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**STROKE NETWORK**  
*of Southeastern Ontario*

# Primary Care: Vascular Health Tools & Resources

Primary Care: Hypertension Update

March 9, 2016



# Faculty/Presenter Disclosure

- Faculty: **Stephen Sundquist & Colleen Murphy**
- Relationships with commercial interests:
  - Grants/Research Support: **None**
  - Speakers Bureau/Honoraria: **None**
  - Consulting Fees: **None**
  - Other: **None**
- Potential for conflict(s) of interest: **None**

# Objectives

## 1. Provide overview & connection to:

- Ontario Stroke Network (OSN) Primary Care Priority Activities:
  - Hypertension Management Program (HMP)
  - Initiatives: Vascular Health Assessment & Support Tool (VHAST), Vascular Health QI Toolkit & Medical Directives
- SEO Health Collaborative
- Vascular Health Resource on [SouthEasthealthline.ca](http://SouthEasthealthline.ca)

## 2. Seek feedback on resources/tools



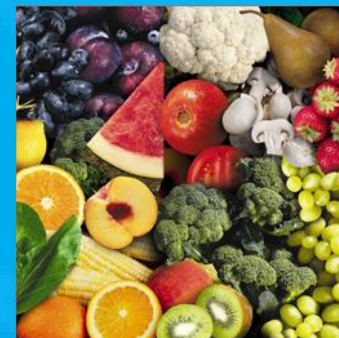
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# OSN Primary Care Focus March 2016

Advancing Integrated **Vascular Health**  
Care Capacity, Quality and Efficacy

# Hypertension Management Program (HMP)



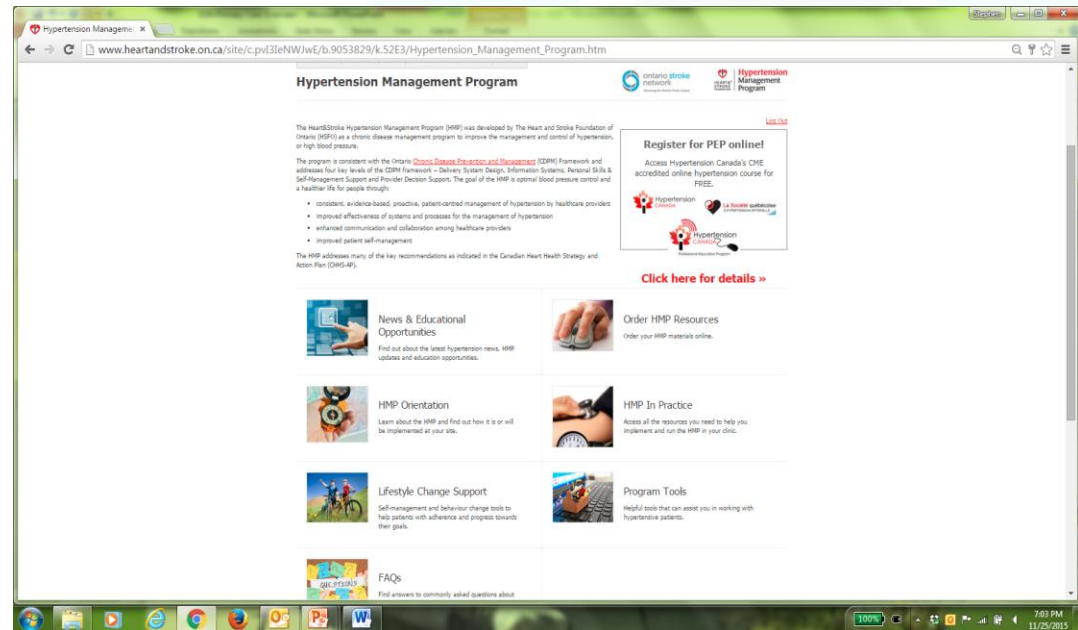
# HMP Overview

## Evidence-informed program developed to improve diagnosis, management & control of primary hypertension

- Education, practice support, provider tools to improve detection, management & treatment + resources promoting patient self-management
- HCP- and Patient-focused content developed & maintained by HMP team with input from Hypertension Canada, Heart & Stroke, CDA, & other partners
  - Content relevancy: always reflects current evidence, guidelines & best-practices
  - Health information consistency & minimal content redundancies/duplicate resources achieved through collaborations
- Program evaluations have repeatedly shown **significant reductions in SBP/DBP** as well as **positive changes in relevant labs** (E.g. cholesterol, glucose, A1c)

# HMP Overview – cont'd

- Operational infrastructure functions on a fully scalable, web-based delivery platform enabling sustainable program mgmt. & clinic support processes



- Use of Client Relationship Management software
  - Standardized program data - embedded forms/workflows, enhance internal communications
  - Embedded workflows & tracking for: engagement, implementation, operational status, site's unique configurations & requirements, clinical services delivery & technical support
  - Program metrics reporting
  - Dashboard view of staffing-, site-, program-level performance

# HMP Resources & Tools

Making Connections to the OSN-Led HMP

[www.heartandstroke.on.ca/hmp](http://www.heartandstroke.on.ca/hmp)



# HMP – Sites

- Current Participation: >55 primary care clinics (incl. 14 First Nations)



- + Planned: Active engagement with an **additional 27+ primary care sites & 8 aboriginal communities** seeking program adoption through FY16/17



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# OSN Vascular Health Primary Care Initiatives



# OSN – Leadership Primary Care Work Group (PCWG)

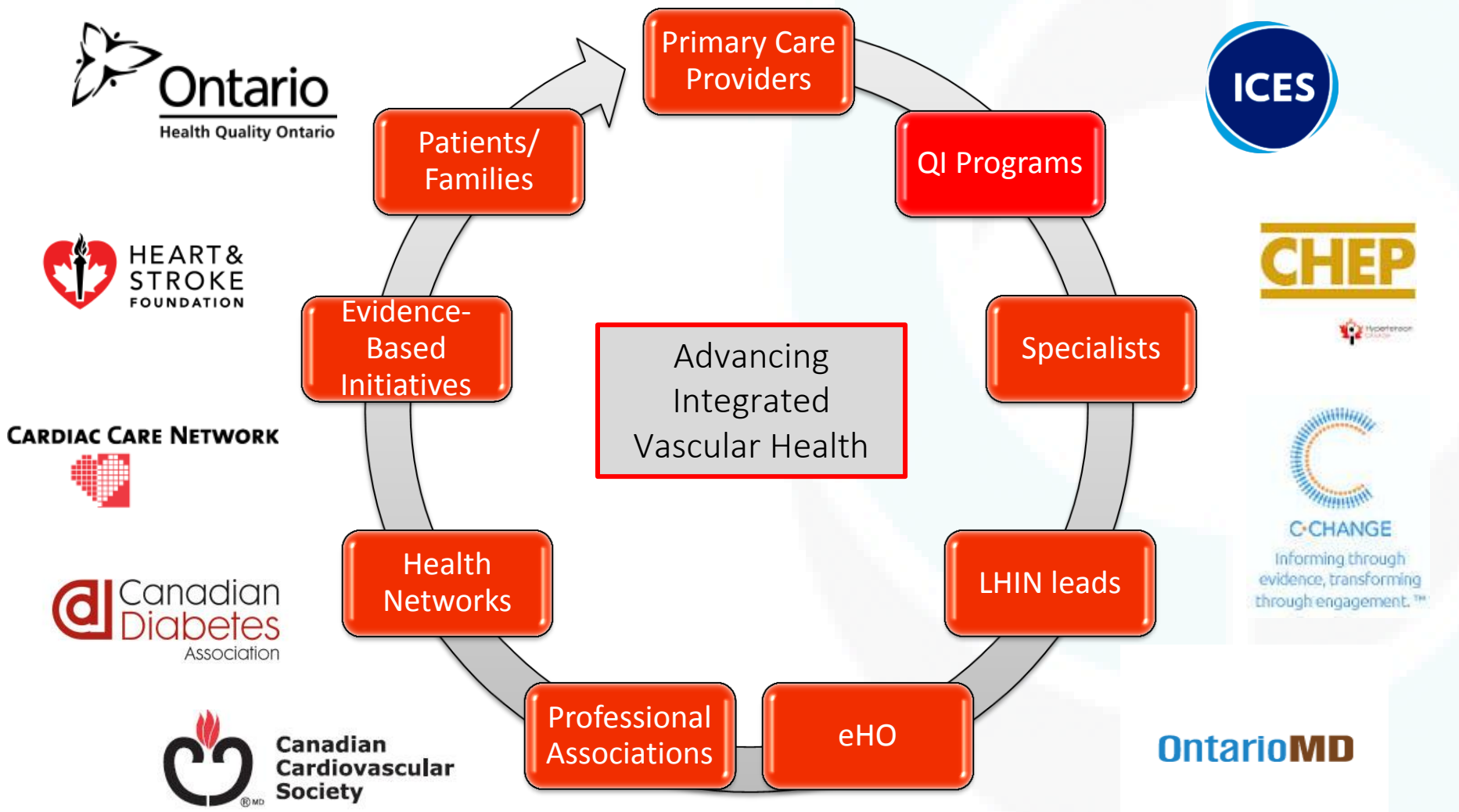
Following the 2012 *Vascular Health Blueprint for Ontario*, the PCWG was established to improve quality & access to continuum of vascular services by:



- Referencing HMP experience, evolving e-health technology & current system barriers/enablers to support implementation of Vascular Health (VH) best practices
- Recommending & disseminating targets, tools and strategies to:
  - Enhance use of best practices
  - Increase access to current, high-quality health information
  - Support collaboration between Specialists & Primary Care HCPs



# PCWG & Key Stakeholder Engagements





# Primary Care Priority Activities

- OSN-Hypertension Management Program (HMP)
- OSN-Led Primary Care Work Group Initiatives
  - Vascular Health Assessment & Support Tool (VHAST)
  - Vascular Health QI Toolkit
  - Vascular Health Medical Directives

# PCWG Priority 1: VHASt

Building on a “Proof of Concept” model & alpha prototype designed with primary care providers and stakeholders, the VHASt proposes to function within Ontario EMRs with embedded capability for clinical data to be compared against best practice guidelines, including C-CHANGE guidelines, at point of care.

## **VHASt:**

Comprehensive point-of-care, patient-centred, decision support resource building on effective elements of the OSN’s **Hypertension Management Program (HMP)**

# VHAST Prototype Goals

- Have straightforward, feasible specifications
- Include the following diseases/conditions:

Hypertension	Diabetes	Dyslipidemia	PAD
Angina/MI	CHF	CKD	Stroke/TIA

- Function within  Ontario MD funding-eligible eMR
- Leverage published **C-CHANGE** (2014) guidelines



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# VHAST Prototype Demo

Place Demo Here



# Prototype Achievements

- **VHAST prototype completion achieved October 2015**
  - “Proof of concept” features -
    - ability to pull existing data from an EMR offering
    - integrate care elements for the 8 vascular conditions
    - link data to relevant C-CHANGE recommendations
    - introduce value-added data transformations (Rx categorizing)
- **Key milestones achieved including-**
  - clinical and functional requirements gathered & logged
  - Usability Assessment Testing with 5 test cases by 12 different health care professionals at 7 Ontario PC organizations
  - report on findings including lessons learned

# Prototype Achievements

- **VHAST prototype completion achieved October 2015**  
“Proof of concept” features-
  - ability to pull existing data from EMR/MPR offering
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  - link data to relevant CHANG recommendations
  - introduce value added data transformations (Rx categorizing)
- **Key milestones achieved including:**
  - clinical and functional requirements gathered & logged
  - Usability Assessment Testing with 5 test cases by 12 different health care professionals at 7 Ontario PC organizations
  - report on findings including lessons learned

*“Covers a large number of patients in my practice & covers patients with more than one disease!”  
(PC physician)*

# Future VHASt Benefits & Value Proposition

Value	Current Environment	Future State-VHASt
Capacity	<ul style="list-style-type: none"> <li>Data elements &amp; flowsheets for 3 vascular conditions</li> <li>Not easily scalable</li> </ul>	<ul style="list-style-type: none"> <li>Data elements for any combination of 8 vascular conditions</li> <li>Design scalable</li> </ul>
Integration & Quality Improvement	<ul style="list-style-type: none"> <li>Search disparate, disease-centred views</li> <li>↓ Integrated CDM</li> <li>User-customized forms required</li> </ul>	<ul style="list-style-type: none"> <li>Easily access common care elements within an integrated, patient-centred view</li> <li>Capacity to manage multiple CDs concurrently</li> </ul>
	<ul style="list-style-type: none"> <li>Non-standardized data elements reside on individualized forms</li> </ul>	<ul style="list-style-type: none"> <li>Common data elements displayed in data fields within a consistent, standardized view</li> </ul>

# Future VHAST Benefits & Value Proposition

Value	Current Environment	Future State-VHAST
Clinical & Patient Decision Support	<ul style="list-style-type: none"> <li>▪ Disease-specific CBPGs dissemination vary</li> <li>▪ Limited access to integrated CBPG's in EMRs</li> <li>▪ Data alerts vary</li> </ul>	<ul style="list-style-type: none"> <li>▪ Point of care decision support via EMR-embedded, harmonized guidelines (including C-CHANGE)</li> <li>▪ Integrated care plan prompts for 8 vascular conditions</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Rx not categorized by class</li> <li>▪ Rx compliance per CBPGs not flagged consistently</li> </ul>	<ul style="list-style-type: none"> <li>▪ Categorizes vascular drugs</li> <li>▪ Comparisons of patient Rx &amp; CBPG-recommended drug therapy</li> </ul>
Support Patient Self-Management	<ul style="list-style-type: none"> <li>▪ No standard tracking of patients' readiness for modifying risk factors, lifestyle goals, or progress</li> </ul>	<ul style="list-style-type: none"> <li>▪ Incorporates tracking of patient lifestyle goals, priorities, behaviour change, progress &amp; supports</li> <li>▪ Links to patient education resources</li> </ul>

# PCWG Priority 2: Vascular Health QI Toolkit

- PCPs ID'd need for “Go To” VH QI Toolkit to assist in developing & implementing QI Plans or projects
- Drafted “companion” QI resource & overarching AIM
- Initial complimentary Vascular Health topics chosen:

Hypertension Screening & Management	Smoking Cessation
Abdominal Aortic Aneurysm (AAA) Screening	CKD Screening (patients with diabetes)

- Completed draft QI elements templates for AAA screening hypertension screening & management, smoking cessation, CKD screening (patients with diabetes)
- Future Plans: Test & evaluate with interested PC sites

## **Hypertension Management** – Improving screening, identification and management of hypertension for adult patients in Ontario

**How might our primary care team improve the processes within our clinic to support hypertension management for more patients?**



Imagine having access to information on patients in your practice/organization that facilitates identification of those whom would most benefit from hypertension interventions? Who would that patient be and how might the improvement change their care experience, their health journey, their life?

### The Reason for the Effort

- *Carol, age 67, was unaware that her blood pressure was uncontrolled and this has resulted in the decline of kidney function. Imagine being able to screen and follow the 'Carols' in your practice to ensure this does not happen?*
- *Ahmed, age 38, has a family history of high blood pressure but was shocked to learn that he has high blood pressure at his age. The screening program offered at his primary care clinic enabled him to learn about treatment options and self-management approaches to reduce risks for his cardiac and vascular health.*

## Background

Hypertension is a major risk factor for cardiovascular morbidity and mortality and is the highest ranking diagnostic category for drug expenditures in Canada <sup>1</sup>. In 2000, hypertensive heart disease, which includes high blood pressure and any conditions due to high blood pressure, was the leading contributor to cardiovascular disease drug costs (60.2%). Hypertensive heart disease accounted for 26.5% of physician costs <sup>2</sup>. In 2003, the estimated direct healthcare cost of hypertension in Canada was \$2.4 billion. In 2007, 21.1 million visits to community physicians were attributed to hypertension. With the current demographic changes due to the aging of the 'Baby Boomer' generation and an unusually large cohort born between 1946 and 1965, provincial health plans are grappling with how to plan for the 'silver tsunami' as this generation become senior citizens over the next 23 years.

Epidemiologic studies have indicated that, for people aged 40–69 years, each increase of 20 mm Hg in usual systolic blood pressure is associated with a doubling of mortality rates for stroke and ischemic heart disease. Hypertension also referred to as the 'silent killer', affecting 21.3% of the adult population (23.8% of men and 19.0% of women). Prevalence increases with age, from 3.4% among people 20–39 years of age to 51.6% among those 60–79 years of age. According to the Heart and Stroke Foundation of Ontario 2006 Ontario Survey on the Prevalence and Control of Hypertension (ON-BP), <sup>3</sup> there has been a significant improvement in the treatment and control rate since the Canadian Heart Health Survey: among those with hypertension, 65.7% are treated and controlled. However, one-third of Ontarians with hypertension are still not treated and their blood pressure is not well controlled. In a recently published study of hypertension management in Ontario primary care practices, screening, treatment and control rates were 92.5%, 86.4% and 44.9% respectively <sup>4</sup>.

## QI Initiative Elements

**QUALITY DIMENSIONS:** Effectiveness; Population health

**AIM:** Improve the screening, identification and management of hypertension for adult patients in primary healthcare teams in Ontario with a focus on patients at high risk for development of vascular diseases.

### **MEASURES: General Focus – Screening & Identification**

Outcome Measures	Process Measures	Balance Measures
	% of adult patients 18 years of age or older with a <u>B/P value</u> in the EMR *	
% of adult patients diagnosed with hypertension and w B/P value $\leq 140/90$	% of adult patients 18 years of age or older with a <u>diagnosis of hypertension</u>	

\*B/P values may be obtained during regular scheduled office visits or may be provided by patients in follow-up to B/P measurement at another location, e.g. community pharmacy.

### **MEASURES: High Risk Factor Focus – Screening, Identification & Management**

Outcome Measures	Process Measures	Balance Measures
	- % of adult patients 18 years of age or older with identified risk factors such as diabetes*	
% of adult patients w identified risk factor(s)* w B/P value $\leq 140/90$ in EMR	% of adult patients w identified risk factors such as diabetes* w B/P value in the EMR	

\* Risk factors include:

- o Diabetes
- o Vascular diseases – cerebral vascular disease (CVD), chronic kidney disease (CKD), peripheral arterial disease (PAD), coronary artery disease (CAD)
- o Behavioural activities - smoking
- o Other – Obesity
- o Ethnicity - Southeast Asian, African, Aboriginal



## CHANGE IDEAS:

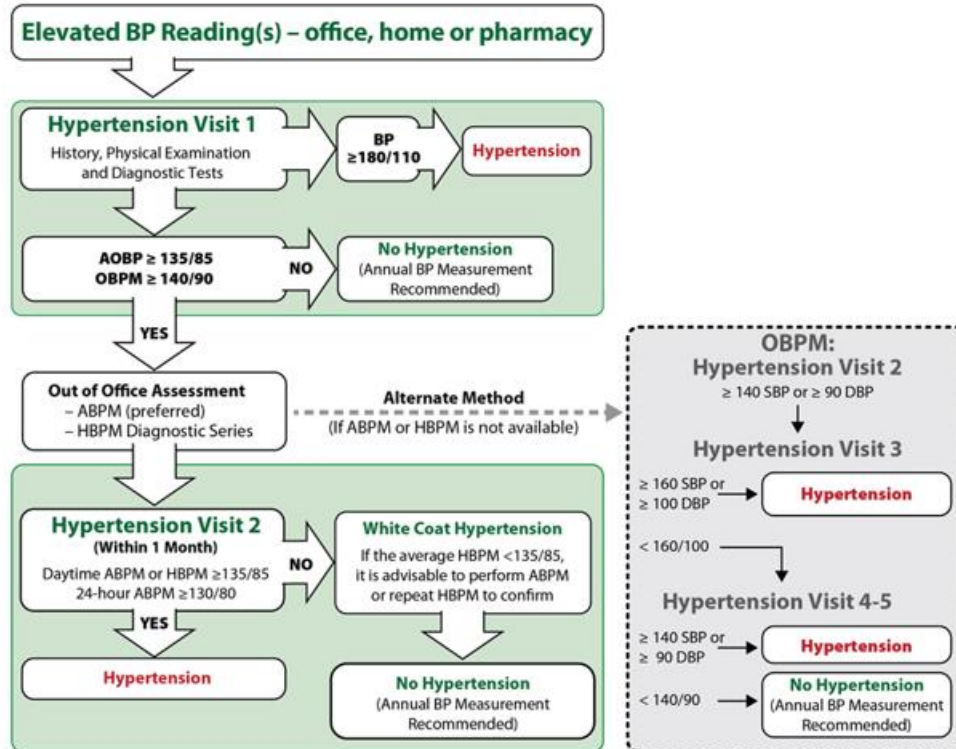
1. Focus on **data discipline** to support primary care providers to screen populations with the intent to measure blood pressure
  - Implement an evidence-informed hypertension flow sheet (e.g., OSN Hypertension Management Program Flowsheet; Vascular Health Assessment and Support Tool (VHAST) when available) for standardized, consistent assessment and documentation in electronic medical record (EMR)
  - Map the hypertension patient journey from diagnosis including anti-hypertensive medications where relevant
  
2. Decision support aids for patients
  - Implement the provision of website links, online and paper-based information tools to support self-management and increase awareness of hypertension risks and/or management of B/P, e.g. patient resources from the Ontario Stroke Network, **Hypertension Management Program (HMP)** (<http://ontariostrokenetwork.ca/hmp/>)
  - Implement the provision of website links, online and paper-based information tools to support self-management related to behavioural modification such as related to smoking cessation, weight loss, exercise programs
  
3. Decision support aids for health care professionals
  - HCP and staff training/education
  - Use of a hypertension medical directive (e.g., Vascular Health Medical Directives when available) to enhance capacity for interprofessional team collaboration in care delivery.



## Quality Improvement Tools

### Process Map

# Diagnosis of Hypertension



Measurement using electronic (oscillometric) upper arm devices is preferred over auscultation

**ABPM:** Ambulatory Blood Pressure Measurement

**AOBP:** Automated Office Blood Pressure

**HBPM:** Home Blood Pressure Measurement

**OBPM:** Office Blood Pressure Measurement

Hypertension Canada. (2015). Criteria for diagnosis of hypertension. Retrieved from <http://guidelines.hypertension.ca/diagnosis-assessment/diagnosis/>

### **Provider Resources**

The Ontario Stroke Network's Hypertension Management Program (HMP)

<http://ontariostrokenetwork.ca/hmp/>

Hypertension Canada

<https://www.hypertension.ca/en/chep>

### **Patient Resources**

[The Heart and Stroke Foundation of Canada-Blood Pressure Action Plan](#)

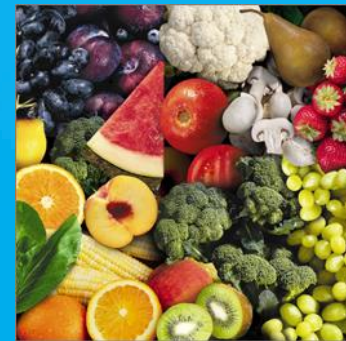
<https://etools.heartandstroke.ca/HeartStroke/BPAP.Net/Tracker.aspx>

[Hypertension Canada](#)

<http://guidelines.hypertension.ca/patient-resources/>



# Vascular Health Medical Directives



# Priority 3: Medical Directives

- Task Group established
- Survey circulated & completed to inform the Medical Directives topics & work
- Work plan developed and approved by PCWG
  - Compiled and organized sample medical directives received from PCWG members including ones collected from South East
  - Conducting Environmental Scan for additional medical directives
  - Reviewing & selecting smoking cessation & hypertension management medical directives
  - Reviewing plans with professional associations
  - Ensuring alignment with PC activities

# Contact Information

Stephen Sundquist  
Sr. Manager, Primary Care Programs  
Ontario Stroke Network  
T 416 489 7111 ext. 3240  
E [ssundquist@ontariostrokenetwork.ca](mailto:ssundquist@ontariostrokenetwork.ca)

Colleen Murphy  
Project Manager  
Primary Care Work Group  
Ontario Stroke Network  
T: 613 532 2728  
E: [cmurphy@ontariostrokenetwork.ca](mailto:cmurphy@ontariostrokenetwork.ca)

Chris Beaudoin  
Project Manager  
Health Information Initiatives  
Ontario Stroke Network  
T: 416 417 9162  
E: [cbeaudoin@ontariostrokenetwork.ca](mailto:cbeaudoin@ontariostrokenetwork.ca)



# SEO Health Collaborative: Primary Care Focus

Improving **Vascular Health** Through  
Integrated Approaches to Risk Factor  
Management



# Vascular Health Profile

Health Profile	2012 KFL&A	2012 SE	2012 Ontario	2014 KFL&A	2014 SE	2014 Ontario
Obesity %	22.6	22.0	18.0	16.7 ↓	20.7 ↓	18.3
Diabetes %	8.9	8.7	6.8	7.0 ↓	7.0 ↓	6.6
Hypertension %	18.7	19.8	17.4	21.7 ↑	21.7 ↑	17.6
Current Daily Smoker %	15.7	20.0	14.5	15.8 ↑	19.0 ↓	14.4
Heavy Alcohol %	17.1	18.3	15.9	18.3 ↑	19.4 ↑	16.9
Physical Activity %	63.4	60.5	50.5	62.5 ↓	59.9 ↓	53.8
Hospitalized Heart Attack (per 100,000 population)	210	218	207	180 ↓	200 ↓	198
Hospitalized Stroke (per 100,000 population)	108	127	125	111 ↑	122 ↓	119

Adapted from "Health Profile, June 2012 and 2014: South East Health Integration Network Ontario" by Statistics Canada, 2014. Retrieved from [www.statcan.gc.ca](http://www.statcan.gc.ca)

# Background

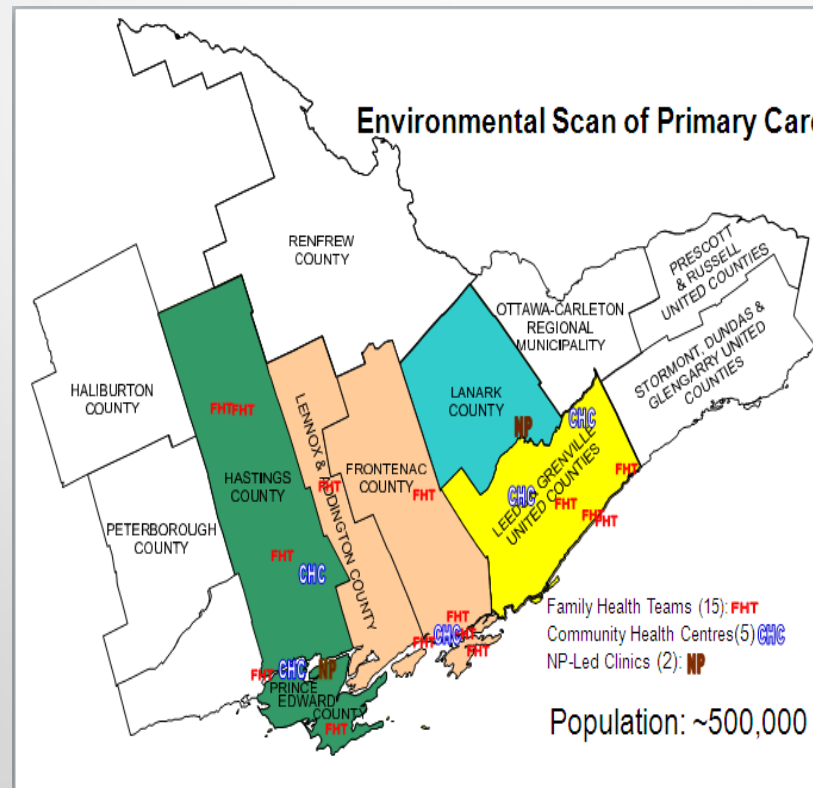
- SEO continues to have high rates of vascular diseases and risk factors
- SEO Health Collaborative
  - formed in Jan 2011
  - includes many partners: health networks, Primary Healthcare (PHC) organizations & public health
  - supports PHC in vascular disease risk reduction



**SEO Health  
Collaborative**

# Background

- In order to identify PHC needs and learn more about resources provided
  - Environmental scan & Think Tanks conducted



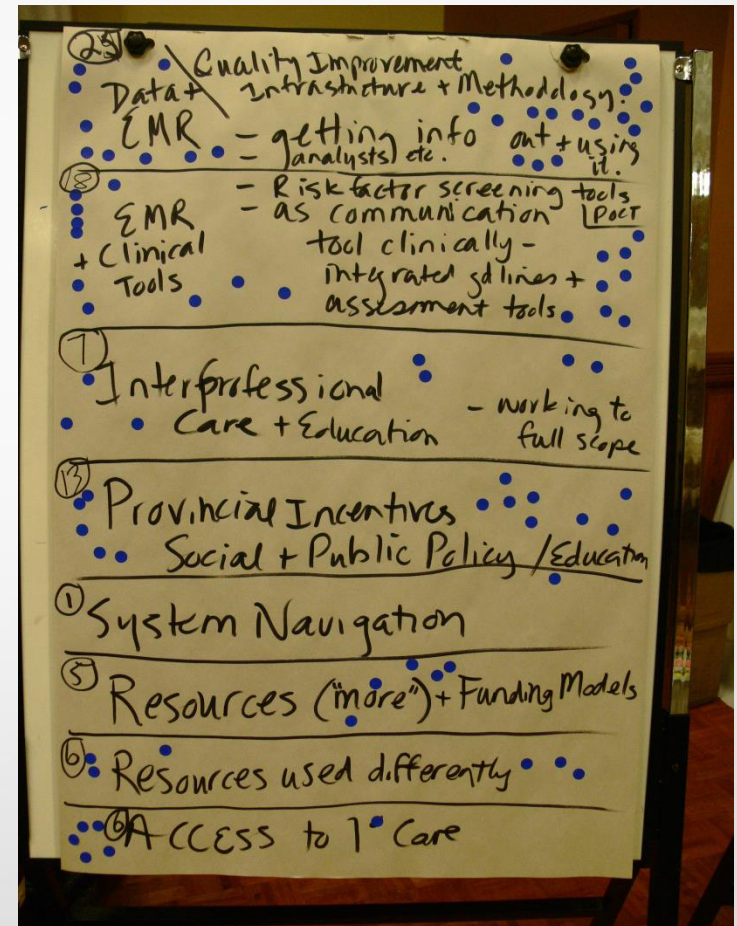
# Findings

- Sharing information between PHC organizations
- Facilitate consistency (e.g., documentation)
- Innovative ways for providing vascular health updates
- Improve connections
- Increase awareness/promotion of established resources



# Findings

- Use EMR to facilitate integrated vascular health
- One integrated patient-centred vascular health service (e.g., Global Risk Reduction program at the Upper Canada FHT)



## Southeastern Ontario Health Collaborative – FY 2015-16 Action Plan- March 2016

PRIORITY	ACTION	MRP	Timeline	Status Mar 2016
1. Support integrated vascular health QI initiatives within SE primary care- Focus on hypertension	i. Prepare to pilot the provincial Vascular Health QI Toolkit (Hypertension component) in a 2016-17QIP <ul style="list-style-type: none"> <li>• Identify at least one Primary Care agency willing to partner with the SEOHC to pilot the tool</li> <li>• Encourage FHTs to consider a “hypertension challenge”</li> </ul>	C. Murphy, SE LHIN QI facilitators QIDSs and M. Alden	Promote in 2015-16 to embed in a Primary Care QIP in 2016-17	√ underway
	i. Promote awareness of other components of Vascular Health QI Toolkit ( e.g.; medical directives) and related QI Toolkits	With support from Data Leads Group	Presentations given at QIDSs and PHCC May 2015	√ underway
2. One vascular health integrated guideline; integrated vascular disease prevention program with Community Partnerships	i. Promote opportunities within SE LHIN to trial new integrated vascular guidelines and tools <ul style="list-style-type: none"> <li>• Promote awareness of Ontario Vascular Health Assessment and Support Tool (VHAST)</li> <li>• Presentations at QIDSs and PHCC</li> <li>• Deliver a demo at Primary Care Forum when ready, likely 2016</li> <li>• Pilot VHAST with at least one Primary Care agency in SE LHIN when ready- likely 2016</li> </ul>	C. Murphy and A. Steacie with Primary Care workgroup of OIVHS and SE LHIN Primary Care Leads	VHAST prototype developed in OSCAR. Awaiting availability for trial.	√ ongoing
	ii. Promote related resources such as Queen’s <i>Exercise is Medicine</i> toolkit, C-CHANGE	All members of SEOHC.	Presentations given at QIDSs and PHCC May 2015	Display table at Primary Care Forum Sept 2015
3. System Navigation:– on-line SE Vascular Resource Directory	i. Pilot test and launch an on-line community resource directory of vascular health services within HealthLine <a href="http://www.SouthEastHealthLine.ca">www.SouthEastHealthLine.ca</a> <ul style="list-style-type: none"> <li>• Pilot summer 2015</li> <li>• Work with CCAC to refine in response to pilot</li> <li>• Develop promotional material</li> <li>• Launch at Primary Care Forum display table Sept 2015</li> </ul>	Workgroup: Dr Steacie, C. Murphy, M. Jaquith with R. Phillips, CCAC	Pilot the directory summer 2015; refine	√
4. Support SE Indigenous Health Council (IHC) vascular health initiatives	i. Maintain communication with and support for Indigenous Health Council (IHC) Initiatives: ii. ICHAP and Social Cultural Circles <ul style="list-style-type: none"> <li>• Salmon River Health Link &amp; Stroke Network support</li> <li>• Present to other indigenous communities; consider spread</li> </ul> iii. Promote unique needs within Health Links <ul style="list-style-type: none"> <li>• Learn from Salmon River Health Link’s workgroup</li> </ul>	M. Buchanan, M. O’Leary with IHC and SR Health Link and Stroke Network SEO	Sustain ICHAP protocol within Salmon River HL	√
			Meet with IHC fall 2015 to discuss opportunities for spread to other communities	√ ongoing

## HEALTH SERVICES FOR SOUTH EAST

March 2, 2016

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### NEWS

Tuesday February 23, 2016  
[2016 KFL&A Family Advocacy Award winner announced](#)

Tuesday February 23, 2016  
[Brockville General Hospital Cardiovascular Program](#)

Tuesday February 23, 2016  
[Chief Medical Officer of Health on Zika Virus](#)

### EVENTS

Wednesday March 2, 2016  
[50+ Senior Centre - Stitches, Mahjong, VON Falls Prevention - Belleville](#)

Wednesday March 2, 2016  
[VON Canada's SMART Exercise Program - The Royal RH - Kingston](#)

Wednesday March 2, 2016  
[VON Canada's SMART Exercise Program - Knights of Columbus -](#)

### CAREERS

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**Vascular Health Resources**

**Stroke Resources**



# Vascular Health Resources

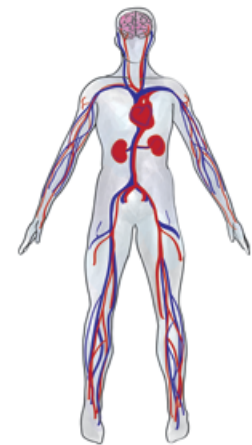
The goal of this initiative is to provide a user-friendly online resource for health professionals and health care consumers in their efforts to improve vascular health and system navigation.

**Vascular diseases** is a term for a wide range of diseases that affect the vascular or blood vessel systems of your body. They can include certain heart diseases such as coronary artery disease, kidney disease, stroke, diabetes and dementia. These diseases are different but are linked by common risk factors such as hypertension, physical inactivity and poor nutrition. This directory helps users navigate the services available for reducing their risk, managing vascular diseases, and living with the disease.

**Vascular Health Promotion**  
Reducing Risk

**Managing Vascular Disease**  
Assessment, Treatment and Secondary Prevention

**Living with Vascular Disease**  
Support Services



This Vascular Health Resources listing in the Health Library of [SouthEasthealthline.ca](http://SouthEasthealthline.ca) was created in collaboration between the Southeastern Ontario Health Collaborative and the [South East Community Care Access Centre](#).



# Let's Visit the Site

- [Vascular Health Resources](#)

# Contacts

Questions/Feedback about the Vascular Resource on SouthEasthealthline.ca can be directed to:

- Rebecca Phillips  
Community Relations Coordinator - I&R Services  
South East Community Care Access Centre  
[Rebecca.Phillips@se.ccac-ont.ca](mailto:Rebecca.Phillips@se.ccac-ont.ca)  
Phone: (613)345 5719 x5636 Fax: (613)283 0308

OR

- Colleen Murphy  
Regional Stroke Best Practice Coordinator  
Stroke Network of Southeastern Ontario  
E: [murphyc2@kgh.kari.net](mailto:murphyc2@kgh.kari.net)  
C: 613-532-2728



# Resources

- Ontario Stroke Network: [www.ontariostrokenetwork.ca](http://www.ontariostrokenetwork.ca)
  - Hypertension Management Program
  - Primary Care Programs
- Stroke Network of Southeastern Ontario:  
[www.strokenetwork.ca](http://www.strokenetwork.ca)
- [SouthEasthealthline.ca](http://SouthEasthealthline.ca)