

## **OHT** priority population

**RISE brief 15:** Resources to support population-health management for people with chronic conditions (Last updated 27 January 2021)

#### **Overview**

Many OHTs selected people with chronic conditions as one of their priority populations and have established working groups focused on equitably 'moving the needle' on quadruple-aim metrics for this population. Though people with chronic conditions were initially conceptualized as a single priority population, they have been combined with the priority population of older adults with greater needs given the significant overlap between the two populations. This brief focuses on people with chronic conditions, a sister brief has been developed for those OHTs that have prioritized older adults with greater needs. In addition, three other briefs have been prepared that focus on each of the other priority populations that were frequently selected by cohort 1 OHTs (see Box 1).

Central to the work of OHTs is developing a populationhealth management plan, which includes four steps:

- 1) segmenting the priority population into groups with shared needs and access barriers;
- 2) co-designing care pathways and in-reach and out-reach services for each group;
- 3) implementing pathways and services in a way that reaches and is appropriate to each group; and
- 4) monitoring implementation and evaluating impact.

To support this work, RISE has:

- 1) updated RISE brief 6 on population-health management; and
- 2) developed a list of questions related to developing a population-health management plan (which is available as an appendix to RISE brief 6).

# **Box 1: Coverage of priority populations and OHT building blocks**

This RISE brief addresses the first of four priority populations that were frequently selected by cohort 1 OHTs:

- 1) older adults and/or people with chronic conditions;
- 2) people with mental health and addictions issues;
- 3) people who could benefit from a palliative approach to care; and
- 4) people at risk of or affected by COVID-19.

This RISE brief primarily addresses building block #4 and secondarily addresses building blocks #3, #5 and #8:

- 1) defined patient population
- 2) in-scope services
- 3) patient partnership and community engagement
- 4) patient care and experience
- 5) digital health
- 6) leadership, accountability and governance
- 7) funding and incentive structure
- 8) performance measurement, quality improvement, and continuous learning

When undertaking population segmentation, OHTs will need to be sensitive to diversity in the population of people with chronic conditions, as well as how this population may overlap and intersect with older adults with greater needs. This population includes:

1) people living with a single chronic condition (such as congestive heart failure, chronic obstructive pulmonary disease, dementia and diabetes), two or more related chronic conditions (e.g., obese individuals often also have diabetes), two or more unrelated chronic conditions (e.g., multimorbidity that includes, say, heart disease, HIV/AIDS, and a mental health or substance-use problem) or any such combination; and

2) people with low risk (e.g., a single well-managed chronic condition or risk health behaviour), emerging risk (e.g., multiple poorly controlled chronic conditions), high risk (e.g., high complexity, needs and barriers to accessing care) or the full spectrum of risk.

OHTs will also need to be sensitive to how Ontarians living with low socio-economic status carry a disproportionate burden of chronic conditions, with higher rates of hospitalizations and deaths.<sup>2,3</sup>

When co-designing care pathways and in-reach and out-reach services to address this diversity in the population of people with chronic conditions, OHTs will need to choose an appropriate balance among: 1) primary, secondary and tertiary prevention; 2) managing both individual conditions and multimorbidity; and 3) helping people live as well as possible with their conditions. Moreover, they will need to consider findings like those from systematic reviews of the research literature suggesting that: 1) the right integrated care for people with chronic conditions can significantly reduce emergency admissions and hospital length-of-stay; and 2) examples of successful integrated-care practices include coordination across and between services through more patient contact, treatment and follow-up in primary care and in patients' homes or their community.<sup>2,4</sup> They will also need to consider that people with chronic conditions often need access both to health services (including, where applicable, provincially or regionally supported specialized services) and to a broad array of social services that may be provided by community-based organizations, municipal governments, and others.<sup>4</sup>

When implementing pathways and services, OHTs will need to proactively identify people with chronic conditions and make careful and evidence-informed decisions about when, where, by whom and how pathways and services will be implemented in order to ensure that they are 'moving the needle' on quadruple-aim metrics for this population.

Lastly, when monitoring and evaluating, organizations will need to incorporate planning for change and set realistic targets. A helpful tool to graphically depict the relationship between the resources required and the outcomes desired is a logic model. The Health System Performance Network has developed logic model templates and other evaluation supports to aid in the implementation of OHTs (see resource section in step 4). More details on the four steps of population-health management can be found in RISE brief 6.

OHTs will ideally develop their population-health management plans in collaboration with:

- 1) other OHTs focused on the same population;
- 2) experts who are aware of the many resources available in Ontario to support their efforts; and
- 3) experts who have experience with one or more of the four steps in population-health management.

As part of the first of these three types of collaborations, OHTs may wish to discuss together:

- 1) whether to seek agreement about whether their scope includes:
  - a. children, youth (including transition-age youth), adults, or all three broad age groups,
  - b. people with a single chronic condition, two or more related chronic conditions, two or more discordant chronic conditions or all such combinations (and if it's a single chronic condition, how to address the lack of overlap among the conditions congestive heart failure, chronic obstructive pulmonary disease, dementia and diabetes that OHTs singled out in their full application), and
  - c. people with low, medium or high risk or the full spectrum of risk;
- 2) intersections with older adults with greater needs, defined as having complex care needs with multiple medical conditions, who are likely to experience unstable health status and functional limitations, and have interactions with multiple service providers; and
- 3) whether and how to differentiate their work from those focused on other related priority populations, such as:
  - a. older adults,
  - b. people with mental health and addictions issues,
  - c. people who could benefit from a palliative approach to care, and
  - d. people at risk of or affected by COVID-19.

Resources on these types of collaboration are available on the <u>RISE website</u>, including those provided at the OHT Forum held February 2020. OHTs may benefit from continuing the conversation in the <u>online collaborative</u> for each of the priority populations.

This RISE brief provides a first draft of a summary of the resources available to support the development of a population-health management plan for people with chronic conditions. Priority was given to those resources that are provincial in scope and free to access.

We have organized these resources into five groups:

- 1) resources related to each of the four steps in population-health management;
- 2) resources related to each of the eight OHT building blocks;
- 3) provincial organizations;
- 4) government-supported initiatives; and
- 5) key legislation.

### Resources related to each of four steps in population-health management

While not always directly targeting or using language directly related to the four steps in population-health management (or the first four steps in a 'rapid learning and improvement' cycle to which they correspond), a number of resources can be drawn upon to inform these steps (Table 1). Where relevant, they are organized by: 1) those with a broad focus on chronic conditions; 2) those with a focus on each of the four chronic conditions singled out by OHTs (namely congestive heart failure, chronic obstructive pulmonary disease, dementia and diabetes); and 3) those with a broader focus than chronic conditions, but one that is highly related to chronic conditions.

Steps	Resources
Step 1: Segmenting the population into groups (or population segments) with shared needs and barriers to accessing needed services [or more generally identifying a problem (or goal) through an internal and external review]	<ul> <li>Ontario Health Teams were each provided with two data packages from the Ministry of Health that includes utilization and referral data which can be used to segment the population</li> <li>In addition, data and findings from available reports can be used to understand the burden of chronic conditions in the province alongside shared needs and barriers to accessing services:         <ul> <li>Public Health Ontario and Cancer Care Ontario produced The burden of chronic diseases in Ontario: Key estimates to support efforts in prevention</li> <li>Metis Nation of Ontario produced a clinical significance report on cardiovascular disease in the Metis Nation of Ontario</li> <li>Ontario Health (Quality) published several relevant systematic reviews and qualitative syntheses:</li></ul></li></ul>
Step 2: Co-designing care pathways and in-reach and out-reach services appropriate to each group [or more generally designing a solution based on data and evidence generated locally and elsewhere]	<ul> <li>Strategies, care standards, and best practice guidelines can be used to inform the redesign of care pathways, including:         <ul> <li>Ministry of Health produced a <u>Chronic disease prevention guideline</u></li> <li>Registered Nurses Association of Ontario's best practice guidelines:</li></ul></li></ul>

Steps	Resources
Step 3: Implementing pathways and services in a way that reaches and is appropriate to each group [or more generally implementing the plan, possibly in pilot and control settings]	<ul> <li>subcutaneous administration of insulin in adults with Type 2 diabetes</li> <li>reducing foot complications for people with diabetes</li> <li>assessment and management of foot ulcers for people with diabetes</li> <li>Public Health Ontario published 22 recommendations (in 2016) to prevent chronic diseases in Ontario, and a companion report (Path to prevention) outlines specific recommendations for working with First Nations, Inuit and Metis populations in Ontario</li> <li>Ministry of Health in collaboration with Ontario Aboriginal organizations and independent First Nations, developed an Ontario Aboriginal diabetes strategy</li> <li>Ontario Health (Quality) and the Ministry of Health developed a clinical handbook for a number of Quality-Based Procedures, including congestive heart failure</li> </ul>
Step 4: Monitoring implementation and evaluating impact [or more generally evaluating to identify what does and does not work]	<ul> <li>The Health System Performance Network has developed a guide to support OHTs in developing their own logic models for their prioritized populations</li> <li>Ontario Health (Quality) developed recommendations related to caring for heart failure in the community that included a measurement guide</li> <li>The 2017 report of the Auditor General of Ontario included an assessment of the effectiveness of the systems and processes across the Ministry of Health, boards of health and Public Health Ontario for chronic disease prevention</li> </ul>

#### Resources related to the OHT building blocks

A number of resources can also be drawn upon that relate to those OHT building blocks that are most connected to population-health management for people with chronic conditions (Table 2). Where relevant, they are again organized by: 1) those with a broad focus on chronic conditions; 2) those with a focus on each of the four chronic conditions singled out by OHTs (namely congestive heart failure, chronic obstructive pulmonary disease, dementia and diabetes); and 3) those with a broader focus than chronic conditions, but one that is highly related to chronic conditions.

Table 2: Resources by OHT building block\*

Building block	Resources
Building block #1: Defined patient population (who is	• See resources listed in step 1 of the population-health
covered, and what does 'covered' mean?): Identified	management table above
population and geography at maturity and target population for	
year 1. Process in place for building sustained care relationships	
with patients. High-volume service delivery target for year.	
Year 1 expectations: Patient access and service delivery target met.	
Number of patients with sustained care relationship reported.	
Plan in place for expanding target population.	
At maturity: Teams will be responsible for the health outcomes of	
the population within a geographic area that is defined based on	
local factors and how patients typically access care.	
Building block #2: In-scope services (what is covered?):	• See resources listed in step 2 of the population-health
Existing capacity to deliver coordinated services across at least	management table above
three sectors of care (especially hospital, home care, community	
care, and primary care). Plan in place to phase in the full	
continuum of care and include or expand primary care services.	

Building block	Resources
Year 1 expectations: Additional partners identified for inclusion.	
Plan in place for expanding range and volume of services	
provided. Primary-care coverage for a significant portion of the	
population.	
At maturity: Teams will provide a full and coordinated continuum	
of care for all but the most highly specialized conditions to	
achieve better patient and population health outcomes.	
Building block #3: Patient partnership and community	Ontario Health (Quality) developed a patient
engagement (how are patients engaged?) - Demonstrated history of meaningful patient, family and caregiver engagement, and support from First Nations communities where applicable. Plan in place to include patients, families and caregivers in governance structure(s) and put in place patient leadership. Commitment to develop an integrated patient-engagement framework and patient-relations process. Adherence to the French Language Services Act, as applicable.  Year 1 expectations: Patient declaration of values is in place. Patients, families and caregivers are included in governance structure(s) and patient leadership established. Patient-engagement framework, patient-relations process, and community-engagement plan are in place.  At maturity: Teams will uphold the principles of patient partnership, community engagement, and system co-design. They will meaningfully engage and partner with - and be driven by the needs of - patients, families, caregivers and the communities they service.	conversation guide to support patients, families and caregivers with the management of heart failure, chronic obstructive pulmonary disease, dementia, diabetes (Type 1) (draft), pre-diabetes and diabetes (Type 2) (draft)  The University of Ottawa Heart Institute produced a guide for patients and families on managing heath failure  Indigenous diabetes health circle strengthens Indigenous community capacity to reduce the impact of diabetes  The Ontario Native Women's Association administers an Aboriginal diabetes education and awareness project
Building block #4: Patient care and experience (how are	Ontario Health (Quality) undertook two relevant
patient experiences and outcomes measured and	analyses:
supported?): Plans in place to improve access, transitions and	o self-management support interventions for persons
coordination, key measures of integration, patient self-	with chronic disease
management and health literacy, and digital access to health	o discharge planning in chronic conditions
information. Existing capacity to coordinate care. Commitment	Ontario Health (Quality) developed two relevant sets
to measure and improve patient experience and to offer 24/7	of recommendations:
coordination and navigation services and virtual care.	o recommendation on specialized community-based
Year 1 expectations: Care has been redesigned. Access, transitions	care for chronic diseases, which includes a
and coordination, and integration have improved. Zero cold	decision-making framework with seven guiding
handoffs. 24/7 coordination and navigation services, self-	principles and a decision-making tool
management plans, health literacy supports, and public	o recommendations for optimizing chronic disease
information about the Team's services are in place. Expanded	management in the community (outpatient) setting,
virtual-care offerings and availability of digital access to health	which include effectiveness reviews of discharge
information.	planning, in-home care, continuity of care,
At maturity: Teams will offer patients, families and caregivers the	advanced access scheduling, screening for
highest quality care and best experience possible. 24/7	depression/anxiety, self-management support
coordination and system navigation services will be available to	interventions, specialized nursing practice, and
patients who need them. Patients will be able to access care and	electronic tools for health information exchange
their own health information when and where they need it, including digitally, and transitions will be seamless.	Ontario Health (Quality) developed a number of
incruding digitally, and transitions will be seatilless.	quality standards related to chronic conditions, such
	as:
	o congestive heart failure
	o chronic obstructive pulmonary disease (care in the
	community for adults with chronic obstructive pulmonary disease)

o dementia (care for people living in the community)

Building block	Resources
	<ul> <li>behavioural symptoms of dementia (care for patients in hospitals and residents in long-term</li> </ul>
	care homes)
	o diabetic foot ulcers
	o diabetes in pregnancy (draft)
	o diabetes Type 1 (draft)
	o diabetes Type 2 (draft)
	CorHealth produced a <u>roadmap for improving</u>
	integrated heart failure care in Ontario
	Alzheimer Society of Ontario produced a report on
	dementia-friendly communities
	Diabetes Canada has developed evidence-based
	guidelines for diabetes
	Ministry of Health provides diabetes-related
	information for both the <u>public</u> and <u>providers</u>
	The Ontario Federation of Indigenous Friendship
	Centres has a <u>lifelong care program</u> that provides
	services and care for people of all ages that have
	physical disabilities, serious health issues, or those
	who are frail and/or elderly
	Hospital at Home complex care lab explores the
	possibility of providing acute, hospital-level care at
	home for people who have been admitted to hospital
	with congestive heart failure, chronic obstructive
	pulmonary disease or community acquired pneumonia
	Ontario Telehealth Network supports a <u>tele-homecare</u>
	program to support people with chronic disease who
Building block #5: Digital health (how are data and digital	are managing their care at home
solutions harnessed?): Demonstrated ability to digitally record	Ontario Health (Quality) conducted two relevant health technology assessments:
and share information with one another and to adopt/provide	o health technologies for the improvement of
digital options for decision support, operational insights,	chronic disease management
population-health management, and tracking/reporting key	o chronic disease management systems for the
indicators. Single point of contact for digital-health activities.	treatment and management of diabetes in primary
Digital-health gaps identified and plans in place to address gaps	healthcare practices
and share information across partners.	The <u>electronic asthma-management system</u> provides
Year 1 expectations: Harmonized information - management plan	personalized, electronic medical record-integrated
in place. Increased adoption of digital-health tools. Plans in place	asthma guidance for patients and health providers
to streamline and integrate point-of-service systems and use data to support patient care and population-health management.	aligned with Ontario Health's 'asthma in adults'
At maturity: Teams will use digital health solutions to support	quality standard and Ontario Health's digital playbook
effective healthcare delivery, ongoing quality and performance	
improvement, and better patient experience.	
Building block #6: Leadership, accountability and	Resources that are not specific to this priority population
governance (how are governance and delivery arrangements	are available through the <u>building block #6</u> section on
aligned, and how are providers engaged?): Team members	the RISE website
are identified and some can demonstrate history of working	
together to provide integrated care. Plan in place for physician	
and clinical engagement and inclusion in leadership and/or	
governance structure(s). Commitment to the Ontario Health	
Team vision and goals, developing a strategic plan for the team,	
reflecting a central brand, and where applicable, putting in place formal agreements between team members.	
TOTHIAI AGREEMENTS DELWEEN LEANN MEMBERS.	

Puilding block	Doggoverano
Building block  Year 1 expectations: Agreements with ministry and between team	Resources
members (where applicable) in place. Existing accountabilities	
continue to be met. Strategic plan for the team and central brand	
in place. Physician and clinical engagement plan implemented.	
At maturity: Teams will determine their own governance	
structure(s). Each team will operate through a single clinical and	
fiscal accountability framework, which will include appropriate	
financial management and controls.	NY
Building block #7: Funding and incentive structure (how	None available
are financial arrangements aligned?): Demonstrated track	
record of responsible financial management and understanding	
of population costs and cost drivers. Commitment to working	
towards integrated funding envelope, identifying a single	
fundholder, and reinvesting savings to improve patient care.	
Year 1 expectations: Individual funding envelopes remain in place.	
Single fundholder identified. Improved understanding of cost	
data.	
At maturity: Teams will be prospectively funded through an	
integrated funding envelope based on the care needs of their	
attributed patient populations.	
Building block #8: Performance measurement, quality	• ICES's research program on chronic conditions tracks
improvement, and continuous learning (how is rapid	the epidemiology, management and outcomes of
learning and improvement supported?): Demonstrated	chronic conditions over time and among population
understanding of baseline performance on key integration	sub-groups and geographic area
measures and history of quality and performance improvement.	Ontario Health (Quality) conducted an <u>economic</u>
Identified opportunities for reducing inappropriate variation and	evaluation of implementing the quality standard on
implementing clinical standards and best evidence. Commitment	optimizing chronic-disease management
to collect data, pursue joint quality-improvement activities,	openium generale encence management
engage in continuous learning, and champion integrated care.	
Year 1 expectations: Integrated quality-improvement plan in place	
for the following fiscal year. Progress made to reduce variation	
and implement clinical standards and best evidence. Complete	
and accurate reporting on required indicators. Participation in	
central learning collaborative	
At maturity: Teams will provide care according to the best	
available evidence and clinical standards, with an ongoing focus	
on quality improvement. A standard set of indicators aligned with	
the quadruple aim will measure performance and evaluate the	
extent to which Ontario Health Teams are providing integrated	
care, and performance will be reported.	
care, and performance win be reported.	

## Provincial organizations as resources

A number of provincial organizations support the development, implementation, delivery, and evaluation of best practices in the care of people with chronic conditions (Table 3). These organizations offer information, evidence and pre-packaged resources relevant to OHTs' efforts to improve outcomes for people with chronic conditions. They are organized below by: 1) organizations with a broad focus on chronic conditions; 2) those with a focus on each of the four chronic conditions singled out by OHTs (namely congestive heart failure, chronic obstructive pulmonary disease, dementia and diabetes); and 3) those with a broader focus than chronic conditions but one that is highly related to chronic conditions.

Table 3: Organizations as resources

Organization	Description
Alzheimer Society - Ontario	Improves the quality of life for Ontarians living with Alzheimer's disease and other dementias and advances the search for the cause and cure
CorHealth Ontario (formerly Cardiac Care Network of Ontario and Ontario Stroke Network)	Responsible for information planning, access and resource allocation as well as measure and reporting on quality and outcomes related to cardiac, stroke and vascular care
Diabetes Action Canada	<ul> <li>Pan-Canadian research organization that includes patient partners, researchers, diabetes specialists, primary-care practitioners, nurses, pharmacists, data specialists, and health policy experts committed to improving the lives of persons living with diabetes</li> <li>Host a national diabetes repository to monitor and prevent complications from diabetes</li> </ul>
Diabetes Canada, including its Ontario regional offices	Provides information, resources and tools to help people with diabetes better understand and manage their health
Ontario Health (Quality)	Monitors health-system performance, develops quality standards, and supports quality improvement across a range of areas, including care for people with chronic conditions
Heart and Stroke	Provides education and links to community-based initiatives to support heart health, including a free online risk assessment and six-month guided wellness program
ICES – Cardiovascular research program	Carries out population-based health research relating to cardiovascular care in Ontario and develops provincial indicators for evaluation and system monitoring
ICES – Chronic disease and pharmacotherapy research program	Carries out population-based health research relating to chronic conditions and pharmacotherapy in Ontario, and develops provincial indicators for evaluation and system monitoring
Kidney Foundation, including its Ontario chapters	National volunteer organization committed to providing education and support to prevent kidney disease in those at risk and empower those with kidney disease to optimize their health status, advocating for improved access to high-quality healthcare and increasing public awareness and commitment to advancing kidney health and organ donation
March of Dimes- After stroke	Offers support, education and community programs for stroke survivors, their caregivers, and families
Ontario Brain Institute	Provides access to research and data on brain health (including dementia and other neurodegenerative disorders)
Ontario Caregiver Organization	Access to information to support caregivers
Ontario Chronic Disease Prevention Alliance	Provides collaborative leadership to support a comprehensive chronic-disease prevention system for Ontario
Ontario Telemedicine Network	<ul> <li>Supports virtual care and virtual communities of practice, evaluates virtual care products</li> <li>Specific portals for the virtual team-based management of COPD, CHF and diabetes</li> </ul>

#### **Government-supported initiatives as resources**

Many government-supported initiatives are underway that aim to increase access to, and quality of, care for people with chronic conditions (Table 4). OHTs can draw on these existing initiatives to complement and strengthen their services for this priority population.

Table 4: Other initiatives as resources

Ontario Drug Benefit program, Special Drugs Program, and Exceptional Access Program	<ul> <li>Ontario Drug Benefit covers most of the cost of prescription drugs listed in the formulary (including most types of insulin, and blood testing strips) for Ontarians over the age of 65 or in receipt of social assistance</li> <li>Special Drugs Program covers the full cost of a specific set of medications</li> <li>Exceptional Access Program may provide coverage for drugs not listed on the OBD formulary in exceptional circumstances</li> </ul>
Assistive Devices Program	• Provides coverage and grants for specific assistive devices, including home oxygen to Ontarians with a physical disability of at least six months' duration, and insulin supplies to patients 65 or older who inject insulin daily and those with Type 1 diabetes who qualify
Ontario Monitoring for Health Program	Covers the testing supplies for Ontario residents who use insulin and are pregnant, or who are visually impaired and have no additional funding for these supplies (funded by the Ministry of Health and managed by the Canadian Diabetes Association)

### **Key legislation**

While many pieces of legislation touch on the lives of people with chronic conditions, none are particularly key to the development of population-health management plans in the way that legislation can be for the three other year 1 priority populations. Information about relevant legislation in the health sector more broadly can be found in chapter 2 of *Ontario's health system: Key insights for engaged citizens, professionals and policymakers*, which is <u>available for free</u> online.

Legislation	Description
Bill 175, Connecting People to Home and Community Care Act, 2020	<ul> <li>Received Royal Assent in July 2020 and will be proclaimed into force at a later date</li> <li>The Act lays the groundwork for Ontario Health to be responsible for funding home and community care providers integrated in Ontario Health Teams</li> <li>Home and community care regulations which will be included as part of the broader legislative framework are in development</li> </ul>

Additional resources focused on how to draw on evidence sources to improve patient care and experience can be found in <u>RISE brief 9</u>: <u>Evidence sources</u>. We will update this RISE brief on a regular basis as new resources, tools and legislation are identified. If you would like to propose additions or corrections, please email your input to <u>rise@mcmaster.ca</u>.

#### References

- Waddell K, Reid R, Lavis JN. RISE brief 6: Population-health management. Hamilton: McMaster Health Forum; 2020.
- <sup>2</sup> Ontario Ministry of Health, IntelliHealth. Death (Vital Statistics Death). Toronto: Queen's Printer for Ontario; 2019.
- Matheson, FI. 2016 Ontario marginalization index. Toronto: St. Michael's Healthcare. 2018. <a href="https://www.publichealthontario.ca/en/data-and-analysis/health-equity/ontario-marginalization-index">https://www.publichealthontario.ca/en/data-and-analysis/health-equity/ontario-marginalization-index</a> (accessed: 10 March 2020)
- 4 Damery S, Flanagan, S, Combes G. Does integrated care reduce hospital activity for patients with chronic diseases? An umbrella review of systematic reviews. BMJ Open. 2016;(6)11.

Dion A, Grimshaw J, Lavis JN. RISE brief 15: Resources to support population-health management for people with chronic conditions. Hamilton: McMaster Health Forum; 2020.

RISE prepares both its own resources (like this RISE brief) that can support rapid learning and improvement, as well as provides a structured 'way in' to resources prepared by other partners and by the ministry. RISE is supported by a grant from the Ontario Ministry of Health to the McMaster Health Forum. The opinions, results, and conclusions are those of RISE and are independent of the ministry. No endorsement by the ministry is intended or should be inferred.

ISSN: 2562-7309 (online)











>> Contact us

1280 Main St. West, MML-417
Hamilton, ON, Canada L8S 4L6
+1.905.525.9140 x 22121
rise@mcmaster.ca

>> Find and follow us OHTrise.org • forumHSS