CARE MANAGEMENT

#### whole health is possible for everyone

PHYSICAL, SPIRITUAL, MENTAL, EMOTIONAL, ENVIRONMENTAL, SOCIAL, CULTURAL, ECONOMIC EQUITY, INCLUSION, DIVERSITY



Slides shared with the MLOHT (then Western OHT) Coordinating Council in 2019

Our attributed population (MoH data unless otherwise stated)

• **514,024** people

What We Know

- 92,045 (17.9%) >65yrs
- 199,332 (38.7%) >50
- 23,011 Frail Adults >65 (Canadian Frailty Network projection)
- 148,784 (28.9%) live outside of London
- 9,252 (1.8%) Francophone (SW LHIN)
  - Arabic most common language besides English
- 87,384 (17%) visible minority (SW LHIN)
- 88,412 (17.2%) living in poverty (SW LHIN)

## What We Know

Our Indigenous Population (SOAHAC)

- 17,108-22,155 Indigenous adults in London (2x census)
  - ~ 26% >45 yrs
- 51% in London reported 1+ chronic condition
- 28% Indigenous adults (20 years +) in London were experiencing multimorbidity (2+ chronic health conditions)
- 15% diagnosed with diabetes by their provider
- 7% COPD
- 6% Heart Disease
- 17% High Blood Pressure
- 16% Arthritis
- 90% live in poverty (below LICO)

## What We Know

MoH OHT Data: Health Conditions present:

- COPD 6,389
- Heart Failure 4,836
- Chronic Disease requires further assessment

Acute care (total population)

- 29,083 patients admitted
- Acute days 221,672
- ALC days 23,624

Inpatient Rehabilitation

- 1,019 patients
- Rehab days 33,589

Complex Continuing Care

- 495 patients
- 33,823 days

Long-Term Care

- 3,284 residents
- 757 people on wait list

## What We Know

#### OHT Top 10 HPG Ranked by Total Cost

Top	Тор	HPG	HPG Total	OHT
	HPG	Population	Cost	Cost/User
		A	B	C+8/A
1.1	Q007	3,883	\$147.9M	\$38,100
2	5001	2,596	\$132.3M	\$50,974
3	E004C	1,685	\$50.7M	\$30,061
4	R002	1,302	\$43.9M	\$33,705
5	0009	1,538	\$38.7M	\$25,142
6	J008C	1,281	\$34.3M	\$26,747
7	1002C	747	\$33.2M	\$44,469
8	P002A	1,155	\$32.2M	\$27,918
9	Q002	722	\$32.2M	\$44,534
10	J052A	15,732	\$31.5M	\$2,001

#### Legend for Top 10 HPGs' Description

- 1 Dementia (incl. Alzheimer's) w sig comorbidities
- 2 Palliative State (Acute)
- 3 Heart failure with CAD/Arrhythmia w sig comorbidities
- 4 Metastatic Cancer w sig comorbidities
- 5 Delusional Disorder (incl. Schizophrenia) w sig comorbidities
- 6 Diabetes/hypoglycemia with PVD/Oth Chronic Vasc Dx w sig comorbidities
- 7 Skin Ulcer (incl. Decubitus) w sig comorbidities
- 8 Sepsis w sig comorbidities
- 9 Mental Disorder Resulting from Brain Injury or Other Illness w sig comorbidities
- 10 Diab/hypoglyc w/o Chronic Kidney Dis or PVD/Chronic Vasc Dx w/o sig comorbidities

- 8/10 include sig comorbidities
- Total spend on these 8 = \$413.1M



LHSC Decision Support data from IDS (16/17-18/19)

- Residents of Middlesex County >40 yrs admitted to hospital with 1 of 5 Chronic Conditions (CHF, COPD, Diabetes, Cancer, Ischemic Heart Disease)
- Average annual values
  - Patients admitted to hospital 7,934
    - 98% LHSC, SJHC, MHA
  - Admissions/patient 1.4
  - Conservable bed days (19,067)
  - ALC bed days (10,640)

## Key lessons – by the numbers

- 514, 024 Our population consists of people, yet we don't know who they are
- 6,389 COPD, 4,836 CHF– Population-based prevalence estimates suggest closer to 30,000 and 10,000
- Approx. 65,000 the estimated number of people in our population who don't have Primary Care



#### Outline

- Brief introduction to the MLOHT and our philosophy
- Illustration of how we've used population data
- Key lessons learned
- How we've supplemented the numbers with other information



## **Population Selection Process**

OHT signing partners were emailed about this process on August 1<sup>st</sup>

**August 1-7<sup>th</sup>** Partners asked to communicate with staff, patients, and partners about potential populations

**August 8-14<sup>th</sup>** Dr. Matthew Meyer and Dr. Shannon Sibbald met with interested partners

**August 15<sup>th</sup>** The Population Health Coalition met to select up to 3 populations for further exploration.

**August 16-28<sup>th</sup>** The Population Health Coalition to work with partners to better describe the proposed populations

August 29<sup>th</sup> Final proposals brought to the Coordinating Council for decision.

## Results

- 7 population suggestions were received
  - 1 Parents and infants up to 12 weeks postnatal (4<sup>th</sup> trimester), especially high-risk and marginalized
  - 6 Older Adults with Chronic Disease requiring system-level care coordination/navigation

## **Population Health Coalition**

- Community researchers, system experts and patient/caregiver representatives with no formal affiliation to any of the partner organizations. They represent the following groups:
  - Schulich School of Medicine and Dentistry (Departments of Family Medicine, Epidemiology and Biostatistics, Public Health)
  - Western's Indigenous Health Laboratory
  - IVEY's International Centre for Health Innovation
  - The Centre for Research on Health Equity and Social Inclusion
  - Patient and Caregiver advocacy groups
- Met August 15<sup>th</sup>
- Recommendation: Consider Older Adults with Chronic Conditions requiring system-level care coordination/navigation

#### **Population Recommendation**

- 1. Who will you be accountable for at Maturity?
  - Our attributed population (514,024 people)
- 2. Who will you focus on in Year 1?
  - Older adults with Chronic Conditions in need of system-level care coordination and navigation
  - Sub-populations:
    - High-risk patients with COPD and/or CHF
    - Older adults at risk of institutionalization
- 3. Are there specific equity considerations within your population?
  - Francophone, Indigenous, Visible minorities, Non-ESL families, New comers to Canada, Rural residents, People living in poverty or homeless

### INVOLVING PATIENTS, CLIENTS & CARE PARTNERS

Development of a Patient/Client Care Partner Council

Meaningful engagement of patients/clients and care partners in all aspects of work



Development of a 'Network' of patients/clients, care parents and providers



## PATIENT, CLIENT, CARE PARTNER MATRIX

#### PATIENT & CARE PARTNER GROUPS

#### **PROVIDER GROUPS**

- Urban and rural
- Immigrants and newcomers
- Various age categories
- Various genders
- Various sexual orientations
- Various racial or ethnic groups
- Various languages
- · Various income level
- · People with disabilities
- People who act as care partners
- · People without access to personal transportation
- People without access to care partners
- · People with various states of disease severity

- Primary Care
- Community Care
- Addiction and Mental Health
- Home Care
- Acute Care
- Rehabilitation
- Long-Term Care
- Palliative care
- Emergency Medical Services
- Social Services
- Emergency Department
- Pharmacy

#### EMERGING THEMES: CHALLENGES

Through our interviews with patients, care partners, and providers, we identified system challenges that our Ontario Health Team and partners can build solutions for, including:

Шů	Access to and Awareness of Services	Patients and care partners are not regularly being referred to available community supports and programs. Providers have difficulty keeping track of all available services and programs in our community.
<b></b>	Care and Action Planning	Care plans (documents that include important health and social information about the patient, including goals and next steps in care) are not always provided to patients. Providers found that accessing key information about patients can be time-consuming and challenging.
<b>'</b> ®'	Care Partner Support	Care partner (family/friend caregiver) needs are not always considered in care planning and management for the patient. Care partners want more education and information.
5 <b>6</b> 7	Case Management and Coordination	Care coordination and navigation is essential for many patients, but is not always available.
ģ <sub>ī</sub> ņį	Communication Between Providers	Providers don't always have access to the information they need to support patients and care partners, and sometimes information is difficult to find. Providers find it challenging to connect with other colleagues in the system to discuss a patients' care.
<b>%</b>	Early Diagnosis Process	Patients are regularly diagnosed only after a significant health event. Providers need tools to identify patients earlier who may have Chronic Obstructive Pulmonary Disease and/or Congestive Heart Failure
4	Promoting Self-Management	Patients value programs and education that can help them manage their own care, but some patients do not find out about these programs early enough.
$\star$	Patient-Centred Care	Providers need to understand individual patient circumstances, preferences, and home environment in order to plan their care effectively.
Ø	Goalခ of Care	Patient goals of care need to be regularly assessed, incorporated into care plans, and communicated across care teams.
<u>к</u> ав.	Sustained Care Relationship	Patients, care partners and providers talked about the importance of establishing strong care relationships as patients move through the system.

#### **Our Decision Tool**

- At the MLOHT we have adopted a decision tool for project/initiative selection that includes request for description/context and alignment with:
  - Quintuple Aim
  - Purpose
  - Co-design themes
  - Prioritized populations
  - Scalability
  - UN sustainability goals
  - Collaboration



#### Takeaways

- You can learn a lot from the numbers
- You can also learn a lot from the absence of numbers
- Context matters





# Thank you!

For more information, please contact Matthew.Meyer@LHSC.on.ca





A review of HSPN data and analytics for OHTs

#### **1 Powerpoint Presentation & 3 Excel Spreadsheets**

#### 

#### HSPN OHT Improvement Indicators & Population Segmentation

"Your OHT" Results

January 2024

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3					
4	value	2021/22	2022/23		
5		2021/22	2022/23		
6		N=14,156,738	N=13,965,771		
7	Palliative	8,218 (0.1%)	8,597 (0.1%)		
8	Major Mental Health	381,046 (2.7%)	362,581 (2.6%)		
9	Major Cancer	509,130 (3.6%)	513,388 (3.7%)		
0	Major Chronic	27,257 (0.2%)	939 (0.0%)		
1	Major Acute	278,667 (2.0%)	280,809 (2.0%)		
2	Moderate Chronic	213,714 (1.5%)	222,081 (1.6%)		
3	Other Cancer	927,760 (6.6%)	904,366 (6.5%)		
4	Moderate Acute	1,469,751 (10.4%)	1,451,664 (10.4%)		
5	Obstetrics	247,508 (1.7%)	259,199 (1.9%)		
6	Major Newborn	1,058,208 (7.5%)	1,081,169 (7.7%)		
7	Other Mental Health	313,392 (2.2%)	298,342 (2.1%)		
8	Minor Chronic	4,956,515 (35.0%)	4,467,750 (32.0%)		
9	Minor Acute	1,452,831 (10.3%)	1,405,072 (10.1%)		
20	No Health Conditions	77,538 (0.5%)	0 (0.0%)		
21	Non-users	770,391 (5.4%)	871,009 (6.2%)		
2	Healthy Newborn	1,464,812 (10.3%)	1,838,805 (13.2%)		
3					
24					
25					

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#### **Spider Diagrams for Total Population Indicators**





#### 2022/23 Rate of hospitalization for ambulatory care sensitive conditions (ACSC) per 100k by Material Deprivation Quintile

ACSC Hospitalization 2022/23



Horizontal axis presents rate of hospitalization for ambulatory care sensitive condition per 100k:

Ontario average indicated in figure footnote.

with no events, small counts < 5, or with < 30 patients in Notes: denominator.

\*Rate of ACSC hospitalization per 100,000 person years is shown at the end of the bar.

\*Data are suppressed for segments with small counts.

\*Overall rate per 100,000 person years in Ontario = 300.1.





#### 2022/23 Rate of ED Visits best managed elsewhere by Material Deprivation Quintile

ED Visits best managed elsewhere 2022/23



Horizontal axis presents rate of ED visits per 1000 person years that could be treated in alternative primary care setting.

Ontario average indicated in figure footnote.

IC/ES



#### 2022/23 Rate of ED Visits best managed elsewhere by Primary Care Model

ED Visits best managed elsewhere 2022/23 Ontario Not Rostered 11.0 CCM 7.3 5.5 FHG CAP (FHO/FHN/Other) 8.3 15.9 FHT 15 5 10 0 Blank rows represent segments Rate (per 1,000 person years)

Horizontal axis presents rate of ED visits per 1000 person years that could be treated in alternative primary care setting.

Ontario average indicated in figure footnote.

IC/ES

with no events, small counts < 5, or with < 30 patients in denominator.

POPULATION SEGMENT

\*Rate of ED visits per 1000 person years is shown at the end of the bar. \*Data are suppressed for segments with small counts.

\*Overall rate per 1000 person years in Ontario = 10.1.



Notes:
#### 2022/23 ALC Days (percent of acute days) in acute hospitals by CIHI Population Grouping Methodology

ALC Days 2022/23



#### Notes:

\*Proportion of inpatient days designated as ALC is shown at the end of the bar.

\*Data are suppressed for segments with small counts.

\*Overall ALC Days in Ontario = 18.8%.



Horizontal axis presents total inpatient days:

- Bright green indicates ALC days;
- Dark blue represents non-ALC inpatient days;
- Percentage to the right is the proportion of inpatient days designated as ALC.
- Ontario average indicated in figure footnote.

IC/ES

#### 2022/23 ALC Days (percent of acute days) in acute hospitals by BC Matrix Segment



ALC Days 2022/23

Horizontal axis presents total inpatient days:

- Bright green indicates ALC days;
- Dark blue represents non-ALC inpatient days;
- Percentage to the right is the proportion of inpatient days designated as ALC.
- Ontario average indicated in figure footnote.

IC/ES

Blank rows represent segments with no events, small counts < 5. or with < 30 patients in denominator.

Other Inpatient Days ALC Days

#### Notes:

\*Proportion of inpatient days designated as ALC is shown at the end of the bar.

\*Data are suppressed for segments with small counts.

\*Overall ALC Days in Ontario = 18.8%.



Percentage of screen-eligible patients (women 23-69 yrs of age) up to date with Cervical Cancer Screening (Papanicolaou/Pap tests) on March 31, 2023 by Material Deprivation Quintile





Horizontal axis shows the number of women 23-69 years

- Bright green indicates number of women not screened;
- Dark blue represents number of women screened;
- Percentage to the right is the proportion of each segment screened.
- Ontario average indicated in figure footnote.

IC/ES

#### Notes:

\*Proportion of segment screened is shown at the end of the bar. \*Data are suppressed for segments with small counts. \*Overall proportion screened in Ontario = 56.0%.



Percentage of screen-eligible patients (women 52-69 years of age) up to date with a Breast Cancer Screening (Mammogram) on March 31, 2023 by Primary Care Model



Horizontal axis shows the number of women 52-69 years:

- Bright green indicates number of women not screened;
- Dark blue represents number of women screened;
- Percentage to the right is the proportion of each segment screened.
- Ontario average indicated in figure footnote.

IC/ES

#### Notes:

\*Proportion of segment screened is shown at the end of the bar. \*Data are suppressed for segments with small counts. \*Overall proportion screened in Ontario = 62.3%.



### Central OHT Evaluation Team

**Co-Leads** 



Dr. Walter P. Wodchis



Dr. Kaileah McKellar



Dr. Gaya Embuldeniya



Trisha Martin



Chris Bai



Vijay Kunaratnam



Nusrat S. Nessa



**Emily Charron** 



Priyanka Gayen



Victor Rentes

HSPN 🏈

### Poll 3

1. What type of information have you used to choose priority populations? (check all that apply) (Multiple Choice)

41/41 (100%) answered

Local knowledge and beliefs (perceived issues)	(25/41) 61%
Population Prevalence	(28/41) 68%
Cost burden (total spending)	(10/41) 24%
Quality of care indicators (performance gaps)	(27/41) 66%
Patient experience	(22/41) 54%
Other (let us know in the chat)	(4/41) 10%







### **Understanding our neighbourhoods: East Toronto**

Presenter: Sara Shearkhani

May 28, 2024



#### East Toronto Health Partners

### **Data for Improvement**

A collaborative effort to improve cancer screening rate in East Toronto



# OHT cQIP Indicators & Population Segmentation





### It takes a community. We are #OneEastToronto





\*See a full list of ETHP members at ethp.ca/partner-organizations

#### East Toronto Health Partners (ETHP)

- Group of 100+ community, primary care, home care, hospital and social services organizations in East Toronto working together to create an integrated system of care across our communities
- Patients, family members and caregivers are partners in every aspect of the development of ETHP, working together to improve the way East Toronto residents find and get care close to home
- Together, we are East Toronto's Ontario Health Team



### East Toronto: Who we serve





and the second s Park Thorncliffe Park **Clairlea-Birchmount** O'Connor-Parkview TRADER FOR THE OWNER, Old East York advie North Woodbine-Lumsden Danforth - East York Taylor-Massey Oakridge ayter Estates Danforth Danforth Birchcliffe Blake Cliffside North Jones East End-Danforth Woodbine Riverdale Corridor reenwood Coxwel The Beaches South Riverdale of a last title Lake Ontario Legend East Toronto Network 0.5 2 Kilometres ----



### **Rapid Cycle Evaluation**













### Data for Improvement





## **Cancer Screening**









Population Segmentation Co-design



### **Data for Improvement**









East Toronto Health Partners



### **Data Knowledge Translation**





### Pickleball!









## Pickleball in my Community Centre /







**Health Partners** 

### What is data?



- Information, such as facts and numbers, collected to be examined and considered and used to help decisionmaking
- Quantitative and qualitative
- Data represents people's encounters with the care system
- By the time we have access to data, conduct our analyses, and discover trends, people have already lived through those experiences.



## Data for Improvement

### **Key Principles**

- Co-design
- Understanding the data
  - What is data?
  - Tell a compelling story using data
  - Facilitate participants to draw connections to their lived experience
- Understanding the approach
  - Simplify
  - Explain complex concepts using simple visualizations



**Health Partners** 



#### Summary of the Key Massages

- Challenge:
  - The cancer screening participation has decreased during COVID19
  - While participation is increasing, there are still opportunities for improvement
- **Aim:** We would like to co-design strategies to increase the cancer screening participation
  - One size does not fit all- different strategies are needed for different populations
  - We need to identify:
    - Different patients/clients populations with lowest cancer screening rate
      - Those who are relatively healthy (unattached; nonusers)
    - Different neighborhoods with lowest cancer screening rate
      - Priority neighborhoods



## **Co-designing Interventions**

- 2 workshops focused on data, quality improvement, evaluation
- Use the knowledge and expertise in the community
- Partnership with external partners (cancer screening)
- MaRS Innovation Challenges:
  - plans to expand an existing community health ambassador program to educate target populations about colorectal cancer. This approach also incorporates bot technology to identify eligible clients and send screening reminders to those with a primary care physician.



### Poll 4

<ol> <li>Who have you involved in interpreting data? (check all that apply) (Multiple Choice)</li> </ol>		
27/27 (100%) answered		
OHT performance management or data team	(20/27) 74%	
OHT leadership group/collaboration council/governan	(17/27) 63%	
Patients and family (e.g. patient advisory group)	(16/27) 59%	
Community (public consultations)	(4/27) 15%	
Provider groups (e.g. primary care, home care, etc)	(16/27) 59%	
Other (let us know in the chat)	(1/27) 4%	



### **Discussion Topic**

 What is your biggest barrier to using data for population insights? (use "-" as leading text in the chat. E.g. "- no access")

2. What is your biggest enabler for using data for population insights? (use "+" as leading text in the chat. E.g. "+ Business Intelligence team")







### **Using patient experience data: South Georgian Bay**

Presenter: Sarah Grace Bebenek

May 28, 2024



## South Georgian Bay Patient Experience Survey

Sarah Grace Bebenek, SGB OHT



### **Objectives**

- Overview of the SGB OHT
- Understand the background behind the Patient
   Experience Survey
- Review a summary of survey results
- Understand how these results have informed the work of the SGB OHT PFAC and the broader OHT





### 2022 Patient Experience Survey Background



#### Step One

SGB OHT PFAC reviewed the HSPN Survey and recommended it to be used as a tool to evaluate the patient experience in South Georgian Bay, as a baseline to inform future work

#### Step Two

Survey distribution list developed based on data collected from the South Georgian Bay community EMR. Those who had a primary care appointment in the last two years were included in the survey distribution.

#### Step Three

All patients with an email recorded in their chart, and consent provided, were emailed the survey link through the secure Ocean platform, via the SGB OHT license. A random sample of those with no email were mailed a copy of the survey with a return envelope

#### Step Four

Collect survey results from HSPN, and meet as a PFAC to explore how we can work together to improve patient experience in South Georgian Bay



### 2022 South Georgian Bay Survey Responses



SURVEYS EMAILED SECURLY THROUGH OCEAN SURVEYS SENT BY MAIL TO THOSE WITH NO EMAIL

350

6018 SURVEY ENTRIES/CLICKS





## Planning for the Second Patient Experience Survey



- After receiving the results from the 2022 Patient Experience Survey, the PFAC was engaged to review the survey results and provide feedback to be incorporated into the next survey.
- The SGB OHT worked with HSPN to add customized questions to the survey to reflect localized services.
- Patients who accessed unattached services such as cancer screening clinics were included in the survey distribution list for 2023.



## 2023 Survey Responses

### 35,000+

SURVEYS EMAILED SECURELY THROUGH OCEAN **350** SURVEYS SENT BY MAIL TO THOSEWITH

**NO EMAIL** 

3000+

COMPLETED SURVEY RESPONSES RECEIVED



## Patient Experience Survey Outcomes

#### Survey Themes

- How to help support patients who are marginalized/vulnerable
- Assessing the patient experience for those with no family doctor or nurse practitioner
- Access to services/care
- Patient/caregiver involvement as a member of the care team
- Use of digital tools to support care
- Understanding the demographics of our population

#### Actions

- SGB OHT Clinic for unattached population
- Development of a patient handbook
- Furthering patient and caregiver advocacy work
- Patient tools to support use of digital tools
- Improving accessibility to communications around services
- Data to inform SGB OHT decision making and resource allocation



## Questions?


### **Discussion Topic**

How are you engaging with patients/family/caregivers and/or community in understanding patient needs or priorities?





### Going deep with linked data: Guelph-Wellington

Presenter: Emmi Perkins

May 28, 2024

## Advancing Primary Care-Based Population Health Management in Guelph Wellington OHT

May 2024





# **Our Story**

- ~ 95% of primary care physicians practice in team-based models – 5 Family Health Teams, 1 Community Health Centre
- All primary care physicians use the same EMR (albeit unique, separated instances)
- Relatively high primary care
  attachment rate
- Champions for improving data









### **Patient Scenario**

Jane's Care Team Pre-Integrated Patient Care Team (IPCT)



# Jane's Integrated Patient Care Team (IPCT)

Jane experiences a single care team of dedicated, integrated providers who are collectively dedicated and accountable to meet all her care needs. Jane is a central member of her care team.

### Comprehensive primary care including:

Palliative care



In-home service delivery

MH&A



Acute care

Care coordination

Housing, etc.

Integrated Documentation, Harmonized Privacy **Policies & Practices** 



Guelph

Wellington Ontario Health Team

### Integrated Health Systems

**Transition from Health Conditions to Population-Focused** 





# **GW OHT Approach to Segmentation**

#### Integrated Care for Full Attributed Population



#### Segmenting Based on Complexity of Needs

- The CIHI Population Health Grouper methodology was chosen to segment each IPCT population. This is done via IDS at the team, physician and patient level.
- Each physician's roster is segmented according to the most complex/high users, medically complex/high risk, moderate/rising risk and healthy.
- The complexity of a person's care needs change over time so should the intensity of their care.



### **The Problem**

- Primary care data is not easily accessible, and therefore, often missing from system-level, population health analyses.
- Available data is disease-specific and at the OHT/neighbourhood level. Segmentation based on holistic complexity at the patient and provider level was needed.
- The solution: Invest in Integrated Decision Support (IDS)







### Our Investment in Population Health Segmentation

Guelph Wellington (GW) OHT acute and post-acute hospitals, home care, community health centres, and public health all shared into IDS when the GW OHT was created.

#### GW OHT has invested in:

- The development and annual costs for an EMR (Telus) extraction tool/report to enable the contribution of primary care data to IDS
- CIHI Population Health Grouper license
- IDS on-boarding fees for early adopter primary care sites/physicians
- IDS on-boarding fees for CMHA WW
- Annual IDS license fees are paid by the provider/organization
- Other partners are considering the contribution of their data to IDS





## **Benefits of IDS Data**

**IDS combines data from multiple health system sectors** to enable a comprehensive population health planning and management approach.

This allows OHTs to understand both the overall health of their population and the health status of individual patients.















СНС



Ontario-Marginalization



Population and Geography





# **Benefits of IDS Data**

#### **Clinical Value**

#### Health Assessment and Targeted Interventions

IDS data can be used to identify/prioritize patients on a physician's roster who are most complex/highest risk and enables clinicians to target prevention and self-management interventions to those who are less complex/healthy. **Organizational Value** 

#### Risk Stratification and Development of Equitable Models of Care

IDS data enables the segmenting of patients according to the population health triangle and the subsequent development of care models that equitably distribute available resources across the rostered population (e.g., according to complexity of need).

#### **System Value**

#### Population Health Management/ Quintuple Aim

IDS data enables collaborative leadership/shared decision-making regarding resource allocation to optimize health and well-being and equitable outcomes for an attributed population.





## Considerations

- Variable HIC models across primary care teams (e.g., FHT is the HIC in some, physicians are the HIC in others). HIC level agreement is required in to order to share primary care data with IDS
- Costs
- Privacy Monitoring for PHIPA compliance





### **IDS in Action** Step 1: Segmentation by Complexity



Palliative 1

Using the CIHI Population Health Grouper, the most complex clients' health profile on each primary care physician roster are identified and then validated via a chart review by the team and/or by a discussion with the physician.









# **IDS in Action**

#### Step 2 : Patient Journey Map



Once clinically validated (the CIHI classification matches the clinical profile of the patient), an IDS 'Patient Journey Map' is created to identify other services that the patient is receiving (i.e., other members of the patient's care team) and better coordinate care.





# **IDS in Action**

Step 3: Shared Care Planning

- Appropriate providers from the identified services/organizations are then brought together to review the client's case and current treatment plans.
- A single, shared care plan is created by the team of providers. This shared care plan is "quarter-backed" by the patient's "Go-To-Person".
- The shared care plan is shared via Robotic Process Automation (RPA) between the primary care EMR (Telus) and CHRIS.







### **IDS in Action**

#### **Predicting Palliative Care Needs**

- Through IDS, the HOMR tool (Hospital One Year Mortality Ratio) is being used to identify patients who are likely to die in the next year and who would benefit from a palliative approach to care.
- Once identified, the primary care physician and team validate against the patient's clinical profile, and if appropriate, initiate an integrated care plan that includes all aspects of a palliative approach to care, including advanced care planning, serious illness and symptom management conversations, etc.
- Beneficial at both patient level (to address person-centred needs) and the system level (to predict required palliative care capacity to meet palliative care needs across the GW population).
- HOMR score is now also available to the IDS network of subscriber via IDS's 'once for many' approach.

#### What is HOMR?

The HOMR tool is an algorithm that uses data routinely collected by hospitals to accurately and reliably calculate a patient's risk of dying within the next 12 months.









### **Discussion Topic**

How are you engaging with front line providers (physicians, nurses, community workers) in determining what do do about emergent/identified patient needs or priorities?



### **Up Next**

- HSPN webinar series
  - 4<sup>th</sup> Tuesday of the Month: 12:00 1:30 pm

Upcoming June to October 2024:

Advancing the Learning Health System in Ontario: Parts 3 - 5



# Can you share some feedback? Scan here! (or click link in chat)





### **THANK YOU!**



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