

RISE population-health management:

Overview of core concepts, principles and RISE supports for OHTs

January 21, 2021

Dr. Robert Reid, RISE Co-lead

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Guest presentations from:

Georgia Whitehead, Mississauga OHT Director, Strategy Management and Major Projects, Trillium Health Partners

Ruth Hall, Co-Lead, Health System Performance Network Ministry Lead, Institute for Clinical Evaluative Sciences (IC/ES)





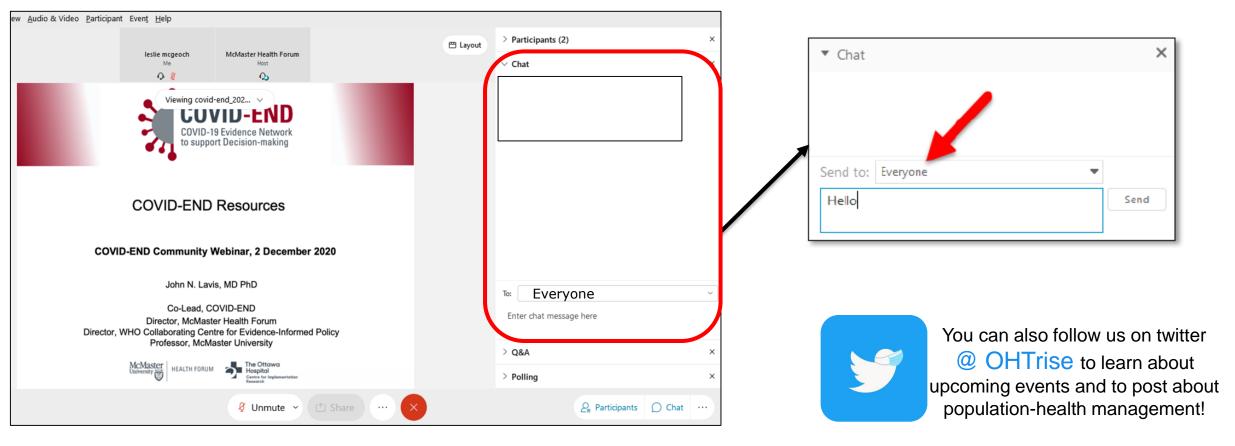






Welcome!

In the chat box, please select "everyone" tell us your name and your organization/OHT





Land acknowledgement

"As we meet here today, we are in solidarity with Indigenous Peoples of Turtle Island and would like to begin by acknowledging that the land on which we gather is part of the Treaty Lands and Territory of the Mississaugas of the Credit, and before, the traditional territory of the Haudenosaunee, Huron and Wendat. We also acknowledge the many First Nations, Inuit, Métis and other global Indigenous Peoples who now call this area their home. We are grateful for the opportunity to be working on this land".



Today's webinar

Purpose

- Develop awareness of RISE's population-health management supports for OHTs
- Review concepts and principles underlying population-health management
- Create a place for an OHT to share their learnings, successes, challenges

This session helps support OHTs in achieving the following OHT TPA milestones

- Re-designing care for patients in your priority population(s)
- Helping every patient in your priority population(s) to experience coordinated transitions between providers



Leslie McGeoch, RISE Focal Point



Steven Lott, RISE Communications Lead



Dr. Rob Reid, RISE Co-Lead



Georgia Whitehead, Mississauga OHT



Ruth Hall, Health System Performance Network



RISE will be providing three main supports for population-health management (PHM)

ACTIVITY BY COHORT COHORT 1 coaching & collaborative meetings (Jan 2021-Jan 2022)

COHORT 2 coaching & collaborative meetings (May 2021-Jan 2022)

COHORT 2 coaching & collaborative meetings (May 2021-Jan 2022)

Webinars

What: foundational PHM concepts and principles

Who: open to all

When: monthly (1hr)

Coaching sessions

What: one on one PHM

coaching

Who: OHT admin leads/priority population working group lead

When: bi-weekly (1hr -OHTs

decide with coach)



Virtual collaborative meetings

What: facilitated discussion by priority population to share learnings and solve problems with other OHTs and coaches

Who: OHT admin leads/priority population working group lead

When: monthly (1.5 hrs.)

Online PHM collaborative discussions



What: by priority population, share learnings and solve problems together as a group

Who: OHT admin leads/priority population working group lead

When: anytime

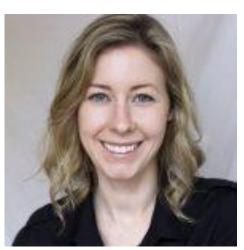
Where: OHT Collaboratives https://quorum.hqontario.ca/oht-collaboratives



Introducing the population-health management (PHM) coaches











Mike Hindmarsh

Connie Davis

Christina Clarke

Christina Southey

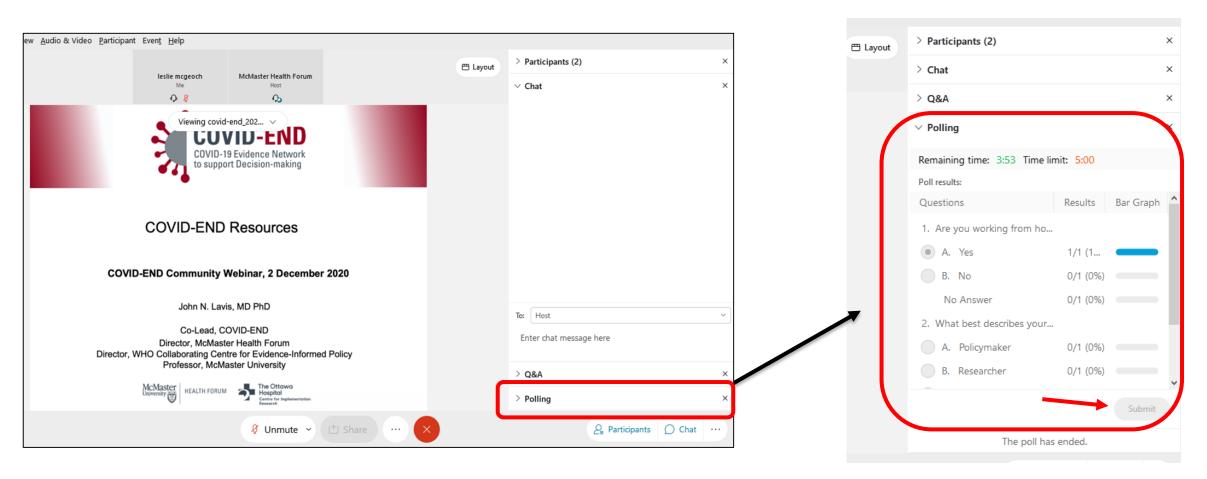
Lorri Zagar

Helping OHTs by facilitating change, offering improvement techniques and connecting to key resources



Poll

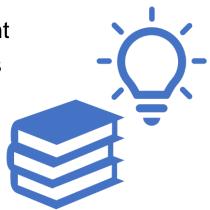
 Question 1: Please rate your level of familiarity of population-health management concepts (1- being low and 5 being high)





Today's population-health management learning objectives

- 1. Understand the concepts and principles of population health management
- 2. Understand the steps to design population health management programs
- 3. Understand how to apply these steps for COVID-19



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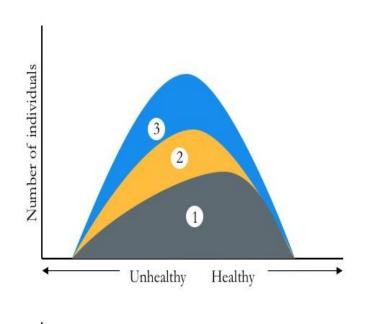








Recall the "3 Curves" of Population Health



1st Curve – Care for Acute Health Problems

- □ Timely access to high-quality acute care services (e.g., stroke care)
- Reacts to acute health needs 'one-by-one'

2nd Curve – Clinical Population Health Management

- Proactive management of health risks & ongoing conditions
- Focus is on all individuals with risks & conditions (users & non-users)
- Apply "good clinical care" consistently to everyone with common needs
- Uses an equity lens & addresses barriers

3 3rd Curve – Population-based Policies & Interventions

- Focus is on non-medical determinants of health
- Oriented longitudinally over the lifespan across large populations
- Health care community's role can be to provide, facilitate or advocate



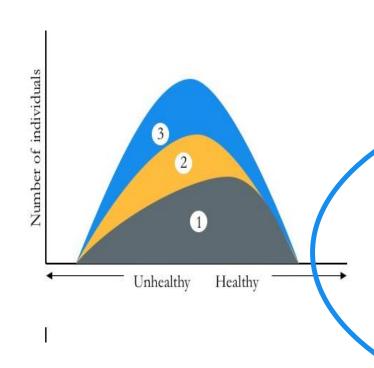








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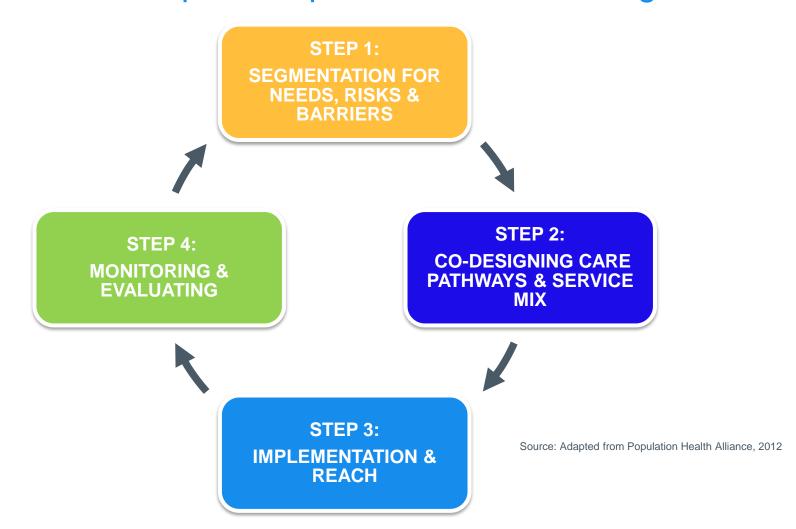




New

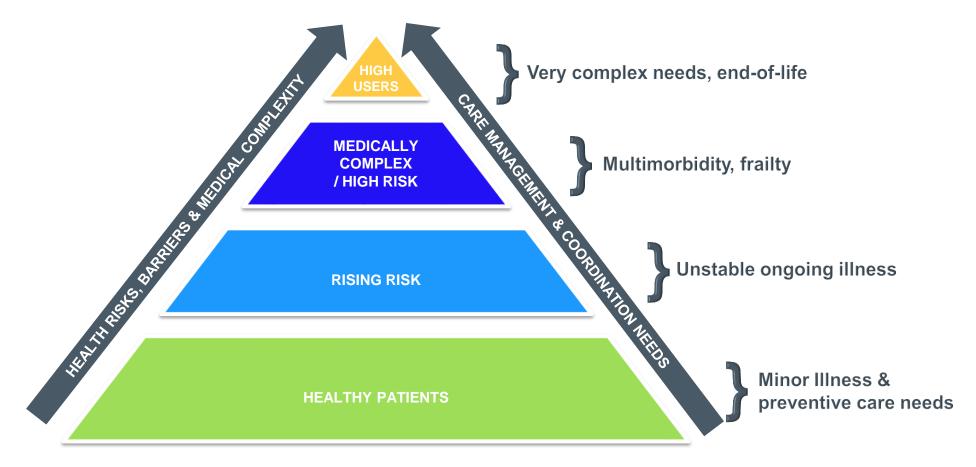


Recall the 4 steps of Population Health Management





Step 1: Using Data for Segmentation & Understanding Risks/Barriers





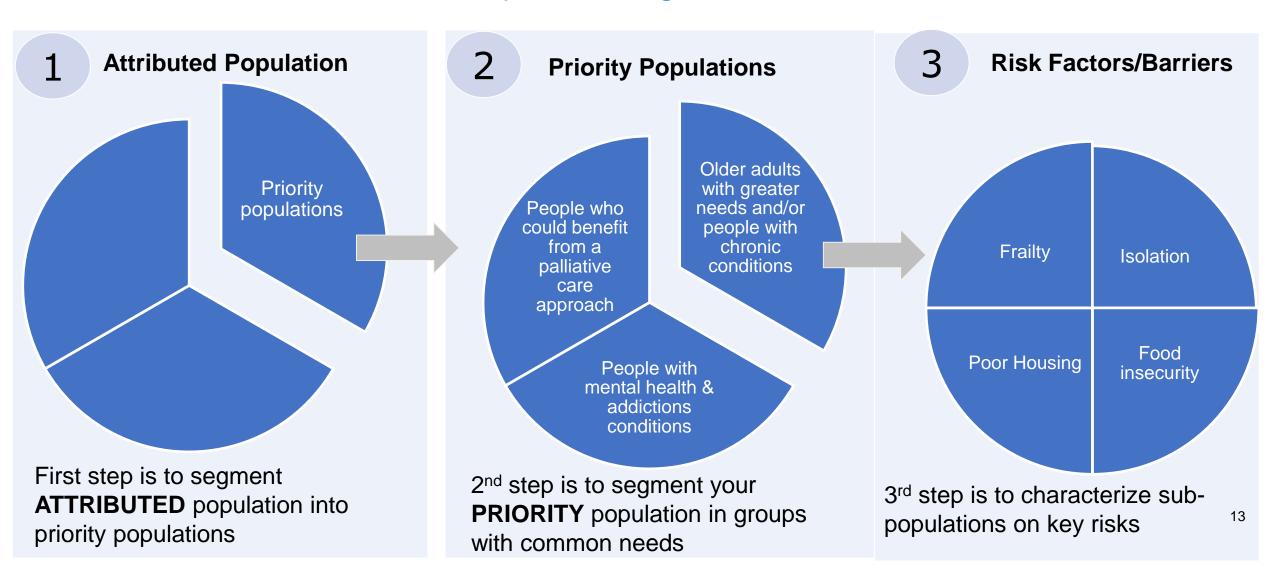






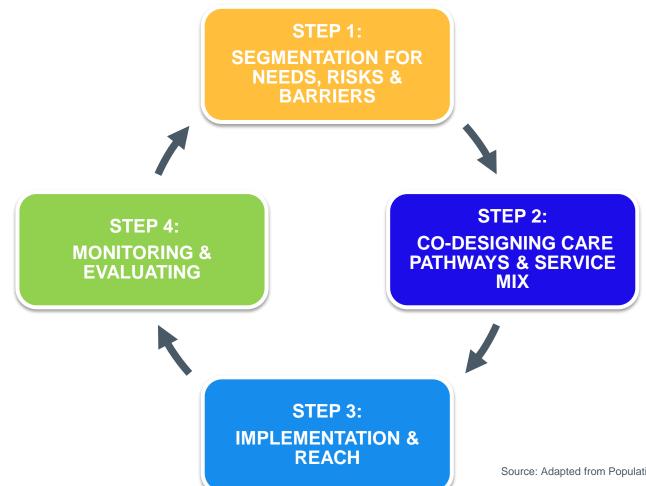


Population segmentation





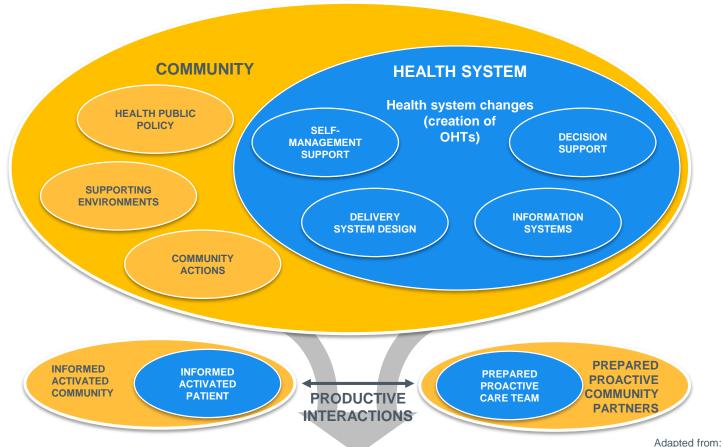
Recall the 4 steps of Population Health Management





Step 2: Co-designing Care Pathways & Service-mix

Expanded Chronic Care Model for Population Health



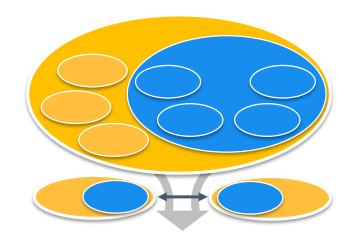


Step 2: Co-designing Care Model & Pathways

- Delivery System Redesign
 - New roles & new tools across OHT
 - Proactive In-reach & out-reach functionalities
 - Mechanisms to identify & address barriers to care



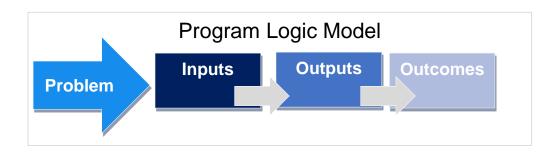
- Agreed upon clinical pathways & practice guidelines
- Active use of prompts & reminders for providers & patients
- Clinical Information Systems
 - Population registries & patient-centred trackers for care & outcomes
- Patient Self-Management Support
 - Interventions to build motivation, skills, capabilities for behaviour change





Step 3: Implementation & Reach

 Develop a logic model that connects inputs, activities and shortterm and long-term outcomes



Test new care pathways, tools and approaches with a small number of patients, over a short period of time







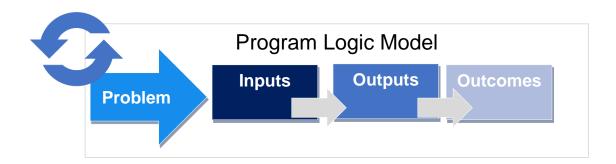






Steps 4: Monitoring & Evaluation

Revise logic model based on your initial work



 Choose outcomes that clinically relevant, easily extractable (from EHR) and are measurable as part of routine care

 Perform on-going monitoring and evaluation at an individual-level and system-level



 Share findings with leadership and others serving the priority population





RISE & HSPN overlapping supports by population-health management step

Population Segmentation & Understanding Barriers to Care

1



 Understanding how to segment your ATTRIBUTED population into priority populations 2



 Taking your PRIORITY population and learning how to segment into sub-populations

Monitoring & Evaluating

1



- Identifying and calculating metrics for each OHT's ATTRIBUTED populations
- Identifying and calculating broader metrics which all OHTs can use for the common PRIORITY populations (e.g. palliative, mental health, frail seniors)
- Uses administrative databases (e.g., DAD, NACRS,NRS, HCD, LTC, OHIP billings)

2



- Learning how to build metrics for your PRIORITY sub-populations
- Uses OHT specific data sources as well as administrative databases.



An Example of a Population-Health Management Approach: the COVID-19 Pandemic Response

Early lessons in the management of COVID-19 is that it requires a population based approach to:

- reduce transmission and the risk for infection,
- Provide clinical care for those with COVID-19,
- Integrate across service sectors (hospitals, LTC, public health, etc.) and shift to virtual care models

Learning objectives:

- Review the population-at-risk for transmission & severe disease
- Learn to apply a population health management approach to managing the "3 curves" of COVID-19





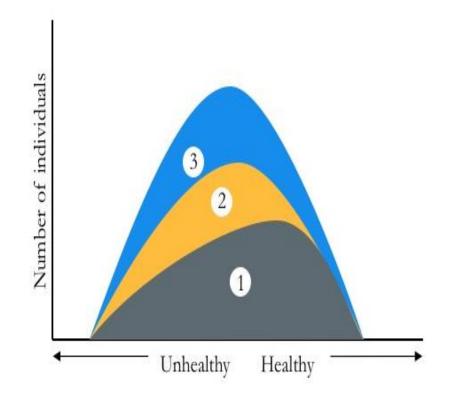








Applying the "3 Curves" of Population Health for COVID-19



1st Curve – Caring for those with moderate to severe COVID-19 symptoms

- Provide timely access to hospital care for patients with moderate to severe disease (e.g. oxygen, medications, intensive care)
- Focus has been to maintain sufficient & responsive resources (e.g. ICU capacity, front-line workers, PPE etc.)
- Population-based modeling of predicted use is key for capacity planning
- Good IPAQ practices are essential to prevent in-hospital & LTC transmission and outbreaks



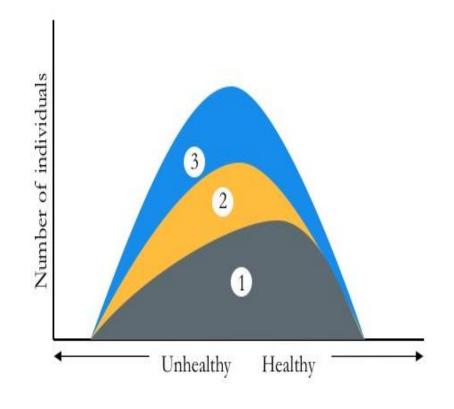








Applying the "3 Curves" of Population Health for COVID-19



- 2nd Curve Caring for those with asymptomatic infection or mild COVID-19 symptoms
- Test individuals promptly with symptoms & identify COVID-19
- Provide supportive clinical care virtually & monitor for deterioration or persistent disease
- Limit spread to others (e.g. family members, colleagues etc.) with preventive measures (e.g., isolation, PPE etc.)
- Trace close contacts and ensure they are informed, quarantined and tested
- Apply an equity lens & address barriers (e.g., work leave, child care, income support, PPE)



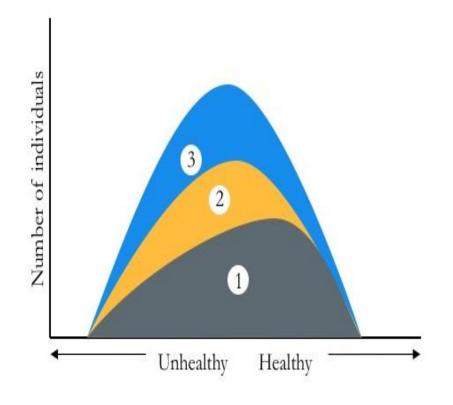








Applying the "3 Curves" of Population Health for COVID-19



3 3rd Curve – Population Policies & Interventions

- Educate on public health behaviors (e.g. physically distance, wear a mask, socially bubble, wash hands, etc.)
- Distribute & promote vaccine uptake, including addressing vaccine hesitancy
- Non-medical strategies are key (e.g. community engagement, education campaigns, travel restrictions, mask mandates, capacity limits, lockdowns etc.)
- Address underlying socioeconomic risks (e.g. inadequate housing, sick pay) & barriers to care (e.g. mobile testing centers, vaccination outreach)
- Healthcare community's role is to work with public health, social services, and other community agencies to align/provide/advocate for services.



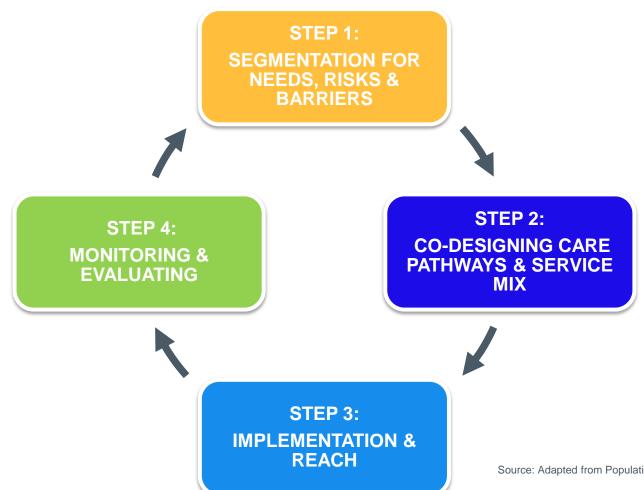






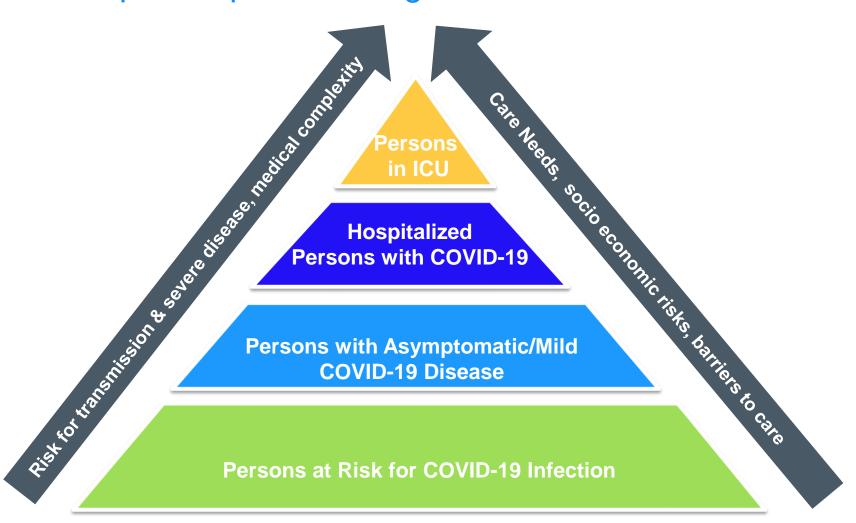


Population Health Management Approach



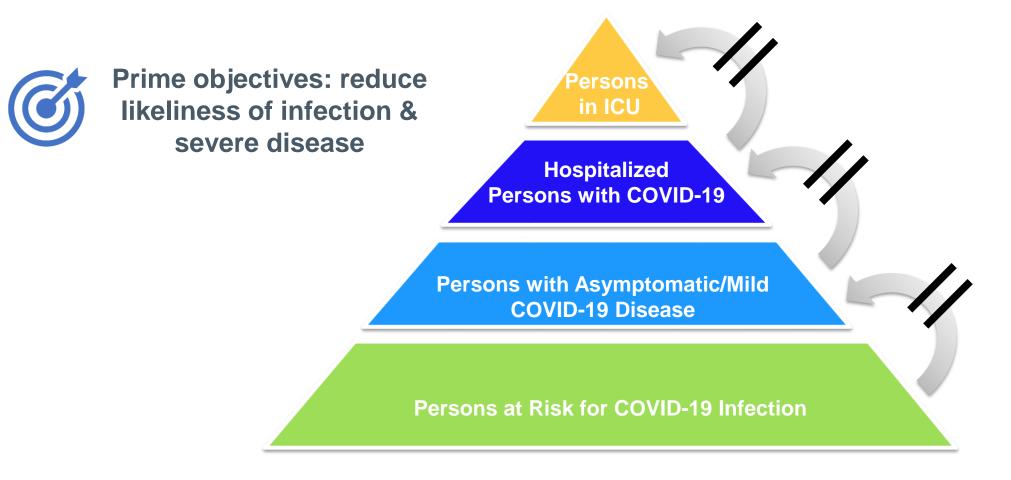


Step 1: Population Segmentation for COVID-19





Step 1: Population Segmentation for COVID-19





Population Health Segmentation Framework for COVID-19

Personal Experience with COVID-19

No Documented Disease

Acute Disease

- Asymptomatic/Mild
- Moderate
- Severe

Recovered

- No sequelae
- Sequelae (i.e. COVID long)

Risk factors for COVID-19 Infection & Severe Disease

Risk for Infection

- community prevalence
- level of exposure (e.g. duration, close contact, crowds)
- certain occupations
- living circumstances (e.g. congregate living, homelessness)
- other social factors (e.g. ability to avoid public transit, group daycare, discrimination etc.)
- public health behaviors

Risk for Severe Disease

 Individual factors (e.g. older age, chronic illness, weak immune system, pregnancy, obesity, certain medications)

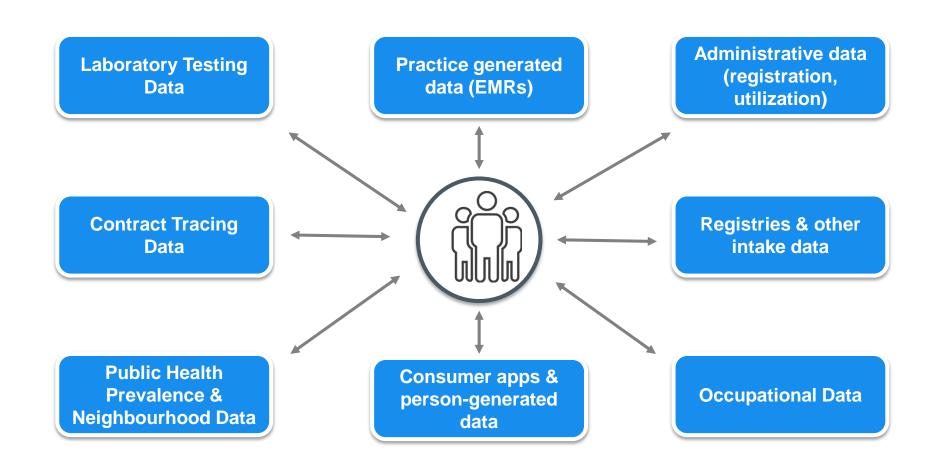
Non COVID-19 Needs

Type of Care Needs

- Acute illness (primary care, emergency, hospital)
- Chronic illness care (moderate, multimorbidity, complex)
- Mental health & addictions care
- Preventive care (e.g. immunization, screening)
- Child & maternal care
- Palliative care
- Special populations (e.g. CRF)



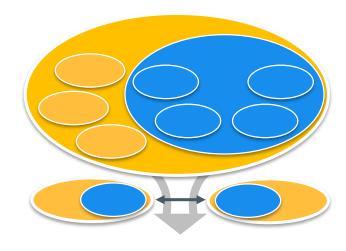
Population Segmentation for COVID: Where can data come from?



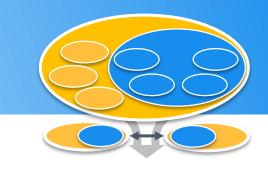


Step 2: Co-designing Care Model & Pathways

- Delivery System Redesign
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 - Proactive In-reach & out-reach functionalities
 - Mechanisms to identify & address barriers to care
- Clinical Decision Supports
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Co-designing Care Model & Pathways

Curve 1 – Moderate/Severe COVID-19 (Hospitalised)

Curve 2 – Asymptomatic/Mild COVID-19 (Isolating at home)

Curve 3 – No COVID-19

Delivery System Redesign

- Virtual ED & Hospital COVID-19 Wards
- Airway Teams & IPAQ Protocols
- Virtual Visiting
- Post-Acute Followup

Clinical Decision Supports

- COVID-19 CPGs
- Contact Tracing/Testing CPGs & Prompts
- Followup Prompts & Vaccination CPGs

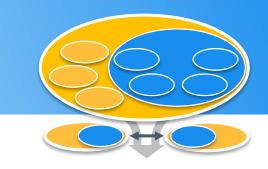
Clinical Information Systems & Registries

Patient Trackers & Case Reporting

Self-Management Support

- Education/Training on Protective Behaviors
- Visitor Guidelines





Co-designing Care Model & Pathways

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Curve 2 – Asymptomatic/Mild COVID-19 (Isolating at home)

Curve 3 – No COVID-19

Delivery System Redesign

- Virtual ED & Hospital COVID-19 Wards
- Airway Teams & IPAQ Protocols
- Virtual Visiting
- Post-Acute Follow-up

- Assessment Centers & ILI Clinics
- Virtual care (telephone, messaging, video)
- Monitoring for Worsening Symptoms
- Post-acute Follow-up

Clinical Decision Supports

- COVID-19 CPGs
- Contact Tracing/Testing CPGs & Prompts
- Follow-up Prompts & Vaccination CPGs
- COVID-19 Mgmt Apps & CPGs
- Contact Tracing/Testing CPGs
- Follow-up Prompts & Vaccination CPGs

Clinical Information Systems & Registries

Patient Trackers & Case Reporting

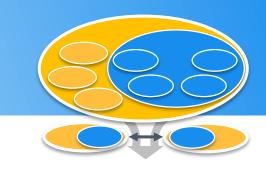
Case Reporting & Contact Tracing

Self-Management Support

- Education/Training on Protective Behaviors
- Visitor Guidelines

- Information on Symptom Mgmt & Care Seeking/Followup
- Isolation guidelines, tools, & techniques





Co-designing Care Model & Pathways

Curve 1 – Moderate/Severe COVID-19		
(Hospitalised)		
Delivery Cyclem Dedecier		

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Delivery System Redesign

- Virtual ED & Hospital COVID-19 Wards
- Airway Teams & IPAQ Protocols
- Virtual Visiting
- Post-Acute Followup

- Assessment Centers & ILI Clinics
- Virtual care (telephone, messaging, video)
- Monitoring for Worsening Symptoms
- Post-acute Followup

- Virtual Care for Non-COVID-19 conditions
- COVID-19 Screening in High risk settings
- Testing & Vaccination Strategies

Clinical Decision Supports

- COVID-19 CPGs
- Contact Tracing/Testing CPGs & Prompts
- Followup Prompts & Vaccination CPGs
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- Testing CPGs & Prompts
- Vaccination CPGs & Prompts

Clinical Information Systems & Registries

Patient Trackers & Case Reporting

Case Reporting & Contact Tracing

- COVID-19 Apps & Population Trackers
- Risk Factor Tracking (e.g., community prev)

Self-Management Support

- Education/Training on Protective Behaviors
- Visitor Guidelines

- Information on Symptom Mgmt & Care Seeking/Followup
- Isolation guidelines, tools, & techniques

- Guidance for Testing & Vaccination
- Public Health Measures (e.g., masking, travel, social mixing)





Cough and Flu Clinic

January 21st, 2020







Cough and Flu Clinic in Mississauga

CHALLENGE:

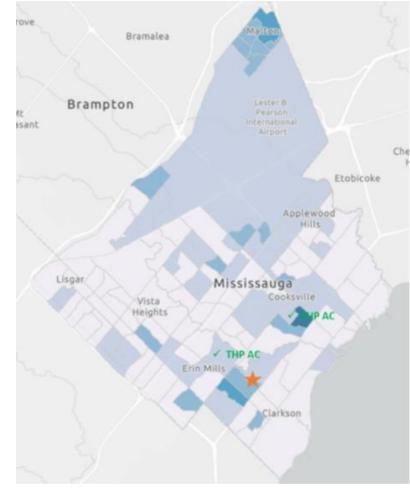
- Primary care physicians face barriers in providing in-person assessment/treatment for patients with COVID-19 symptoms (e.g. PPE, staffing, IPAC)
- For patients, this can mean:
 - Visiting the ER/after hours clinics
 - Trying to get a COVID-19 test before an in-person appointment
 - Waiting at assessment centres
 - Lack of continuity of care between alternative sites and regular providers

OPPORTUNITY:

- Establish a community clinic for assessment/treatment of patients with respiratory illness who need to be seen in-person but are unable to see their own provider in-person
- For OHT, builds essential core foundations for future partnerships and clinical change

Step 1: Population Segmentation & Understanding Barriers to Care

- Defined target population based on the above challenge/gap
- Clinic location determined based on COVID-19 hotspot areas
- Ensured clinic is accessible to any individuals (not just those rostered with the team) to allow patients who do not have a primary care provider to also seek treatment



Peel Public Health Dashboard from time of initial planning, considering local hotspots.











Cough and Flu Clinic in Mississauga

Step 2: Co-designing Care Pathways

- Primary care-led initiative established through partnership among five OHT members (founding primary care partners and acute care)
- Planning and engagement enabled by the Mississauga Halton Primary Care Network and Patient & Family Advisors
- Clinic launched Dec. 2, 2020; managed and staffed by Family Health Team (FHT); space
 & equipment provided by FHT; staffed by primary care physicians from community
- Patients can be referred by their own primary care provider (e.g. virtual visit) or can call the clinic directly
- Primary care providers will be notified when their patients visit (if possible) to enable continuity of care

Step 3: Implementation & Reach

- Next steps: enhanced access (i.e. potential for new location(s) in hotspot areas)
- Opportunity to use postal code analysis to understand population/target in-reach strategies
- Infrastructure and partnerships can be leveraged to spread to additional populations

Step 4: Monitoring & Evaluation

- KPI set: Proportion of individuals who receive same-day/next-day appointment
- Additional measures monitored: volumes, % swabbed, % positivity









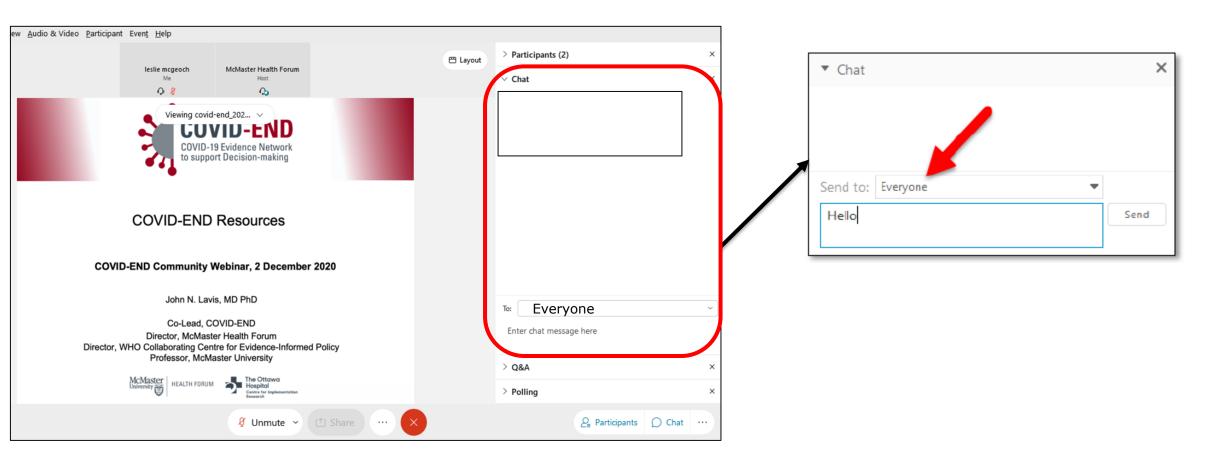






Questions?

In the chat box, please select "everyone" and ask your questions.





Population-health management (PHM) next steps

- Upcoming Webinars:
 - HSPN OHT Evaluation (January 26)
 - RISE PHM core concepts for implementation and evaluation (March date TBC)
- Upcoming Cohort 1 activities:
 - Admin leads to complete survey about RISE supports:
 https://surveys.mcmaster.ca/limesurvey/index.php/849646?lang=en
 - PHM Coaching (starting January 25)
 - Collaborative Meeting (February date TBD):
 - Poll being sent to confirm event date
 - Focus: segmenting priority populations into subpopulations.
 - In advance: choose ONE priority population and think about how you would like to segment it into subpopulations



Additional Resources

RISE

- Visit our website (<u>www.OHTrise.org</u>) to access additional resources and register for upcoming webinars
- Contact us with questions or requests for supports for OHTs (<u>rise@mcmaster.ca</u>)

HSPN

- Visit their website (https://hspn.ca/evaluation/ontario-health-teams/) to access additional resources and register for upcoming webinars
- Contact them with questions (<u>OHT.Evaluation@utoronto.ca</u>)

Mississauga OHT

- Visit their website for additional information (<u>www.moht.ca</u>)
- Contact them with questions (<u>info@moht.ca</u>)



THANK YOU!











APPENDIX











Other Population-Health Management (PHM) Supports

RISE supports each of the PHM four steps through providing rapid—learning and improvement resources such as webinars, collaboratives and coaching. In addition to RISE, other central program of support partners also support PHM, as outlined below.

Steps in PHM approach	Supports available to OHTs
Step 1 : Segmenting population into groups with shared health and social needs	RISEHealth System Performance Network (HSPN)
Step 2: Co-designing care pathways, in-reach and out-reach services for each population segment	 RISE Centre for Effective Practice Many health-system partners contributing to the collaboratives (one for each priority population)
Step 3: Implementing the pathways and services in ways that reach and benefit all who need them	• RISE
Step 4 : Monitoring reach & other process measures and evaluating quadruple-aim metrics	RISEHSPNICES