



# Champlain Falls Prevention Strategy

Senior Friendly Forum March 26, 2015

Presenter: Jane Adams Champlain Falls Prevention Strategy Regional Geriatric Program of Eastern Ontario Champlain Local Integration Network

## Why are falls important?

## And why is Falls Prevention important?

What are we doing as a region?



## Mrs J: Before a Regional Falls Prevention Strategy

- 81 yr-old widow
- Few medical issues;
- Seen in Emergency Department for fractured wrist after fall.
- Feels fearful and is becoming more isolated
- Worries about being a burden; contemplating retirement home but worries about the cost.



## **National Falls Statistics**

- 1) 1 in 3 seniors fall annually
  - Half of seniors who fall, do so repeatedly

## 2) 1 in 4 falls result in injuries

- Lacerations, sprains, head injuries, death.
- Every 10 minutes in Ontario, at least one older adult visits an ED due to a fall
- Every 30 minutes in Ontario, at least one older adult is admitted to hospital due to a fall

Ontario Injury Prevention Statistics, 2007-2008; Smartrisk, 2009 Public Health Canada 2014

### **Prevalence of falls**

- Falls cause more than 90 per cent of all hip fractures in the elderly and 20 per cent of seniors who suffer a hip fracture die within a year.
- A single hip fracture costs \$24,600 to \$28,000 in direct health costs to the system. Almost half of people who sustain a hip fracture never recover fully.

40% of Long-term Care admissions are due to Falls



## Why we took a systems approach.

#### The Good News!

- Programs and strategies targeted towards seniors have demonstrated a reduction of falls amongst seniors by 20% and more (SMARTRISK, 2006).
- 20% reduction in falls among seniors aged 55 years and over could result in 1,000 fewer permanent disabilities and 4,000 fewer hospital stays. The direct health care costs avoided would amount to almost \$121 million annually (SMARTRISK, 2006).
- With a mean length of stay for a falls-related injury being approximately 15 days, 4,000 hospital admissions can equate to a significant number of hospitals days avoided (Scott, Wagar & Elliott, 2010).

<u>15 X 4000 = 60,000 days</u>

## **Reducing Risk:**

- Matching interventions against risk factors can reduce the patient's risk of falling. This occurs when the "root cause" of the risk factor's presence is eliminated. (Hendrich et al., 2004).
- Coordinated, community-wide, multi-strategy initiatives to prevent falls have been shown to significantly reduce falls-related injuries in seniors by between 6% and 33% (McClure et al., 2005).

## Strategic Approach to Falls Prevention in Champlain

# Provincial Strategy 2011 The Tool Kit

**Champlain Phase 1: Foundations** 

(Dec 2012-March 2013)

- Collaboration with Primary Care, Champlain LHIN, 4 PH Units & RGPEO and community stakeholders
- Governance structure
- Survey of community agencies to determine approp interventions
- Performance measurement

#### Phase 2 – Taking Action June 2013-March 2014

Specific deliverables as part of funding approval for 2013-2014:

 Develop and test a Falls Prevention Algorithm and complementary tools (Develop and refine tools that are useful for Primary and Community Care (based on survey results)

### • Develop a Strategic Framework

Strategic Framework to support the reduction of falls across the region: 6 foundational pillars

#### **Deliverable 1: Develop and Test Falls Algorithm and Tools**

**Primary Objective:** To support the appropriate assessment, intervention and referral of older adults at risk of falls, within primary care

#### Steps

1) Standardize and link tools to support primary care:

### • Falls Prevention Algorithm for primary care (from AGS/BGS)

Modifications and additions made to original AGS/BGS to flesh out assessment component and add use of **standardized community assessment tool (GAOT)** Prioritized: Most modifiable first

Make it practical/useful for office/primary care use

- Staying Independent Checklist/ <Préserver votre autonomie> (for use in the community)
- Web links developed with ChamplainHealthline, PHUs and RGPEO websites for more in-depth clinical information and resources for referral and health promotion

2) Evaluate and report

### **Tested and evaluated in Primary Care**

Piloted in 4 Primary care sites (Nov-Mar 2013-4) :

- CHC X2 (Eastern Counties and Ottawa)
- FHT, (French, urban)
- Rural sole practitioner

and an information and feedback session held in Renfrew

Evaluation based on:

- Relevance and usefulness
- Knowledge increase
- Change in practice

#### What we learned:

108 patients screened and 32% identified as needing further assessment
 Highlights: - Majority agreed that *algorithm* was easy to follow, to understand and that they plan to use it with their patients

- Majority of participants agreed that the *checklist* was easy to read and that they plan to use it with patients.

- ½ of the participants had viewed the <u>www.rgpeo.com</u> or <u>champlainhealthline.ca</u> websites and on average 83% plan to use them in the future.
- All participants agreed that the skills required to complete falls assessments are skills that are appropriate to primary care – but they may not yet have the efficiencies to put them into practice
- Barriers identified were largely on the need for integration into an EMR and into office procedures.

#### **Recommendations:**

 Review and refine the algorithm and support package, expand into the community sector, integrate and link with work being done in Primary care, explore development of EMR.

### **Deliverable #2: Develop Strategic Framework**

### **Champlain Falls Prevention Strategy for Seniors**



Pillar 1 Public Awareness

Consistent approach and messaging across Primary Care, all four Public Health Units and community services

Four Public Health Units developed the Regional Falls Prevention messaging – part of the algorithm and incorporated into a PSW training module

Coordinate dissemination of Staying Independent Checklist. Pillar 2

Detection, Diagnosis, Intervention

Evidence-based Algorithm for detection diagnosis and intervention refined and implemented in a variety of primary care and community settings in the region.

Algorithm ready to be incorporated into electronic medical record and other adaptations

- Processes and supports established for primary care and community support service settings
- Larger scale rollout of the algorithm across community, primary care and other health care settings

Pillar 3 Best Practices for Health Care Providers Identified education and lesson plans for health care providers

Ensured all initiatives are evidence-based and standardized across sectors and region

Determined need for Falls Prevention training modules in different modalities

Education module for Personal Support Workers across Champlain to support Falls Prevention in daily practice, including use of Staying Independent Checklist

Develop on-line accredited Continuing Medical Education module for physicians and health care professionals Pillar 4 System Navigation

Developed a referral framework for referring to regional Falls Prevention services

More seniors will find, have access to and attend Falls Prevention, exercise classes and services.

#### Pillar 5 Performance Management

Developed tools, processes and structures to monitor project performance

- Governance structures in place, including multi-sectoral committee
- Developed provincial and local Falls Prevention metrics and data collection processes.

Pillar 6 Advocacy

> Present case to key stakeholders to advocate for standardized falls prevention curricula and appropriate funding mechanisms

Increased awareness and knowledge of need for standardized curricula

Increased awareness and knowledge of need for appropriate funding mechanisms.

### Phase 3 – Implementation and Integration

#### 2014-2015 Initiatives

#### Algorithm and checklist revised and refined

- Presented to the Primary Care Network;
- EMR development underway

#### Best Practices and Education

- Education plan for Comm Support Agencies: Module developed for PSWs
- Primary Care/Community Initiative (Barry's Bay)
- Education and protocol in selected (5)retirement homes and EMS programs
- Development of CME online, accredited falls prevention module
- RGP Assessor in primary care (Ottawa) providing clinical assessments in primary care in conjunction with memory clinics where fall risk is identified
- > **Primary Care Outreach** in collaboration with Community Health Centers
- Roll out by LHIN/Public Health : 1) primary care Feb 2015; 2) community agencies April and 3) seniors and the community at large June
- Navigation tool being developed by CCAC, Public Health and CHCs



## Why community and primary care?

Dr. Laurence Rubenstein (the author of the Staying Independent Checklist) wrote: "because older adults often do not complain to physicians about these problems, they may go undetected and untreated until after preventable injury and disabilities have occurred." Detection and Management of Falls and Instability in Vulnerable Elders by Community Physicians; JAGS 2004, 52: 1527-1531

#### and

"clinicians should inquire regularly about falls and instability and use careful and thorough diagnostic approaches to identify the most likely causes, contributing factors, and associated comorbidities many of which will respond to intervention."

American Geriatrics Society, British Society and American Academy of Orthopedic Surgeons panel on falls prevention. Guideline for the prevention of falls in older persons. J Am Geriatr Soc 2001, 49: 664-772



All adults 65+ should be screened for falls on an annual basis in community programs or with a Primary Care Practitioner. Consider use of "Staying Independent Checklist' \*



Algorithm based on AGS and BGS Geriatric algorithm: http://www.emaricanoeriatrics.org/health\_care\_professionals/clinical\_guidelines\_recommendations/prevention\_of\_fails\_summary\_of\_recommendations/\_\*Staying independent Checklist evaluation of the summary of recommendations/\_\*Staying independent evaluation of the summary of recommendation of the summary of recommendation

#### Primary Care Multifactorial Risk Assessment for Falls

CHECK ALL THAT APPLY

For Comprehensive Medical Assessment See RGPEO Website: <u>stopfalls.ca</u>

1. History of Falls:       Evaluation of Gall, Balance and Strength         Complete history of requency and circumstances of the fall(s)       Evaluation of Gall, Balance and Strength         Acute or fluctuating medical conditions (e.g. syncope, selzures, hypohyperglycemia, symptomatic postural hypotension, etc)       Recommended: TIMED UP and GO(TUG):         Chronic medical (e.g. osteoporosis, urinary incontinence, cardiovascular disease, etc)       The the inhibital as the rises from am a firm their (an push of from and pace (with walking) ail if fromally used, time a consider MMSE - results:       ModCA results:         2.A. Medications       ModCA results:       ModCA results:       Pace (with walking) ail if fromally used, time and returns to other.         2.A. Medications       Sitting       Doptypharmacy (6+)       Alcohol intake       Piescription, over the counter, illicit,       Depolypharmacy (6+)       Alcohol intake         Deressed to provide set orghidocations (including sedative hypnolics, anxiolytics, antidepressants)       Lying       Sitting       Sitting <t< th=""><th></th><th></th></t<>		
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Client's perceived functional ability / Fear related to falling: contributing to deconditioning or curtailment of physical activities		
	Client's perceived functional ability / Fear related to falling: contributing to deconditioning or curtailment of physical activities	]

Jan 2014: Developed by Geriatrio Outreach Assessment Team, Regional Geriatrio Program of Eastern Ontario: Based on 2010 AG8/BG8 Clinical Practice Guideline: Prevention of Falls in Older Persons

#### Standardized self-assessment tool - in French and English

#### STAYING INDEPENDENT

Falls are the main reason why older people lose their independence.



#### Are you at risk?

For more information on exercise and falls prevention programs contact Champlain CCAC at 613 310-2222 or www.champlainhealthline.ca

This initiative is sponsored by the Champlain Local Health Integration Network and the 4 regional health units.



#### **Check Your Risk for Falling**

Please circle "Yes" or "No" for each statement below. Why it matters				
Yes (2)	No (0)	I have fallen in the last 6 months.	People who have fallen once are likely to fall again.	
Yes (2)	No (0)	I use or have been advised to use a cane or walker to get around safely.	People who have been advised to use a cane or walker may already be more likely to fall.	
Yes (1)	No (0)	Sometimes I feel unsteady when I am walking.	Unsteadiness or needing support while walking are signs of poor balance.	
Yes (1)	No (0)	I steady myself by holding onto furniture when walking at home.	This is also a sign of poor balance.	
Yes (1)	No (0)	I am worried about falling.	People who are worried about falling are more likely to fall.	
Yes (1)	No (0)	I need to push with my hands to stand up from a chair.	This is a sign of weak leg muscles, a major reason for falling.	
Yes (1)	No (0)	I have some trouble stepping up onto a curb.	This is also a sign of weak leg muscles.	
Yes (1)	No (0)	I often have to rush to the toilet.	Rushing to the bathroom, especially at night, increases your chance of falling.	
Yes (1)	No (0)	I have lost some feeling in my feet.	Numbness in your feet can cause stumbles and lead to falls.	
Yes (1)	No (0)	I take medicine that sometimes makes me feel light-headed or more tired than usual.	Side effects from medicine can sometimes increase your chance of falling.	
Yes (1)	No (0)	I take medicine to help me sleep or improve my mood.	These medicines can sometimes increase your chance of falling.	
Yes (1)	No (0)	I often feel sad or depressed.	Symptoms of depression, such as not feeling well or feeling slowed down, are linked to falls.	
Add up the number of points for each "yes" answer.         TOTAL         If you scored 4 points or more, you may be at risk for falling.         Discuss this brochure with your doctor or health care practitioner.				
This checklist was developed by the Greater Los Angeles VA Geriatric Research Education Clinical Center and affiliates and is a validated fall risk self-assessment tool (Rubenstein et al. J Safety Res; vol. 42, n°6, 2011, p. 493-499). Adapted with permission of the authors.				

NOTES

Primary Care Providers: For more information about the Champlain Falls Prevention Strategy, the Staying Independent Checklist, and the clinical algorithm go to: <u>http://www.rgpeo.com/en/health-care-practitioners/falls-prevention-program.aspx</u>



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#### **Falls Prevention**

The Champlain Falls Prevention Strategy aims to reduce the frequency, severity and impact of preventable falls among older adults living in the region. The strategy was developed by the Regional Falls Steering Committee, in collaboration with hospitals, primary care and community support services.

The following resources are intended to help physicians assess the risk of falls, while providing an updated list of physiotherapy, exercise and community programs related to falls prevention.

#### Specialized Geriatric Services

Geriatric services provide health care specifically related to aging, in particular the frail elderly who have multiple health problems or who have difficulty managing on their own.

- When to Refer to Geriatrics
- View list of specialized geriatric services
- Link to RGPEO website Falls Prevention page (for geriatric resources)



CLIPBOARD [0]

#### Falls Prevention Programs

These are evidence-based programs with a falls prevention focus, including assessments and/or interventions that may be accompanied by physiotherapy services and educational classes on falls prevention.

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Health Care Practitioners RGPEO Specialized Geriatric Services		Falls Prevention Program The Regional Geriatric Program of Eastern Ontario, in partnership with the Champlain Local Health					
Senior Frien	dly Hospitals	Integration Network and a broad group of community partners have lead the development of a Champlain Falls Prevention Strategy. This strategy builds on the extensive work developed by the Ministry of					
Professiona	Professional Development Health and Long Term Care which places a strong emphasis on the prevention of falls in the C Integrated Falls Prevention Strategy and whose objective is to: "improve the quality of life for the structure of the structur						
Resources		seniors aged 65 years and over and lessen the burden of falls on the health care system by reducing					
Research		the number and impact of falls."					
Resource Co	entre on Aging	The Champlain Falls Prevention Strategy includes the development of assessment and intervention			ntion		
Employment	Employment Opportunities tools and resources to support primary care practitioners in identifying the root causes of falls amor seniors and to put into place the appropriate interventions to reduce the number of falls and the injure						
SGS Wait Tin	nes	related to falls. The following pages provide a framework, tools, and resources to support a transfer of			-		
Falls Prever	tion Program	knowledge into everyday clinical practice and the key factors involved in falls prevention.					
Fall Risk Asse Intervention	essment and	2 <u>Communi</u>	Assessment and Intervention res ty Resources	sources	-		
		3 <u>Other Res</u>	sources				

Aging Successfully

## Regional Geriatric Program of Eastern Ontario Programme gériatrique régional de l'Est de l'Ontario

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Health Care Practitioners RGPEO Specialized Geriatric Services Senior Friendly Hospitals Professional Development Resources Research Resource Centre on Aging Employment Opportunities SGS Wait Times Falls Prevention Program	<ol> <li>Obtain relevant cognitive and</li> <li>Determine mut</li> <li><u>Medications</u></li> <li><u>Postural hypote</u></li> <li><u>Gait, balance and</u> related mobility</li> <li><u>Visual acuity</u></li> <li><u>Other neurologie</u></li> <li><u>Heart rate and relevant</u></li> </ol>	<u>nd mobility and muscle strength</u> <u>cal impairments</u> <u>rhythm</u> ssess calcium intake and fractu	falls, physical exam ntify root cause. ing.	nination, including and Test). Evaluate p	ain-

### **Chair Stand Test**

Primary Care Fall Prevention	Chair Stand Test
How to do the Chair Stand Test	
Purpose: To assess leg strength and endurance.	
Equipment:	
<ul> <li>A chair with a straight back without arm rests (seat 17" high)</li> <li>A stopwatch</li> </ul>	<b>M</b>
Instructions to the patient:	7
1. Sit in the middle of the chair.	- A
2. Place your hands on the opposite	
shoulder crossed at the wrists.	
3. Keep your feet flat on the floor.	
4. Keep your back straight.	
5. On "Go", rise to a full standing position	
and then sit back down again.	
6. Repeat this for 30 seconds.	
On "Go", begin timing.	
Count the number of times the patient comes to a full standi	ng position in 30 seconds.
If the patient is over halfway to a standing position when 30 as a stand.	seconds have elapsed, count it
Record the number of times the patient stands in 30 seconds	-
Number: Rating (See chart):	
A below average rating indicates a high risk for falls.	_
A below average racing indicates a high risk for fails.	
Notes:	
	PAGE
The SeniorsBC.ca	BC INJURY research and CE//FI

## **Benefits of a Regional Strategy**



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## Anticipated Outcomes of a Regional Strategy

- 10% decrease in rate of falls-related Emergency Department visits
- Decrease in rate of repeat falls-related Emergency Department visits
- Decrease in rate of falls-related admissions to hospital
- Decrease in rate of falls-related admissions for hip fractures

## **Challenges and Opportunities**

- Growing number of seniors:
- O In 2015 there will be 203,703 seniors over 65 in Champlain
- By 2020 there will be 243,939
- In 2025 there will be 292,798
- With awareness comes demand
- Seniors with complex needs require timely access to resources
- Integration with other senior strategies.

### Mrs Smith: In an integrated, prevention-oriented world

- 81 yr-old widow
- Few medical issues
- Occasionally uses a cane; has some lightheadedness, but not discussed with her family physician. Thought she was well "for her age."
- Attended Flu Clinic and completed Staying Independent Checklist
- Checklist reviewed by team at doctor's office as per the algorithm.

#### Outcome:

- Ongoing review, evaluation and intervention of Falls Risk
- Improved strength and balance leading to improved confidence and independence
- Improved social contact and well-being



## Over the next five years we plan to ....

- Increase Falls Prevention awareness and engagement to seniors and front line workers
- Work across the sectors to identify and <u>improve</u> the best practice falls prevention programming capacity, - need to ensure services including specialist services, to meet the needs of seniors
- Continue to ensure that health care providers across all sectors are using current evidence informed practices in Falls Prevention service delivery
- Gain commitment across all regional agencies to align themselves with the strategy and identify processes to ensure smooth transitions for seniors and caregivers across the continuum.
- Ensure our governance and evaluation structures are current, relevant and valid
- Ensure synergy with other regional senior strategies
- Link and partner with community agencies and programs such as Alzheimer's Society, Osteoporosis;
- Link and partner with Long Term Care



## **Follow Up**

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