Is Home Best for All? Assessing intended and unintended consequences of aging in place policies



CAG Webinar Series 2019/2020

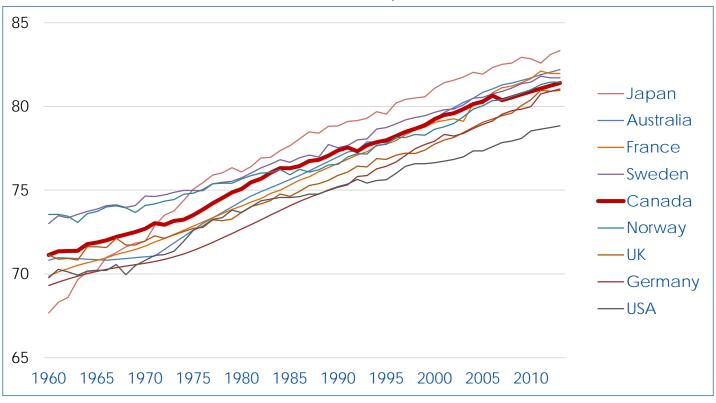
Dec 05, 2019

Matthias Hoben RN, Dr rer medic Heath & Nursing Sciences



POPULATION AGING IN CANADA

Life expectancy in years by year of birth and selected developed countries

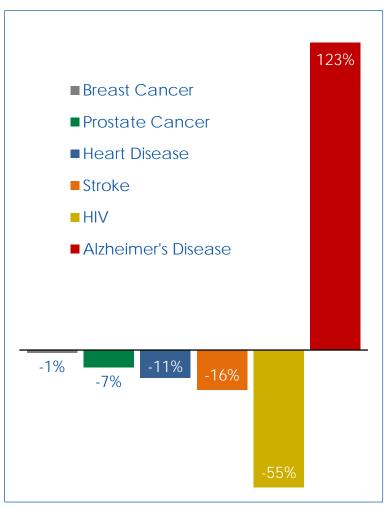


The World Bank (2015)

(http://data.worldbank.org/indicator/SP.DYN.LE00.IN?cid=GPD_10)



DEMENTIA ON THE RISE



2018 Alzheimer's Disease Facts and Figures





Canada is struggling to meet the needs of its aging population

>400,000 Canadians recently report unmet home care needs

>40,000 Canadians are waiting for NH admission, many of them in acute care

13%-22% of Canadians living in NHs have low care needs that could potentially be met in the community

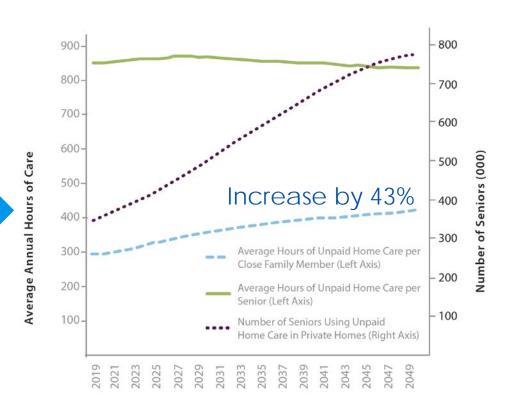
High rates of caregiver burden and unmet caregiver needs

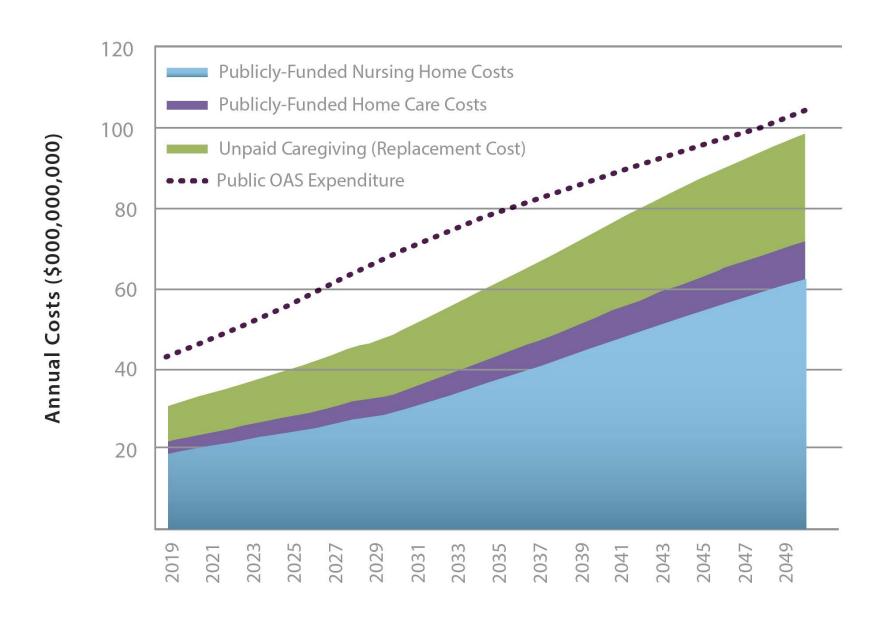


763,735 to 1,256,575 Canadians age 65+ (13%-21%) receive LTC

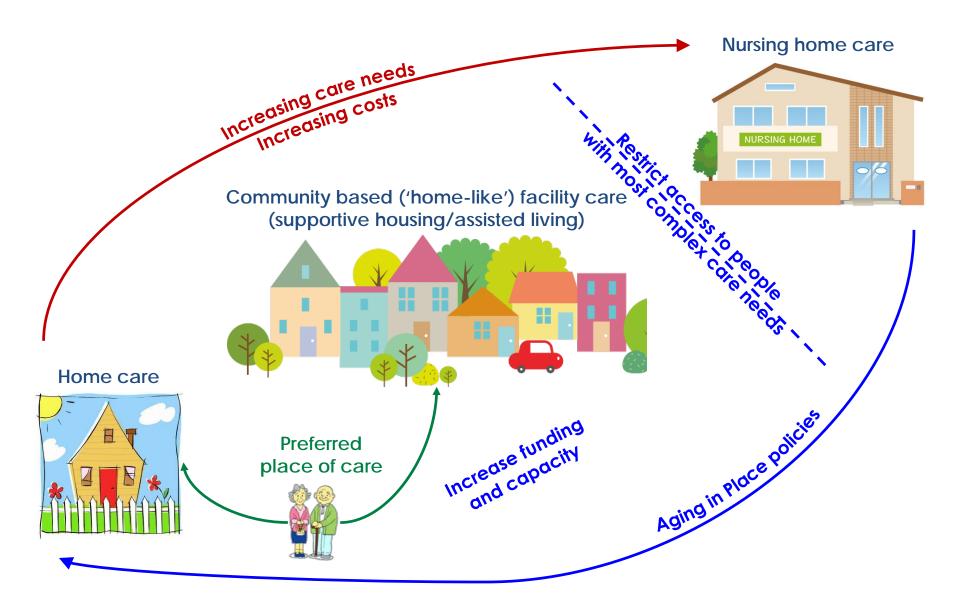
Decrease in potential family/friend caregivers (fewer adult children, higher divorce & separation rates, lower marriage rates)



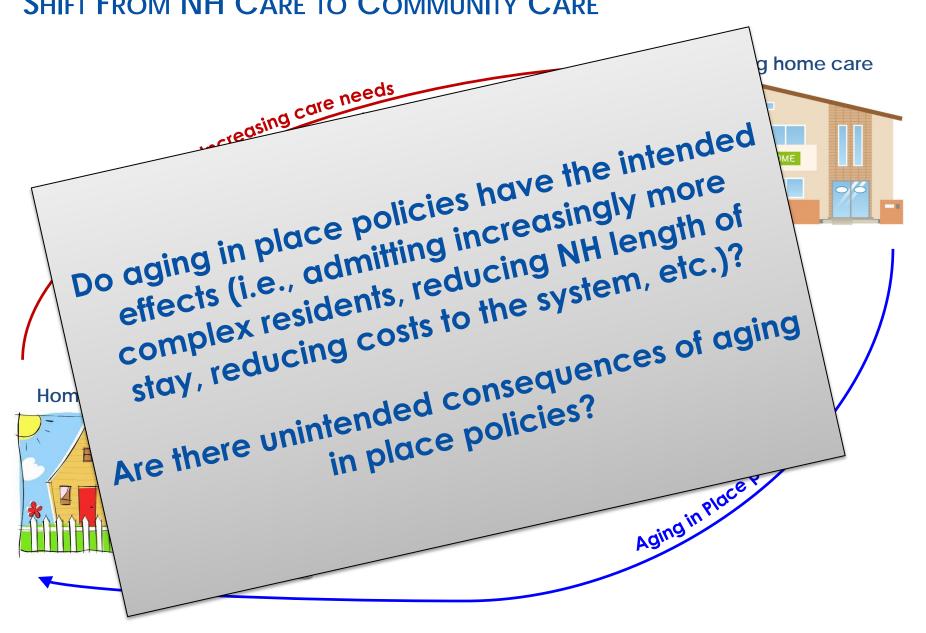




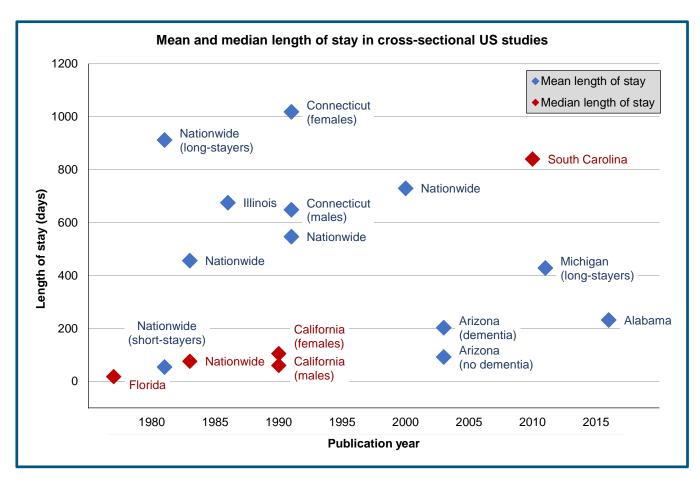
SHIFT FROM NH CARE TO COMMUNITY CARE



SHIFT FROM NH CARE TO COMMUNITY CARE

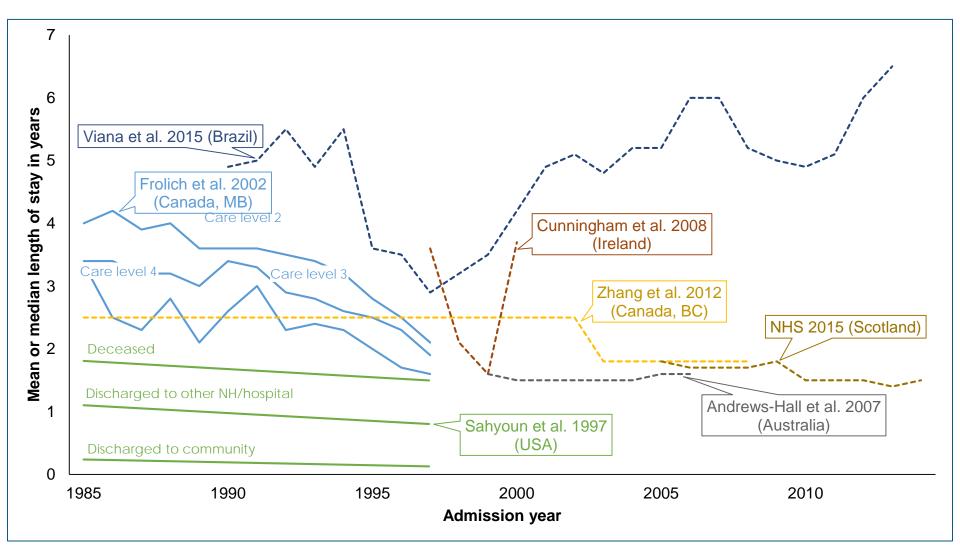


International Literature on Nursing Home Length of Stay (LoS) Limited



- Found 166 international references (61 from the US, 6 from Canada) reporting on either LoS or mortality rates in NHs
- Rates are all over the place
- Mostly cross-sectional studies
- Definitions of LoS and methods used vary widely

LONGITUDINAL STUDIES DON'T ALLOW CLEAR CONCLUSIONS EITHER



Solid lines = Average LoS; dashed lines = median LoS

RESEARCH OBJECTIVES

Assess change in NH LoS over time (i.e., by residents' year of admission) and by health region (Calgary, Edmonton, Winnipeg)

Identify resident admission characteristics that – controlling for facility characteristics – are associated with LoS

Compare resident admission characteristics by health region and year of admission

TRANSLATING RESEARCH IN ELDER CARE

TREC's aims:

To develop practical, evidence informed solutions that contribute to sustainable improvements in quality of care, quality of life, quality of end of life for frail, vulnerable nursing home residents, and quality of work life for the staff who care for them in nursing homes



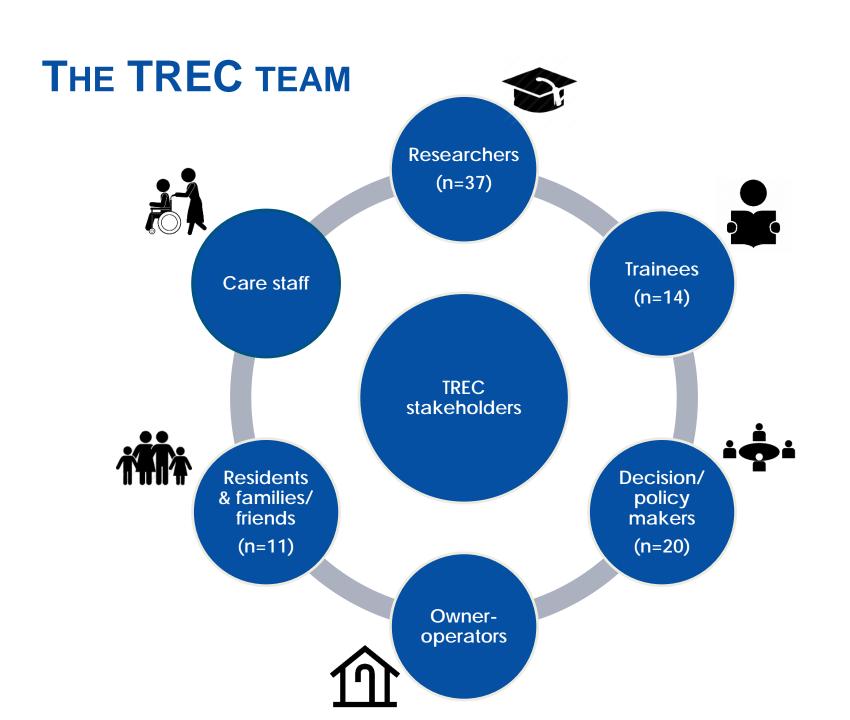
The TREC Scientific Director

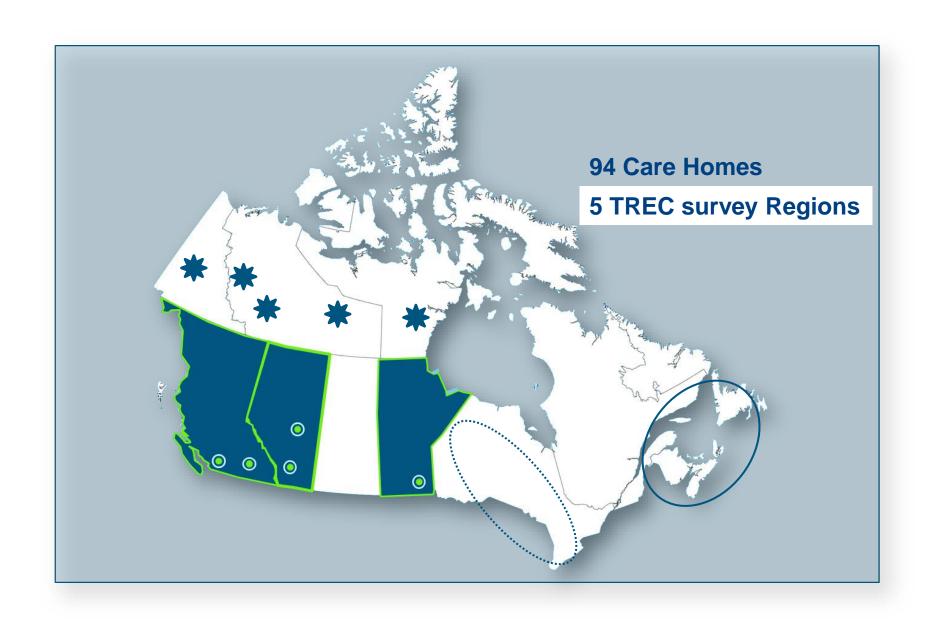




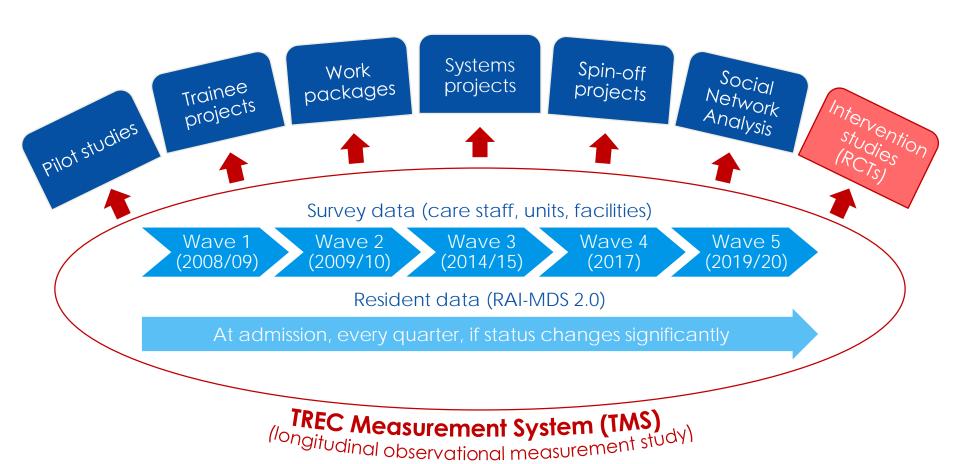
Carole A. Estabrooks, CM, PhD, RN, FCHAS, FAAN is the Scientific Director (SD) of TREC. She is Professor, Faculty of Nursing, at the University of Alberta, Edmonton, Alberta, Canada, and holds a Tier 1 Canada Research Chair in Knowledge Translation.

Dr Estabrooks' program of research focuses on knowledge translation in the health sciences; she studies the influence of organizations on research implementation and quality improvement initiatives and the effect of those on patient/resident, care provider and system outcomes. Her work is situated primarily in residential long term care settings.





THE TREC PROGRAM



TREC 1 (2007-2012) 36 facilities (AB, MB, SK) TREC 2 (2012–2018)
91 facilities (wave 4)

94 facilities (wave 4) (AB, BC, MB) Transition period (2018-2020)

TREC 3 (TBD)

TMS DATA SOURCES



Facility level

Facility Profile Form

(current facilities = 94)



Unit level

- Unit Profile Form
- Unit Reconciliation (microsystem structure)

(Current units = 300+)

Aggregation



Care provider level

TREC Survey (versions for care aides, nurses, allied health providers, clinical specialists, managers)

- Alberta Context Tool
- Best practice use
- Staff health (SF-8)
- Staff wellbeing (e.g., job satisfaction, burnout, engagement, empowerment, etc.)
- Demographics



Resident level

Resident Assessment Instrument – Minimum Data Set 2.0

(Including care unit identifier!)

TREC DATA HOLDINGS TO DATE

	Waves 1 & 2 (2008-2010)	Wave 3 (2014/15)	Wave 4 (2017)
Facility/Care Unit Surveys			
Facility	36	91	94
Care unit	103	336	339
Care Staff Surveys			
Care aide	2,995	4,065	4,158
Nurse	585	767	948
Allied health provider	264	338	569
Clinical specialist	45	57	80
Manager	124	168	193
Physician	25	_	_
Resident Data (RAI-MDS 2.0)			
Records (with unit identifier)	> 500,000 across all waves		
Residents	> 55,000 across all waves		



RESEARCH METHODS



JAMDA

JAMDA

journal homepage: www.jamda.com

Stable cohort of 18 NHs that participated in TREC since 2007

Residents admitted between 01/2008 and 12/2015

Admission assessment available within 28 days of admission

Date of first admission to NH sector known

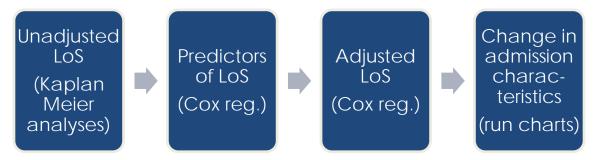
Long stay admissions (i.e. not respite care)

Original Study

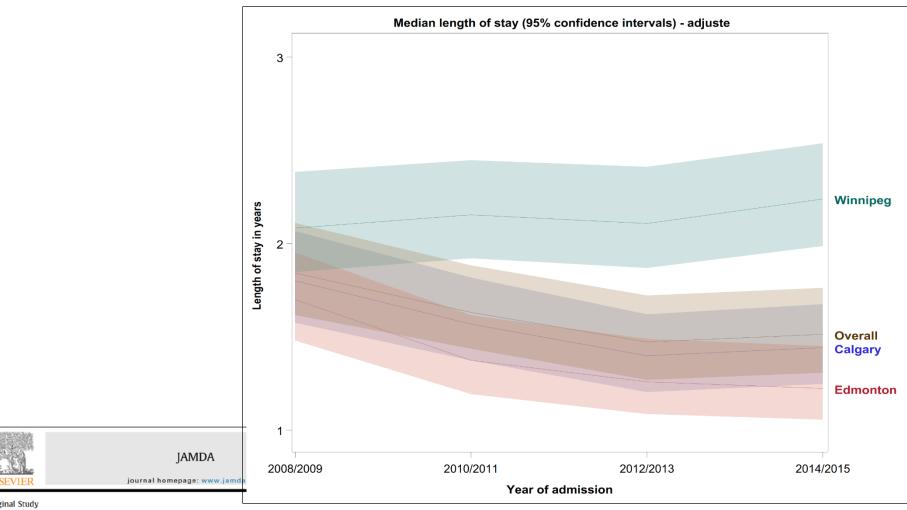
Nursing Home Length of Stay in 3 Canadian Health Regions: Temporal Trends, Jurisdictional Differences, and Associated Factors

Matthias Hoben Dr rer medic ^{a,*}, Stephanie A. Chamberlain MSc ^a, Andrea Gruneir PhD ^b, Jennifer A. Knopp-Sihota PhD ^{a,c}, Jason M. Sutherland PhD ^d, Jeffrey W. Poss PhD ^e, Malcolm B. Doupe PhD ^f, Veronica Bergstrom MA ^g, Peter G. Norton MD ^h, Corinne Schalm MSc ⁱ, Kimberley McCarthy MPH ⁱ, Kierstin Kashuba Ba ⁱ. Fred Ackah MSc ⁱ, Carole A. Estabrooks PhD ^a

7,817 residents from the Edmonton and Calgary Health Zones and from the Winnipeg Regional Health Authority



DECREASING LENGTH OF STAY IN HEALTH AUTHORITIES WITH RIGOROUS AGING IN PLACE INITIATIVES



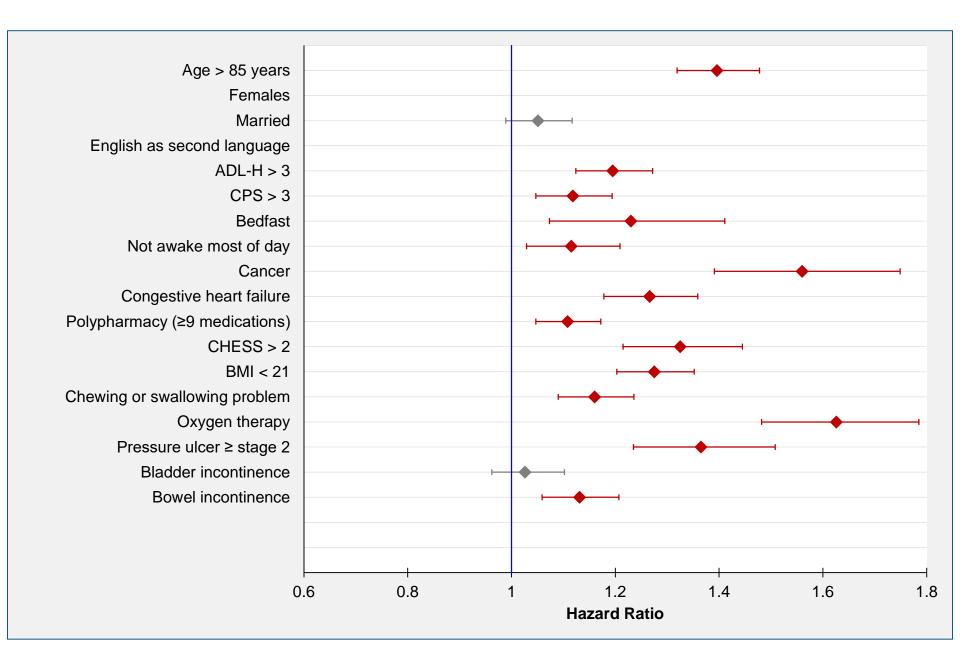
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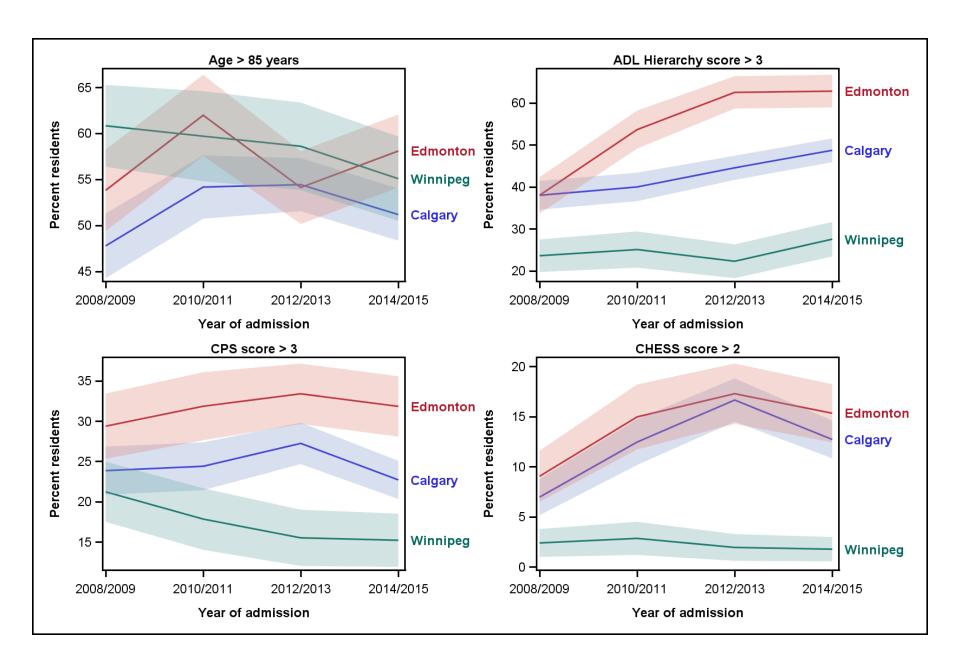
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RESULTS: FACTORS ASSOCIATED WITH LOS



CHANGING RESIDENT CHARACTERISTICS AT ADMISSION



IMPACT ON LONG TERM CARE?

About a Nurse



"Yesterday you said your shift was boring. Well, today will be a little different."

VERY LIMITED EVIDENCE ON EFFECTS OF AGING IN PLACE POLICIES

Evidence of what works to support and sustain care at home for people with dementia: a literature review with a systematic approach

Alison Dawson, Alison Bowes ™, Fiona Kelly, Kari Velzke & Richard Ward

BMC Geriatrics 15, Article number: 59 (2015) Cite this article

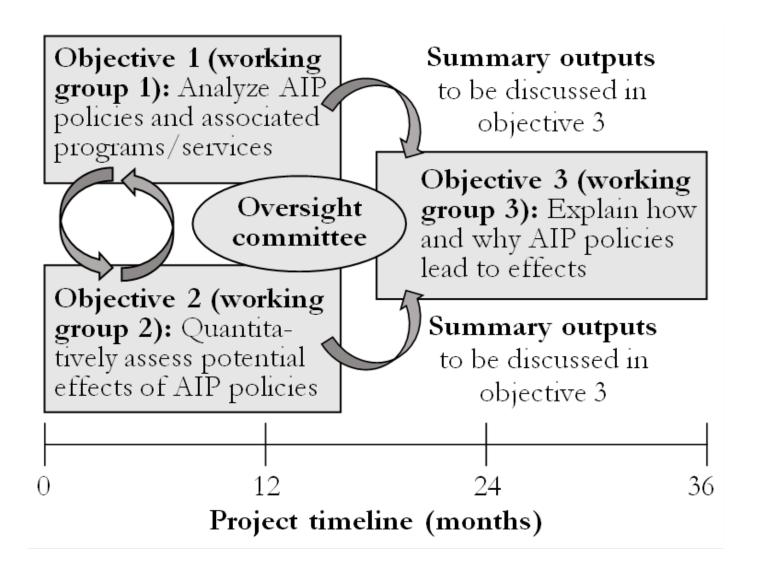
- Poorly designed and overly narrowly focused studies
- Variability and uncertainty in outcome measurement
- Lack of focus on the perspectives of people with dementia and supporters
- Failure to understanding the complexities of living with dementia, and of the kinds of multifactorial interventions needed to provide holistic and effective support
- Limited evidence policy and practice can use to make decisions

- No effect of single focused interventions
- Complex interventions reduced the risk for NH admission in people with dementia
- Only included RCTs
- No linkage to policies

The evidence for services to avoid or delay residential aged care admission: a systematic review

Julie A. Luker ☑, Anthea Worley, Mandy Stanley, Jeric Uy, Amber M. Watt & Susan L. Hillier

PROPOSED FUTURE RESEARCH



PRIORITY AREAS TO FOCUS ON





THANK YOU



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