

Meeting the current and future health needs of the senior population in LHIN 4

Malcolm Hartman¹, John N. Lavis²

¹Bachelor of Health Sciences (Honours), McMaster University; ²MD, PhD, Director, McMaster Health Forum, and Professor, McMaster University

Background

As the older adult demographic grows, the Hamilton Niagara Haldimand Brant Local Health Integration Network (LHIN 4) faces the challenge of how to best address the resulting health and financial pressures. Older adults currently account for 20% of Emergency Department (ED) visits, 63% of total hospital days, and 83% of alternate level of care (ALC) days in LHIN 4.(1) While this is recognized as a health-systems challenge that needs to be addressed, identifying the underlying problems, potential solutions, and key implementation considerations, remains unaddressed.

Objectives

To inform deliberation within LHIN 4 regarding the health challenges older adults face, along with potential approaches to address these challenges, based on the best available research evidence.

Methods

Preparing evidence briefs

The evidence brief was prepared in three stages. First, key informants (KIs) were interviewed and feedback was used to iteratively revise the terms of reference for the evidence brief. Second, relevant information regarding the problem, options, and implementation considerations was identified, appraised, and synthesized. Systematic reviews were given priority. Published literature was identified by searching PubMed, using the health services research filters and Health Systems Evidence. Third, the key messages were synthesized in an evidence brief.

Convening a stakeholder dialogue

The evidence brief will be used to prompt discussions in a stakeholder dialogue. The dialogue will convene participants who: have unique views/ experiences relating to the challenge, be open to learning from the research evidence and the views/ experiences of others, and champion the lessons within their communities.

Results

- We interviewed seven KIs, including policymakers, managers in a central delivery agency, staff members of a health provider, researchers in a university in the jurisdiction and researchers
- We identified 56 systematic reviews which addressed some aspect of the approach to address the problem.

Summary of key factors contributing to the problem

Issue	Factors contributing to the issue
The older adult population is growing, along with	LHIN 4 currently services 260,000 older adults and this is projected to grow to 360,000 by 2025.(2)
their demand for health and social services	Approximately 90% of Canadians would prefer to live independently in their communities and age at home.(3)
Existing programs and services may not be meeting	• There are likely unmeet needs for home care service in LHIN 4, as the number of home care clients has increased while the division of funding
the needs of older adults	allocated to LHIN 4's Community Care Access Centre remains constant.(4,5)
	• Senior Friendly Hospital (i.e., evidence-based approaches to improve senior care) indicators have shown negative trends, or fallen behind provincial
	levels.(6)
Existing health system arrangement (e.g., delivery,	There is a lack of healthcare professionals with geriatric training (1)
financial, and governance) are not optimally	• Seniors or their families often have to pay out-of-pocket for expenses including physiotherapy, dental care, nursing care, transportation to medical
structured to meet the needs of an aging population	appointments, rehabilitation services and home care.(7,8)

Summary of key findings from systematic reviews related to three elements of an approach to address the problem

Element	Summary of key findings from systematic reviews
Support older adults and	Several high and medium quality reviews were found which support the use of online information tools with evidence-informed interventions, and education/training and
their caregivers to promote	support for caregivers.(9–14)
healthy aging at home	 There is weak evidence supporting the use of patient portals, however the majority of literature points to this option having no effect on health status (24,25)
	 Several reviews were found to support the benefits of remote patient monitoring (26–28) However, the majority of these reviews were focused on specific disease states.
	 We did not identify any reviews with respect to the benefits or harms of flexible working arrangement for caregivers.
Coordinate community	 Several high and medium quality reviews support case management and its association with improved health outcomes (29–31)
resources that support	 No reviews were identified to support the benefits of community/civic engagement for older adults.
healthy aging	 We identified no reviews supporting funding models that ensure that community resources are used efficiently (e.g., means tested home-care).
Support healthcare	Several high quality reviews were identified to support the association between discharge planning and reduced readmission rates and length of stay.(32–35)
institutions and other	A medium quality review indicates that dementia communication training leads to an improved quality of life for patients. (36) Furthermore, geriatricians (i.e., physicians with
sectors in promoting	specialized training in the treatment of older adults) have been shown to be more cost effective when dealing with older adults.(37)
healthy aging:	The evidence to support the use of financial incentives for quality improvement was weak.(38,39)
	 Limited synthesized evidence was found with respect to housing options for older adults. In general, improved housing is associated with improved social outcomes. (40)
	 We identified no reviews to support the benefits of providing affordable transportation service to older adults.

Discussion

Strengths and Limitations

- · Combining high quality research evidence with the views and experiences of those involved or affected by the issue.
- · Unable to reach our target for the number (n=15) and breath of KIs that were interviewed. Seven KIs were interviewed, and we were not able to engage a representative of a citizen group, or a manager in a healthcare institution.

Implications for policy

- · Support older adults and caregivers with tailored and multicomponent interventions.
- · Monitoring and evaluation is warranted for: providing transportation services, housing options, flexible working arrangements for caregivers and funding models that ensure that community resources are used efficiently (e.g., means tested home-care).

· There is a gap in research regarding health and social care service integration, and the benefits, harms, costs, key components, and view/experiences.

· The evidence brief will be used to inform a stakeholder dialogue. The goal of the dialogue will be to elucidate key themes, points of consensus and disagreement, and paths of action.

Further Information/References

Acknowledgments: The authors wish to thank the key informants for their insights and feedback on the evidence brief.

Funding: No funding to declare.

Conflict of interest: No conflicts of interest to declare.

The control of the co

railable from: http://seniorfriendlyhospitals.ca/sites/default/files/ nior%20Friendly%20Hospital%20Care%20in%20the%20HNHB%20LHIN%20(February%202015)_0.pdf

eccontrolation inconfiguration (configuration and configuration). Neighbor 11 (1997) and configuration (configuration) and configuration (conf

tens AP, Richards SH, Greaves CJ, Campbell JL. Interventions targeting social isolation in older

Public Health. 2011;11:647. hoi M, Kong S, Jung D. Computer and internet interventions for loneliness and depression in older adults: the Inform Res. 2012 Sep;18(3):191–8. utkins I, Xie B. eHealth literacy interventions for older adults: a systematic review of the literature. J Med Internet B net]. 2014 Nov 10 [cited 2017 Jan 12];16(11). Available from: https://www.ncbs.nlm.nih.gov/pmc/articles/PMC429 Aulbers T, Baars M a. E, Rikkert MGMO. Characteristics of effective internet-mediated interventions to change lifestyle in people aged 50 and older: a systematic review. Ageing Res Rev. 2011 Sep;10(4):487–97.
Goldzweig CL, Orshansky G, Paige NM, Towligh AA, Haggistrom DA, Miske-Lye I, et al. Electronic patient portule evidence on health outcomes, satisfaction, efficiency, and attitudes: a systematic review. Ann I

-87.

swakes datu alspoor (paut (mirdes/1970/23/19722).

Bandburty A, Roots A, Astranseron S Rapid review of applications of e-breakh and sensore monitoring for renal residents. Asso J Barral Health. 2014 Oct;22(5):211–22.

Pander A, Pachald P, Gamercull T, Bandbald H, Servens JW, Wang, et al. Home relementationing or structured telephone support programmers after recent discharge in patients with heart failure: systematic review and economic barranser failure and the particular services with failure and economic barranser failures and economic failures and ec

AN K. Kammusen P. What is the velocities for the effectiveness of managing the longial community interface for solder people. N. F. Health Technol. Assess [Bestreed, 306] solid 2017 14th 22[17], June Learners and control, June J. P. Health Technol. Assess [Bestreed, 306] solid 2017 14th 22[17], June Learners and the control of the people of the velocities of effective on the control and entire velocities and entire