



# **COVID-19 Living Evidence Profile #2**

(Version 3: 26 April 2021)

#### Question

What is known about preventing and managing COVID-19, outbreaks of COVID-19 and about supporting renewal in long-term care homes?

### Background to the question

The long-term care sector has been hard hit by the COVID-19 pandemic in Canada and in many other high-income countries. This has led to many questions about how long-term care homes can improve the prevention and management of COVID-19 outbreaks, as well as how to support the renewal in long-term care homes as a whole based on lessons learned from the pandemic and about challenges that preceded it. As such, there are many activities that crisis management and renewal plans will need to consider, which we summarize in the framework below. We use this framework to organize key findings from evidence documents and experiences from other countries and from Canadian provinces and territories. We have not made any changes to the framework since the first version of our LEP.

#### Organizing framework

#### • Preventing infections

- Vaccinating staff and residents (e.g., allocation rules, communications, administration, and monitoring)
- Adhering to infection-prevention measures (e.g., washing hands, wearing masks, physical distancing, temporal distancing, and disinfecting surfaces)
- Adjusting resident accommodations, shared spaces

#### Box 1: Our approach

We identified research evidence addressing the question by searching the COVID-END inventory of best evidence syntheses and the COVID-END guide to key COVID-19 evidence sources in the 19-23 April 2021 period. We also searched: 1) HealthEvidence; and 2) Health Systems Evidence (see Appendix 1 for the search terms used). We identified jurisdictional experiences by searching jurisdiction-specific sources of evidence listed in the same COVID-END guide to key COVID-19 evidence sources, and by hand searching government and stakeholder websites. We selected eight countries (Australia, France, Finland, The Netherlands, New Zealand, United Kingdom, United States) that are advanced in their thinking or are good comparators to the Canadian provincial and territorial approaches to long-term care.

We searched for guidelines, full systematic reviews (or reviewderived products such as overviews of systematic reviews), rapid reviews, protocols for systematic reviews, and titles/questions for systematic reviews or rapid reviews that have been identified as either being conducted or prioritized to be conducted. Single studies were only included if no relevant systematic reviews were identified.

We appraised the methodological quality of full systematic reviews and rapid reviews that were deemed to be highly relevant using AMSTAR. Note that quality appraisal scores for rapid reviews are often lower because of the methodological shortcuts that need to be taken to accommodate compressed timeframes. AMSTAR rates overall quality on a scale of 0 to 11, where 11/11 represents a review of the highest quality. It is important to note that the AMSTAR tool was developed to assess reviews focused on clinical interventions, so not all criteria apply to systematic reviews pertaining to delivery, financial or governance arrangements within health systems or to broader social systems. We appraised the quality of the highly relevant guidelines using three domains in AGREE II (stakeholder involvement, rigour of development, and editorial independence) and classified guidelines as high quality if they were scored as 60% or higher on each domain.

This update of the living evidence profile was prepared in the equivalent of two days of a 'full-court press' by all involved staff, and will continue to be updated once per month to provide evidence updates that can support preventing and managing COVID-19, outbreaks of COVID-19 and about supporting renewal in long-term care homes.

- and common spaces (e.g., single-occupancy rooms, no or minimally shared bathrooms, meals taken in rooms not dining hall, and improvement to HVAC systems)
- o Adjusting service provision (e.g., cohorting residents and staff and providing PT/OT services in resident rooms rather than clinics)
- Restricting and screening staff and visitors (e.g., visitor policy changes, approach to and frequency of screening)
- o Testing of residents and staff (e.g., approach to and frequency of testing)
- o Isolating suspected or confirmed cases among residents (within same or different facility) and staff (at home or in alternative settings like hotels)
- o Contact tracing among staff and visitors
- Supporting staff and residents (e.g., phones/tablets and internet connections for online interactions between residents and their families and caregivers, financial support to staff who must quarantine or isolate)

# • Managing outbreaks

- o Adding or replacing administrators and staff (e.g., secondment of hospital administrators and medical or IPAC 'swat' teams, rotating in staff to avoid burn-outs)
- o Adhering to infection-control measures (e.g., donning and doffing personal protective equipment)
- o Making additional spatial, service, screening, testing, isolation and support changes
- o Transferring residents when their care needs exceed capacity in the home

# • Renewing delivery, financial and governance arrangements

- o Improving access to care (e.g., number of homes and beds, waitlist management)
- o Improving safety and quality of care, and more generally improving quadruple-aim metrics (e.g., quality standards, regular resident/family and staff surveys)
- Changing service-delivery models (e.g., case management and care coordination;, regular primary-care services, referral services)
- o Improving physical infrastructure (e.g., private rooms only, rooms grouped into 'pods' with dedicated staff, improving common areas and greenspace access, modern HVAC systems, and internet access for residents and staff)
- o Altering funding arrangements (e.g., overall funding model, targeted payments and penalties based on performance, and changes to covered providers, services and products)
- o Adjusting governance arrangements (e.g., licensure provisions, including whether for-profit entities can be licensed, accreditation standards, and reporting and auditing requirements)
- O Supporting greater integration of long-term care with other sectors (e.g., collaborative leadership and pooled funding for an attributed population)

# • Supporting residents (and their families and caregivers) and staff (and volunteers)

- Engaging residents, families and caregivers in self-management, care choices, care delivery, and organizational and policy decision-making (e.g., shared decision-making about care, patient, family and caregiver advisory councils, complaints-management processes)
- o Ensuring culturally appropriate living among residents (e.g., for Black, Indigenous and other people of colour)
- O Supporting technology-enabled living among residents (e.g., communication with family and caregivers, with staff, and with outside providers)
- o Ensuring an adequate supply of staff (e.g., staffing ratios, recruitment and retention initiatives, contracts with external agencies)
- Optimizing skill mix among staff (e.g., training;, task shifting or substitution, role expansion or extension, multi-disciplinary teams)
- o Ensuring the safety and satisfaction of staff and volunteers (e.g., workplace safety assessments, workplace violence-prevention initiatives, interventions to reduce burn-out)

- O Supporting technology-enabled care by staff (e.g., interoperable electronic health records, telehealth services, eConsultations and eReferrals)
- o Remunerating staff (e.g., remuneration models for different types of staff, including full-time employment offers, reasonable wages, and paid sick leave, wage parity or other approaches to avoid unnecessary staff movements between sectors)

# • Promoting alternatives to long-term care

- o Engaging residents, families and caregivers in shared decision-making about whether to enter long-term care
- o Enhancing the breadth and intensity of home- and community-care services to delay or avoid entry to long-term care
- O Supporting technology-enabled care at home (e.g., telehealth, remote monitoring systems, patient reminders)
- o Providing financial supports to avoid or delay entry into long-term care (e.g., retrofitting homes, expanding family and caregiver benefits)

We do not include in our findings topics that are well covered by other COVID-END-supported living evidence products, such as the living behavioural-science syntheses to support vaccine confidence and uptake (among healthcare workers as well as citizens), the living evidence synthesis about vaccine effectiveness in general and against variants of concern, and the living evidence profile about vaccine roll-out. The most recently updated versions of each of these documents can be found here.

#### What we found

We identified 28 new evidence documents since the last update of this LEP, of which we deemed 19 to be highly relevant. Of these, eight documents were published during or prior to the last version of the LEP, but were not captured in it. As a result we have included these newly identified documents in this version. Findings from older documents have been explicitly noted. The newly added highly relevant evidence documents are:

- one guideline that met our minimum requirements for a guideline (i.e., includes explicit recommendations and an explicit process for developing them)
- three full systematic reviews;
- one rapid review; and
- 14 new single studies that provide additional insights.

This LEP also includes evidence documents from the previous version that we deemed to still be highly relevant, for a total of 147 highly relevant documents.

We outline insights from the most salient newly identified highly relevant evidence documents and from the jurisdictional scans in narrative form below. This is accompanied by Table 1, which provides more details about key findings from each of the newly identified evidence documents and new insights from the jurisdictional scans. In Table 2, we provide findings from still-relevant evidence documents and jurisdictional scans from the previous version of our LEP. We also outline the type and number of all documents that were identified in Table 3.

For those who want to know more about our approach, we provide a detailed summary of our methods in Appendix 1. In addition, we provide highly relevant evidence documents identified from the updated searches in this LEP version in Appendix 2a, and all highly relevant documents that were identified in previous versions in Appendix 2b (including their relevance to the categories in the organizing framework, key findings, and when they were conducted or published). We also

provide detailed summaries of preventing and managing COVID-19, outbreaks of COVID-19, and about supporting renewal in long-term care homes from other countries in Appendix 3, and from Canadian provinces and territories in Appendix 4. Documents excluded at the final stages of reviewing are provided in Appendix 5.

#### Key findings from highly relevant evidence documents

#### Cross-cutting insights

One primary study examined policies implemented in long-term care homes in five provinces during the pandemic. These policies included <u>declaring a state of emergency, restricting non-essential visitors, restricting staff from working across long-term care homes, and deploying the Canadian Armed Forces to support long-term care facilities.</u> The study found provinces that were slow to respond with some of these policies were hardest hit by COVID-19.

## Preventing infection

One low-quality guideline and nine primary studies were found that focused on preventing infections. Three of the studies reported reductions in COVID-19 incidence and mortality following vaccination in long-term care homes. The studies reported an 89% reduction in infections eight weeks following vaccination in Ontario, 90% reduction in transmission in Catalonia, and 2.5 fewer COVID-19 infections per-100 at-risk residents a week following vaccination than what was modelled to have otherwise happened in the U.S., respectively. Two additional studies focused on vaccine hesitancy among long-term care staff, with one study finding that concerns largely stemmed from the timeline for vaccine development and a second study adding concerns related to the interaction with pre-existing medical conditions and a lack of trust in government.

The low-quality guideline from the Public Health Agency of Canada recommended that long-term care homes invest in the highest-efficiency particulate filter their HVAC systems are capable of handling, as well as ensuring that residents' rooms and common areas have adequate air exchanges and are taking advantage of natural ventilation to reduce aerosol transmission of COVID-19.

Two studies focused on supporting staff and residents, with one finding <u>a loss of social time</u>, <u>freedom and stimulation amongst residents during the pandemic</u>, while the other found that <u>delivering additional services during the pandemic was necessary to support the mental wellbeing of residents</u>, such as providing art supplies for residents to use in their own rooms.

# Managing outbreaks

One low-quality rapid review and three primary studies published in March focused on lessons learned from managing outbreaks in long-term care homes. The rapid review found that daily cleaning, allocating staff to a single facility and restricting visitation to emergency and critical cases only helped to control outbreaks, while the three primary studies focused on mass testing of asymptomatic residents and staff during an outbreak, ensuring sufficient supplies and staff are available, and providing additional help such as relief staffing, public health expertise and logistic planning supports.

Renewing delivery, financial and governance arrangements

One medium-quality systematic review that included searches from September 2020 found that providing public long-term care insurance improved the physical health of beneficiaries, reduced economic welfare losses, and reduced length of stay in hospitals when compared to private funding models.

Supporting residents and staff

Two primary studies focused on staff during the COVID-19 pandemic, with one finding that a long-term care home had a 189% increase in physician interventions during the pandemic, while the other study found that staff reported feeling unprepared to care for residents due to a lack of information, limited personal protective equipment, and re-organization of staffing.

Another primary study found that the use of telehealth in long-term care homes reduced hospital admissions and exposure to COVID-19 as well as improved access to specialist care.

Promoting alternatives to long-term care

One medium-quality systematic review conducted earlier this year found that <u>community-based</u> <u>housing models can support individuals to maintain their send of self and autonomy</u>.

# Key findings from the jurisdictional scan

We identified several new insights based on the experiences with crisis management and renewal in eight countries (Australia, France, Finland, The Netherlands, New Zealand, the United Kingdom, and the United States), as well as all provinces and territories in Canada.

Key insights from preventing and managing COVID-19, and renewing long-term care in other countries

In terms of preventing infections, we found that:

- some countries have lifted or adjusted visiting restrictions as vaccine roll-out has progressed (The Netherlands and the U.K.);
- in Finland, the government published a plan on 9 April 2021 to lift societal restrictions in June and July following a reassessment of the epidemiological situation in the country; and
- in France, although lockdown measures have been extended until 11 May 2021, visits in long-term care homes have continued.

Turning to managing outbreaks, we found that:

• government-funded Australian long-term care homes require a position to lead infection prevention and control and the Department of Health will dispatch a case manager when an outbreak is declared.

For renewing delivery, financial and governance arrangements, we found that:

• the <u>Australian National Aged Care Classification</u> (AN-ACC) funding model was approved by the Government of Australia as a means of potentially replacing the existing Aged Care Funding Instrument; and

• in Finland, healthcare and social services (including long-term care homes) are included in the draft of the Sustainable Growth Program for the country, which related to the national recovery and rehabilitation plan financed through the EU recovery instrument.

For supporting residents and staff, we found that:

- the Government of Australia invested a total of \$12.4 million in their grief and trauma response to support the aged care sector; and
- in Finland, new agreements concerning work arrangements for long-term care home staff now allow for greater flexibility for breaks and working times.

In terms of promoting alternatives to long-term care, we found that:

• the Government of Australia aims to develop a <u>Single In-Home Care Program</u> to replace the preexisting CHSP and Home Care Packages Program.

Key insights from preventing and managing COVID-19, and renewing long-term care in other Canadian provinces and territories

In terms of preventing infections, we found that:

- the federal government has released updated guidance on ventilation and filtration in long-term care homes as well as an updated response plan for the ongoing management of COVID-19;
- several provinces have developed tiered protocols for the operation, patient trajectory and/or visitation policies of long-term care homes based on regional COVID-19 alert levels (Quebec and New Brunswick) or vaccination rates (Prince Edward Island);
- in Saskatchewan, <u>visitor restrictions will begin to ease</u> if 90% or more of the residents in a long-term care home have been fully vaccinated, while Ontario and Nunavut on the other hand have recently discontinued visitors in long-term care homes; and
- the Saskatchewan Health Authority has updated COVID-19 testing policies as part of its <u>move-in</u> policy for new residents entering long-term care or personal care homes.

Turning to managing outbreaks, we found that:

- the <u>Saskatchewan government recommends</u> that operators of long-term and personal-care homes have conversations to prepare for scenarios in which following the protocols for managing outbreaks may be challenging;
- in Manitoba, <u>all residents with suspected or confirmed COVID-19 infection</u>, or high-risk contacts of an infected person, are cared for in a single room with a dedicated toilet and sink or in a bed space that is at least two meters apart and separated by a curtain if a single room is not available and
- New Brunswick will deploy a Provincial Rapid Outbreak Management Team if an outbreak occurs in a long-term care home.

For renewing delivery, financial and governance arrangements, we found that:

- new funding has been allocated to long-term care homes federally and in Saskatchewan, Manitoba, Ontario, and British Columbia;
- in Quebec, the <u>provincial policy on long-term living and care services</u>, which sets guidelines for all long-term accommodation facilities (including long-term care homes), established a new approach for long-term care settings;

- Nova Scotia commissioned a report with recommendations to improve the quality of care during COVID-19 and more generally for the short- and long-term in response to a <u>request to review</u> the large COVID-19 outbreak at the Northwood Long-Term Care Facility in Halifax; and
- Nova Scotia is also looking to improve workforce planning in long-term care and home care sectors through its <u>Continuing Care Assistants Registry Act</u> introduced on 7 April 2021.

For supporting residents and staff, we found that:

- the federal government extended support from the Canadian Red Cross to long-term care homes in Ontario until 30 September 2021;
- Quebec has released a guide about the <u>use of telehealth under the health emergency act</u>, which emphasizes that telehealth must be complementary to in-person care for patients in long-term care; and
- the Yukon announced on 21 April 2021 that it is engaging residents and their families to develop a strategy to enable community outings and increase the limit on visitors in long-term care homes.

In terms of promoting alternatives to long-term care, we found that:

- several provinces have developed policies to better support care in the community and at home (Quebec, New Brunswick, Nova Scotia and the Yukon) ranging from age-friendly city initiatives, financial support to community organizations that support the needs of older adults in the community, better responding to the needs of informal caregivers and improving housing quality and availability for older adults in the community; and
- Nova Scotia and the Public Health Agency of Canada have invested \$75 million towards the <u>Health Seniors Pilot Project</u> to support applied research projects addressing: 1) challenges related to COVID-19 and older adults; 2) social isolation and loneliness; 3) the needs of informal caregivers; 4) enablers for aging in place; and 5) how to make better use of supportive technologies.

Table 1: Highlights from new highly relevant evidence documents and experiences

Preventing and	New evidence	New experiences
managing		
COVID-19,		
outbreaks of		
COVID-19, and		
supporting the		
renewal in long- term care homes		
General/cross-		No cross-cutting experiences were identified
cutting insights	• One primary study examined policies implemented in long- term care homes in five provinces, these included <u>declaring a</u>	No cross-cutting experiences were identified
cutting margines	state of emergency, restricting non-essential visitors,	
	restricting staff to working in one location, and deploying the	
	Canadian Armed Forces to long-term care facilities (last	
	updated April 2021)	
	o The same study found provinces that were slow to	
	respond with some of these policy mandates were hardest	
	hit by COVID-19 (last updated April 2021)	
Preventing	Vaccinating staff and residents	Key insights from preventing and managing COVID-19, and
infections	One primary study conducted earlier this year found that	renewing long-term care in other countries
	after eight weeks of the vaccination program in long-term	
	care homes in Ontario there was an 89% reduction in	Adhering to infection-prevention measures
	COVID-19 incidence and 96% reduction in mortality from	• In Finland, the government published a plan on 9 April 2021 to
	COVID-19 (published March 2021)	lift societal restrictions, including those affecting visitor policies
	One primary study examined the short-term impact of	in long-term care homes, in June and July following a
	vaccinations in 280 long-term care homes and found that	reassessment of the epidemiological situation in the country
	early vaccinated facilities that 2.5 fewer COVID-19	
	infections per 100 at-risk residents in the first week than	Restricting and screening staff and visitors
	what was predicted in modelling data with rates declining	In France, although lockdown measures have been extended
	there after (published 16 April 2021)	until 11 May 2021, visits in long-term care homes have
	One primary study found that <u>once 70% of residents in</u> nursing homes in Catalonia were vaccinated, detectable	continued
	transmission reduced up to 90% (published 12 April 2021)	• In The Netherlands, fully vaccinated residents can receive two
	One primary study of townhalls with staff from long-term	visitors instead of one at the same time (while still adhering to
	care homes reported that <u>hesitancy about the vaccine</u>	physical distancing and universal masking)
	stemmed from concerns about the timeline for its	The UK has continued to update its visiting guidelines for long-
	sternined from concerns about the unfemic for its	term care homes

- development and reported side-effects related to pregnancy (published March 2021)
- Another primary study of vaccine hesitancy among staff at long-term care homes found that staff reported feelings of hesitancy due to concerns about safety and effectiveness related to the speed of vaccine development as well as personal concerns about pre-existing medical conditions, and lack of trust in government (last updated March 2021)

  Adjusting resident accommodations, shared spaces and common spaces
- A low-quality guideline produced by the Public Health
  Agency of Canada recommends putting in place the highest
  efficiency particular filter that the HVAC system is capable
  of handling, ensuring that the room has adequate air
  exchanges and whenever possible taking advantage of natural
  ventilation by opening windows to reduce aerosol
  transmission of COVID-19 (Public Health Agency of
  Canada, last updated 2021)
  - The same guideline notes that where HVAC systems cannot be upgraded long-term care home should invest in fans and single unit air conditioners to help with circulation (Public Health Agency of Canada, last updated April 2021)

Restricting and screening staff and visitors

 One primary study of long-term care facilities in Denmark found that while re-opening the homes to visitors would increase the well-being of residents and their family members, there were concerns around potential risk of infection resulting in an increased workload for staff and further emotional exhaustion (last updated April 2021)

Supporting staff and residents

 One primary study from China found providing additional supports to residents and staff were necessary including ensuring targeted training for all staff on future pandemics and emergencies and delivering additional services to support mental wellbeing in their own rooms (published April 2021) Key insights from preventing and managing COVID-19, and renewing long-term care in Canadian provinces and territories

Adhering to infection-prevention measures

- In April 2021, additional guidance was released on ventilation and filtration to reduce aerosol transmission of COVID-19 in long-term care homes, which includes information on how to enhance and improve ventilation and use of fans and single unit air conditions in facilities where this is not possible
- In April 2021, the <u>Public Health Agency of Canada released a</u> second edition of the federal/provincial/territorial public health response plan for the ongoing management of COVID-19 which includes considerations for long-term care homes, such as:
  - updating the guidance for the clinical management of patients with moderate to severe COVID-19 and care of residents in long-term care;
  - o optimizing testing platforms for healthcare and staff in longterm care facilities; and
  - o providing federal Safe Long-Term Care Fund, including carrying out infection prevention and control readiness assessments, making improvements to ventilation and hiring and training additional staff
- Several provinces have developed tiered protocols for the operation, patient trajectory and/or visitation policies of longterm care homes based on regional COVID-19 alert levels (Quebec and New Brunswick) or vaccination rates (Prince Edward Island)
- Nova Scotia published a <u>resource index regarding infection</u> <u>prevention and control for the long-term care sector and</u> conducted a <u>review of infection prevention and control</u> <u>measures during the first wave of the pandemic</u> (from March to September 2020) across six domains:
  - access to infection prevention and control expertise in longterm care

One primary study reported a loss of social life, freedom, stimulation, and autonomy among residents during the COVID-19 pandemic as well as cognitive and physical decline (last updated March 2021)	o access to infection tools o on-site systems, equipment and o monitoring and infrastructure ar In Manitoba, long-thave received at lear request an exemption
	<ul> <li>Restricting and screening</li> <li>On 8 April 2021, One home order and vision homes</li> <li>In Nunavut, as of 1 in Iqaluit is restricted individual basis</li> <li>In Saskatchewan, vision more of the resident vaccinated (3 weeks)</li> </ul>
	Testing of residents and  Saskatchewan's Hearesidents entering learequires a COVID-date, and if a potent symptoms, move-in symptoms significant of All residents who droplet/contact points a potential resident can be not

- tion control and prevention education and
- s, standards, and processes
- material resources
- d reporting mechanisms
- and space design
- -term care home employees and staff who east one dose of the COVID-19 vaccine can tion to the Single Site Staffing Order

# ing staff and visitors

- Ontario entered into a province-wide stay-atrisitors are no longer allowed in long-term care
- 15 April 2021, visiting long term care homes ted, with any exemptions assessed on an
- visitor restrictions will begin to ease if 90% or ents in a long-term care home have been fully ks past the second dose)

# id staff

- ealth Authority's move-in policy for new long-term care or personal care homes 0-19 test at least 48 hours before the move-in ntial resident tests negative but displays in must be delayed for at least 48 hours after antly resolve
  - no test negative must placed under precautions for 14 days
  - sident tests positive and is hospitalized, the moved in 14 days following symptoms onset
- If the resident is not hospitalized, they can be moved in 10 days following symptoms onset, and if they are asymptomatic and/or immunocompromised, the resident can be moved in 10 days after the positive test date

# Managing outbreaks

Making additional spatial, service, screening, testing, isolation and support changes

- One rapid review found key infection control measures in long-term care homes included daily cleaning of most touched surfaces, allocating staff to one facility, and restricting visitation to only emergency and critical cases (AMSTAR 2/9; last updated 14 April 2021)
  - The same review found that <u>implementation challenges to</u> <u>effectively putting these in place included maintaining</u> <u>adequate staffing, supplies, and difficulty controlling</u> <u>movement for certain residents</u> (AMSTAR 2/9; last updated 14 April 2021)
- One primary study of outbreak management in a long-term care home in Sao Paulo found that mass testing for all asymptomatic residents and staff in long-term care once a case was detected was critical to preventing outbreaks (last updated March 2021)
  - O The same study highlighted that long-term care homes should engage in active surveillance by conducting surveys assessing symptoms of COVID-19 among residents (last updated March 2021)
- One primary study of 139 long-term care homes in Michigan found that 65.5% of respondents experienced a shortage of supplies during the pandemic and 63% reported experiencing staff resignations and a resulting shortage in available staff (last updated March 2021)
  - The same study also found that <u>many respondents</u> expressed that they relied heavily on rapidly changing guidance from multiple sources which occasionally conflicted (last updated March 2021)
- One primary study conducted earlier this year found that the relationship between frontline staff and managers or senior administrators was critical to setting a positive workplace culture and staff morale
  - The same study found that <u>additional supports and</u> external assistance was needed during outbreaks including training in infection, prevention and control procedures,

# Key insights from preventing and managing COVID-19, and renewing long-term care in other countries

Adding or replacing administrators or staff

 All Australian long-term care homes that are governmentfunded require an infection prevention and control lead and the Department of Health will dispatch a case manager when an outbreak is declared

# Key insights from preventing and managing COVID-19, and renewing long-term care in Canadian provinces and territories

Adding or replacing administrators or staff

- If an outbreak occurs in New Brunswick, a Provincial Rapid Outbreak Management Team will be deployed to work with facilities to implement outbreak response plans and ensure continuing care for residents
- An inspection report from a British Columbian long-term care home which was hard hit by COVID-19 found staffing shortages throughout the pandemic and inadequate cleaning led to the outbreaks experienced

# Adhering to infection-control measures

- The <u>Saskatchewan government recommends</u> that operators of long-term and personal care homes have conversations to prepare for scenarios in which following the protocols for managing outbreaks may be challenging
- In Manitoba, <u>All residents with suspected or confirmed COVID-19 infection</u>, or high-risk contacts of an infected person are cared for in a single room with a dedicated toilet and sink or in a bed space that is at least 2 meters apart and separated by a curtain if a single room is not available

	relief staffing and public health and logistical support (last updated March 2021)	
Renewing delivery, financial and governance	Altering funding arrangements  • One systematic review found published earlier this year that	Key insights from preventing and managing COVID-19 and renewing long-term care in other countries
arrangements	providing public long-term care insurance improved the physical health of beneficiaries, reduced economic welfare losses, and reduced length of stay in hospitals among residents compared to private funding models (AMSTAR 5/9; last updated April 2020)	<ul> <li>Altering funding arrangements</li> <li>The Australian National Aged Care Classification (AN-ACC) funding model was approved by the Government of Australia as a means of potentially replacing the existing Aged Care Funding Instrument</li> <li>The new AN-ACC model will bring about changes to funding, and introduce a case-mix classification and an AN-ACC assessment</li> <li>In Finland, healthcare and social services are included in the draft of the Sustainable Growth Program for Finland which related to the national recovery and rehabilitation plan financed through the EU recovery instrument</li> <li>The investment plan is currently under preparation and will be submitted to the European Commission in the Summer, however long-term care homes are expected to be a source for investment</li> </ul>
		Key insights from preventing and managing COVID-19, and renewing long-term care in Canadian provinces and territories
		<ul> <li>Improving safety and quality of care</li> <li>In Quebec, the provincial policy on long-term living and care services, which sets guidelines for all long-term accommodation facilities (including long-term care homes), established a new a approach for long-term care settings in Quebec with five pillars:         <ul> <li>developing a patient-centred focus that responds to their unique needs and life history</li> <li>engaging and supporting the close friends and family of patients</li> <li>offering multidisciplinary and high-quality care, and supporting health and social care providers</li> </ul> </li> </ul>

- o developing healthy, inclusive, and evolving living environments
- o strengthening community ties and building citizen awareness of long-term care settings
- Nova Scotia commissioned a report on the large COVID-19 outbreak at the Northwood Long-Term Care Facility in Halifax and make recommendations to improve the quality of care during COVID-19 and more generally for the short- and longterm
  - The Quality-Improvement Committee made 17 recommendations for the facility, the Department of Health and Wellness, and the Government of Nova Scotia
  - Four driving forces of the outbreak were identified: staffing challenges, community transmission, structural/infrastructural constraints, barriers to and inconsistent cleaning
- The province introduced the 'Continuing Care Assistants
  Registry Act' on 7 April 2021 to improve workforce planning,
  particularly in the long-term care and home care sectors
  - o The legislation defines and protects the title of continuing care assistants and requires workers to register annually
  - The legislation also enables greater data collection and use, for example to verify that continuing care assistants have completed required trainings
  - o The act sets out provisions related to compliance

### Altering funding arrangements

- The federal budget allocated \$3-billion over the next five years to help provinces implement new standards for long-term care
- On 12 April 2021, the <u>Government of British Columbia tabled</u> their <u>Throne Speech</u> which included hiring thousands of additional long-term care workers and capital funding for public long-term care homes
- The <u>2021-22 provincial budget</u> proposed by the Saskatchewan government on 6 April 2021 allocates funding for long-term care in the province:

Supporting residents and staff	<ul> <li>Ensuring adequate supply of staff</li> <li>One primary study conducted earlier this year in a long-term care home in Ireland found a 189% increase in physician</li> </ul>	<ul> <li>Approximately \$6 million will be spent to hire 100 continuing care aides to assist long-term care residents</li> <li>A budget allocation of \$7.6 million for the 80-bed La Ronge long-term care facility and \$3.6 million for another future long-term care facility in Grenfell</li> <li>More than \$1 million will also be invested for future planning of long-term care facilities in Regina, Watson and Estevan</li> <li>The government of Manitoba's proposed 2021 budget allocates \$9.3 million for personal care home expansions that will add more than 120 beds</li> <li>The Ontario government will ensure that long-term care homes will be fully funded until the end of the summer regardless of how many residents they have or how badly they were hit during the pandemic</li> <li>The occupancy agreement will protect homes from suffering a significant financial loss, including for-profit homes that saw nearly half of their residents pass away from COVID-19</li> <li>Key insights from preventing and managing COVID-19, and renewing long-term care in other countries</li> </ul>
	interventions needed during the pandemic, pointing to the need for adequate staffing and the availability of medical care in long-term care homes (last updated March 2021)  Ensuring the safety and satisfaction of staff and volunteers	<ul> <li>Ensuring safety and satisfaction of staff and volunteers</li> <li>The Government of Australia invested a total of \$12.4 million in their grief and trauma response to support the aged care sector</li> <li>Supports will include counselling, training, and advocacy</li> </ul>
	One primary study reported on staff experienced in long- term care homes during the COVID-19 pandemic and found that staff reported feeling unprepared to care for residents due to a lack of information on the pandemic, limited personal protective equipment, and a reorganization of work	<ul> <li>assistance</li> <li>In Finland, new agreements concerning work arrangements for long-term care home staff now allow for greater flexibility for breaks and working times</li> </ul>
	leading to task-shifting and increased workloads (last updated March 2021)  Supporting technology-enabled living among residents	Key insights from preventing and managing COVID-19, and renewing long-term care in Canadian provinces and territories
	One systematic review found that the use of telehealth in long-term care homes reduced hospital admissions and exposure to COVID-19, as well as improved access to specialists including geriatricians, psychiatrists, and palliative care providers (AMSTAR rating 5/9; last updated October 2020)	<ul> <li>Ensuring adequate supply of staff</li> <li>The <u>federal government has extended support</u> from the Canadian Red Cross to select long-term care and retirement homes in Ontario until 30 September 2021</li> </ul>

Promoting	Enhancing the breadth and intensity of home, and community care	<ul> <li>The support was originally scheduled to conclude in March 2021</li> <li>Supporting technology-enabled care by staff</li> <li>Quebec released a guide about the use of telehealth under the health emergency act states that telehealth must be complementary to in-person care for patients in long-term care</li> <li>Professionals are to use their judgement and patient needs when determining the optimal modality for service delivery (e.g. telephone, videocall, in-person)</li> <li>Nurses, who plan and coordinate care in long-term care homes, are highlighted as having an important monitoring role during telehealth service delivery</li> <li>Key insights from preventing and managing COVID-19, and</li> </ul>
Promoting alternatives to long-term care	Enhancing the breadth and intensity of home- and community-care services to delay or avoid entry to long-term care  One systematic review conducted earlier this year found that community-based housing models to support older adults to 'age in place' improved individual's sense of self and autonomy through intentional design of the housing models (AMSTAR rating 5/9; last updated 2019)  One primary study found that nurses working in a "household model" may face role overload and strain especially related to organizational barriers and ongoing training and communication (last updated 16 April 2021)	Rey insignts from preventing and managing COVID-19, and renewing long-term care in other countries  Enhancing the breadth and intensity of home and community care services to delay or avoid entry to long-term care  • The Government of Australia is aiming to develop a Single In-Home Care Program to replace the pre-existing Commonwealth Home Support Program and Home Care Packages Program  • The new program will focus on patient-centered care for older adults living at home and/or in the community  • In Australia, permanent aged care residents are permitted to take an "emergency leave" until June 2021  • This temporary stay allows residents to live with their family during the COVID-19 pandemic  Key insights from preventing and managing COVID-19, and renewing long-term care in Canadian provinces and territories  Enhancing the breadth and intensity of home and community care services to delay or avoid entry to long-term care  • Quebec has introduced a provincial informal caregivers' policy aimed at recognizing and supporting the role of informal caregivers across four areas:

- o recognizing the importance of informal caregivers for society and responding to their needs
- o identifying and responding to caregivers' (and people surrounding caregivers') information and skill needs and supporting research
- evaluating caregivers' needs for, and appropriately adopting, health and social services while acknowledging the needs to establish a partnership with caregiver and the person they care for
- o maintain and improving the living conditions of informal caregivers, notably protecting them from financial insecurity
- Quebec has launched a call for projects as part of the existing provincial program aimed at developing age-friendly municipalities
  - The call for project enabled individuals or groups to request financial or technical support to develop or implement municipal policies or programs that support seniors
- In Quebec, the Ministry of Health and Social Services' 'Programme Action Aînés du Quebec' (Quebec Elderly Action Plan) is offering financial support to groups that work to support elderly people in the community, prevent social isolation, and prevent the deconditioning of elderly people living in the community
- In New Brunswick, the <u>Home First</u> program supports seniors to stay in their homes and remain engaged with their communities by focusing on three pillars for success: health aging; appropriate supports and care; responsive, integrated and sustainable system
  - Seniors (and their caregivers) are given personalized education and connected to the programs and services that can benefit them in their community
  - A minor home repairs grant of up to 1500 dollars that can be put towards safety enhancements is available as part of the program
- The Government of New Brunswick and the Public Health
  Agency of Canada have committed 75 million dollars towards
  the 'Health Seniors Pilot Project' to support applied research
  projects focused on one of the following challenge areas:

   challenges related to COVID-19 and older adults

	o social isolation and loneliness
	o needs of informal caregivers
	o enabling aging in place
	o how to make better use of supportive technologies
	• In Nova Scotia, Support for home-based elder care in Nova
	Scotia is delivered via the following programs and services:
	o a caregiver benefit of 400 dollars per month
	o a specialized health equipment loan program
	<ul> <li>home-based nursing and personal care services</li> </ul>
	o home oxygen service
	o financial assistance for personal alert assistance services
	o affordable facility-based respite care
	o self-managed care for individuals with physical disabilities to
	develop individualized care plans
	o a wheelchair loan program for low-income seniors
	o up to 1000 dollars per month for individuals with cognitive
	impairments to access home support services
	• On <u>2 March 2021</u> , the Yukon announced that it will be
	establishing affordable housing for older adults who are not able
	to live independently but still are not yet ready to move into
	continuing care
	o This project, Normandy Manor, will comprise of an 84-unit
	building, of which 10 units will be provided to the Yukon
	Housing Corporation to serve as housing units for the elderly
	o It is scheduled to open in 2022
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Table 2: Key findings from highly relevant documents identified in previous versions related to one or more COVID-19 vaccine roll-out elements

Preventing and managing COVID-19, outbreaks of COVID-19 and supporting the renewal in long-term care homes	Evidence from previous versions	Experiences from previous versions
General/cross- cutting	<ul> <li>One rapid review examines the range of guidance for long-term care homes across various jurisdictions in comparison to guidance that in Ireland with some variations noted between the guidance documents, including differences in asymptomatic testing, differences in monitoring systems for residents with symptoms, and changes in visitation rules in long-term care homes following vaccinations, among others (AMSTAR rating 2/9)</li> <li>One rapid review conducted earlier this year of government and expert guidance documents aimed to produce research-based tips to respond to questions and concerns emerging in the long-term care sector during the early stages of the COVID-19 pandemic, however the review revealed gaps in research evidence which found that available guidance provided details on what staff should do, but very little guidance was provided on how they should do it (Last updated October 2020; AMSTAR rating 3/9)</li> </ul>	No cross-cutting experiences were identified
Preventing infections	<ul> <li>Vaccinating staff and residents</li> <li>Canada's phased approach to immunization will prioritize residents and staff of congregate-living arrangements including long-term care homes (last updated December 2020; Public Health Agency of Canada)</li> <li>Prioritization of COVID-19 vaccination in a guideline from the Department of Health and Social Care in the U.K. is given to residents in care homes for older adults and their carers (last updated 6 January 2021; Department of Health and Social Care)</li> <li>A cohort analysis in one primary study of residents in a long-term care home found that partial vaccination with Pfizer-BioNtech COVID-19 vaccine was 63% effective against infection, however</li> </ul>	<ul> <li>Vaccinating staff and residents</li> <li>Australia and New Zealand began administering vaccines to long-term care staff and residents, and all other countries have continued vaccine roll-out in these populations</li> <li>In Germany, vaccine delays have resulted in mobile units that visit long-term care homes operating at only 67% capacity</li> <li>In The Netherlands, extra vaccines allocated to long-term care homes are being provided to designated caregivers to support safe and regular visits</li> </ul> Adhering to infection-prevention measures

- pre-existing immunity may strengthen the response to a single dose (last updated March 2020)
- One primary study of staff in Liverpool long-term care homes found that the mean staff vaccination rate was 51.4% per home with commonly cited reasons for not receiving the vaccine being: concerns about the lack of vaccine research, staff being off-site during vaccination sessions, pregnancy and fertility concerns, and concerns about allergic reactions (last updated March 2021)
- The same study suggested methods to combat hesitancy which included providing evidence and literature to staff to dispel misinformation, as well as hosting meetings and one-on-one conversations with staff (last updated March 2021)
- One primary study found no significant increase in vaccine effectiveness among residents between the first and second doses of the Pfizer-BioNTech vaccine, however vaccine effectiveness increased to 52% from days 0-7 after the second dose and 64% from seven days after the second dose (last updated March 2021)
- One primary study evaluated the transmission of the COVID-19 variant B.1.1.7 and found that the ongoing successful surveillance, testing and vaccination of residents in long-term care homes curtailed the variants spread in long-term care homes in Israel (last updated February 2021)

Adhering to infection-prevention measures

- Guidance from the Centres for Medicare and Medicaid emphasize working with state and local health departments to ensure a continuous supply of PPE for long-term care homes, as well as implementing requirements for staff to wear personal protective equipment and residents to wear masks that cover the nose and mouth (when it is safe to do so) whenever they are in shared spaces (last updated April 2020)
- WHO guidance recommends ensuring standard infection prevention is practised, including wearing PPE, hand hygiene, enhanced cleaning, and in areas with known or suspected transmission of COVID-19 to implement universal masking policies for staff, visitors and residents (last updated January 2021)
- Mixed results were found for the implementation of hand hygiene and personal protective equipment among older adults in long-

• During March 2021, the Aged Care Quality and Safety Commission in Australia performed 2,924 visits to long-term care homes as part of an infection control monitoring program

#### Restricting and screening staff and visitors

 As vaccine roll-out continues, the U.K. and U.S. have continued to update guidance documents for admitting residents to long-term care homes and visitations in long-term care homes

Key insights from preventing and managing COVID-19, and renewing long-term care in other Canadian provinces and territories

## Vaccinating staff and residents

- As of 19 February 2021, more than 30,000 residents (91%) of long-term care homes in B.C. have received at least a first dose of a COVID-19 vaccine
- As of 2 March 2021, in Saskatchewan, 91% of all long-term facility residents have received at least one dose of a COVID-19 vaccine
  - Although Saskatchewan extended the interval between first and second doses of COVID-19 vaccines to up to four months, as of 5 March 2021 <u>long-term care staff and</u> <u>residents are exempt</u> and will receive second doses as originally recommended
- In Alberta and New Brunswick, a first dose of a COVID-19 vaccine has been administered to all long-term care homes

# Adhering to infection-prevention measures

- In February 2021, the Canadian Association for Long Term Care released a summary of recommendations including a call for the federal government to provide \$93.2 million to support the recruitment and retention of infection prevention and control experts in care homes
- Shared Health Manitoba maintains a <u>library of COVID-19</u> resources, including informational posters, FAQs and tools,

- term care settings, however the authors note that the absence of evidence does not imply that these measures should not be implemented during the pandemic (last updated March 2020; AMSTAR rating 3/9)
- The most common recommendations in clinical practice guidelines on the prevention and control of COVID-19 include: establishing surveillance and monitoring systems; mandating the use of personal protective equipment; physically distancing or cohorting residents; environmental cleaning and disinfection; promoting hand and respiratory hygiene among residents, staff, and visitors; and providing sick-leave compensation for staff (last updated July 2020; AMSTAR rating 6/9)
- Surveillance, monitoring and evaluation of staff and resident symptoms and the diligent use of PPE were found to mitigate the risk of outbreaks and mortality within long-term care homes, as were other interventions including the promotion of hand hygiene and enhanced cleaning measures (last updated November 2020; AMSTAR rating 7/10)
- <u>Significant reductions in the prevalence of COVID-19 infection</u> <u>among staff and residents were attributed to the use of PPE</u> (last updated October 2020; AMSTAR rating 5/9)
- Education and training in proper wearing of PPE, ensuring an adequate supply of PPE, and adhering to strict hand hygiene were best practices for support staff in long-term care homes (last updated October 2020; AMSTAR rating 5/9)
- The effectiveness of infection-control measures is dependent upon several factors and a combination of strategies, with the most significant being: access to hand hygiene facilities in the workspace; restricting visitation; rapid identification of cases among both staff and residents through testing; environmental decontamination; allocating staff to one facility for reducing spread across several locations; and providing psychosocial support for staff (internal document published June 2020 available upon request; AMSTAR rating 0/9)
- Most clinical practice guidelines for adults aged 60 years and older in long-term care settings recommended hand hygiene practices, wearing personal protective equipment, social distancing or isolation, disinfecting surfaces, droplet precautions, surveillance

- for healthcare providers working in long-term and personalcare homes during the pandemic
- A 29 March 2021 directive from the Ministry of Health and Social Services in Quebec establishes COVID-19 safety guidelines for long-term care homes based on the publichealth alert level of the facility (orange level 3 alert, red level 4 alert, or grey preventive isolation or outbreak)
  - The Ministry of Health and Social Services has published an information sheet regarding the measures applicable to caregivers and visitors to residents of private retirement homes, with measures stratified based on the public-health alert level of the region
- New Brunswick published a <u>COVID-19 management guide</u> for adult residential homes and nursing homes

# Restricting and screening staff and visitors

- In B.C., long-term care homes will be allowed up to two visitors at a time while adhering to public health measures such as masks and sanitization practices as of 1 April 2021
- Nova Scotia has released guidance for long-term care visits, including social visitors and designated caregivers
- As of 12 March 2020, visiting restrictions for long-term care homes have been limited to one essential visitor, and group/external activities have been suspended in P.E.I. and Newfoundland and Labrador

# Testing of residents and staff

- Released on 12 March 2021, Manitoba's <u>infection prevention</u> and <u>control guidance for personal-care homes</u> states that testing for COVID-19 is recommended for all newly admitted or readmitted residents upon entry, except for those who have tested positive within the last 90 days
- In Ontario, according to a <u>directive of the Minister of Long Term Care effective 15 March 2021</u>, every licensed long-term care home must ensure that caregivers, staff, student placements, and volunteers working in or visiting a long-term care home take a COVID-19 antigen or PCR test at specific frequencies

- and evaluation, and using diagnostic testing to confirm illnesses (published March 2020; AMSTAR rating 7/9)
- The National Institute on Ageing (NIA) in Canada recommends an 'Iron Ring' set of actions including requiring the use of appropriate PPE by care providers and residents, and providing training to support its use (last updated April 2020; National Institute on Ageing)
- One rapid review conducted last year mapped the evidence related to isolation measures imposed in long-term care homes as a result of the COVID-19 pandemic and found that despite significant discussion of their negative impact, few specific solutions to mitigate the negative effects of isolation were mentioned (last updated August 2020; AMSTAR rating 2/9)
- One primary study documented the range of infection-prevention measures put in place in a Taiwanese long-term care home that were found to reduce COVID-19 transmission
  - These included measures for those entering the facility, those entering wards, staff working in wards, and residents in wards, such as education for staff and residents about COVID-19, regular hand sanitizing, cleaning of frequently used equipment, universal masking, and having specific vehicles and staff responsible for medical visits and acute-care transfer (last updated March 2021)
- One primary study implemented a three-part infection prevention and control assessment consisting of a screening tool, telephone checklist, and a COVID-19 video assessment that found observations that would have been missed using other approaches, including personal protective equipment that was not easily accessible, redundant or improperly donned and doffed (last updated March 2021)
- One primary study used a game to test willingness to make behavioural infection, prevention and control changes and found that <u>factors underlying the willingness to change included the feeling of playing an important role in fighting the epidemic, the information given in the training materials, the probability of infecting a relative, and the obligation to follow procedures (last updated March 2021)</u>

- One primary study explored adherence to prevention and control guidelines in 484 long-term care homes in China and found an average rate of 80% compliance (last updated January 2021)
- The same study found compliance was associated with the number of medical staff, the education level of the manager, long-term care home size, and establishment of a quarantine room/unit (last updated January 2021)
- One primary study evaluated changes in social distancing restrictions in long-term care homes nationally in the United States and found that strong social distancing measures were associated with lower weekly rates of COVID-19 cases and related deaths among staff and residents (last updated February 2021)

Adjusting resident accommodations, shared spaces and common spaces

- Social distancing and cohorting of residents may help to mitigate the risk of outbreak and mortality in long-term care homes (last updated November 2020; AMSTAR rating 7/10)
- Increased facility size, greater number of beds and number of staff (and who work in multiple homes) were associated with an increase in the probability of COVID-19 cases and size of outbreak (last updated November 2020; AMSTAR rating 7/9)
- Increases in the prevalence of COVID-19 infection among staff and residents was associated with inability to isolate infected residents, and infrequent cleaning of communal areas (last updated October 2020; AMSTAR rating 5/9)
- Further measures that can be effective at preventing future outbreaks, hospitalizations, and deaths from COVID-19 in long-term care homes include disallowing three- and four-resident rooms while increasing temporary housing to support crowded homes (last updated January 2021; AMSTAR rating 0/9)
- Guidelines describe using single rooms when available, and to cohort patients with positive cases of COVID-19 into units, floor, or a wing (last updated April 2020)
- Avoid shared activities within the same space, but if this is not possible, residents and staff should perform hand hygiene before, during and after activities, with adequate spacing between

- <u>residents</u> (last updated March 2020; Vancouver Coastal Health Authority)
- During meal times, residents should be distanced at least two metres apart and not facing each other, and when this is not possible, consider tray service or providing meals in shifts with appropriate sanitization between residents (last updated March 2020; Vancouver Coastal Health Authority)
- Seating in TV/media lounges should be arranged in theatre style with maximum spacing between chairs (two metres on each side is ideal) (last updated March 2020; Vancouver Coastal Health Authority)
- Long-term care homes should consider designating different zones including a transition zone for residents going to an acute-care facility, a COVID-19 free zone, and a COVID-19 positive zone (if patients are being cared for within the facility) each with their own patterns of traffic and a hand sanitizing station between (last updated June 2020)

Adjusting service provision

- Increase in the prevalence of COVID-19 infection among staff and residents was associated with hiring temporary staff and not assigning staff to care separately for infected and uninfected residents (last updated October 2020; AMSTAR rating 5/9)
- Ensuring adequate staff-to-patient ratios (though no estimate is provided), limiting staff work locations, and cohorting of staff and residents are all best practices to prevent infection in long-term care homes (Last updated October 2020; AMSTAR 5/9)
- Key aspects of palliative care were largely unaddressed in guidance provided to long-term care homes during the COVID-19 pandemic, including protocols for holistic assessment and management of symptoms and needs at the end of life (including stockpiling medications), education of staff concerning palliative care, referral to specialist palliative care or hospice, advance-care planning communication, support for family including bereavement care, and support for staff (last updated May 2020; AMSTAR rating 7/9)
- A rapid review described the need to support advance-care planning and provide psychological care for residents with

dementia by, for example, providing information and explanations if concern is expressed, using reminders and visual instructions to explain the current situation, using reassuring language and gestures to help residents follow safety regulations, ensuring frequent interactions with residents and taking time to listen to how they are doing, maintaining consistent schedules whenever possible, stimulating movement and exercise, and avoiding the use of negative language related to the pandemic (last updated September 2020; AMSTAR rating 7/9)

- National Institute on Ageing recommends limiting movement of LTC care providers to one care setting wherever possible, and simultaneously introducing incentives to do so, such as top-ups on pay (last updated April 2020; National Institute on Ageing)
   Restricting and screening staff and visitors
- Guidance from the Centres for Medicare and Medicaid suggest using symptom screening for every individual that enters a longterm care facility (last updated April 2020)
- WHO guidance recommends the use of symptom surveillance and/or regular laboratory testing of all staff, residents and visitors in areas with cluster or community transmission (last updated January 2021; World Health Organizations)
- Guidance from the Government of Canada for Indigenous longterm care homes recommends active screening for any new admissions or re-admissions, as well as any visitors and staff entering the building (last updated April 2020)
- No evidence was found to suggest that visitors have introduced COVID-19 infections to care homes, however this finding may reflect that most care homes did not allow visitors during peaks of the pandemic (last updated November 2020; AMSTAR rating 0/9)
- It was found that there was a severe impact on the well-being of residents in care homes during the period of visitor bans as demonstrated by high levels of loneliness, depression, and worsening mood of residents (last updated November 2020; AMSTAR rating 0/9)
- <u>Visitor restrictions should balance the risks of COVID-19</u> infection with the risks of well-being and quality of life of the

- resident, and should be frequently and transparently communicated to all residents and family members (last updated August 2020)
- Measures to minimize the introduction of COVID-19 infection during visitations from relatives and caregivers should be implemented and may include requiring the wearing of masks and testing visitors if local incidence is high (more than 50/100,000 per week) (last updated January 2021)
- Another primary study conducted last year examining the consequences of COVID-19 measures found <u>high levels of</u> <u>loneliness</u>, <u>depression and a significant exacerbation in mood and</u> <u>behavioural problems during the implementation of a ban on</u> <u>visitors</u> (last updated September 2020)

Testing of residents and staff

- There is emerging evidence that early detection of index cases through systematic testing of all residents and staff can support the prevention of outbreaks in long-term care homes (last updated December 2020; AMSTAR rating 3/9)
- Mass testing was a primary measure implemented in long-term care homes to reduce COVID-19 transmission, and the effect on morbidity and mortality of residents, staff, and visitors (Last updated 3 November 2020; AMSTAR rating 7/9)
- One study found that the comprehensive use of PCR testing in long-term care homes on all residents and staff following the identification of a single case and strict cohorting of residents who tested positive were effective in controlling the COVID-19 outbreak (last updated March 2021)
- One study conducted last year evaluated current testing pathways in long-term care homes and identified that <u>swab-based testing</u> was organizationally complex and resource intensive, requiring additional staff who were familiar to residents, whereas point-ofcare tests could give homes greater flexibility (last updated January 2021)
- One primary study found that the use of routine weekly COVID-19 PCR testing among staff in Israeli long-term care homes prevented hospitalizations and mortality (last updated January 2021)

Isolating suspected or confirmed cases among residents and staff

- WHO guidance recommends isolating suspected or confirmed cases of COVID-19 into single rooms, or if not possible, to cohort residents with other confirmed cases as well as a 14-day quarantine for any staff who have been exposed (last updated January 2021)
- Residents who are suspected or confirmed to have COVID-19 should be isolated into separate wards (last updated December 2020; AMSTAR rating 3/9)
- Though no research evidence was found in a rapid review on the effectiveness of cohorting residents, expert opinion suggests cohorting suspected or confirmed cases of COVID-19 when single rooms are not available (last updated June 2020; AMSTAR rating 8/10)
- Significant reduction in the prevalence of COVID-19 among residents and staff were attributed to self-confinement of staff who were suspected to have contracted COVID-19 (last updated October 2020; AMSTAR rating 5/9)
- <u>Isolation of staff suspected of contracting COVID-19 alongside</u> promoting and enforcing sick leave with adequate compensation is a best practice for support staff in long-term care homes (last updated October 2020; AMSTAR rating 5/9)
- The National Institute on Ageing recommends implementing testing and isolating procedures that include staff and residents who may be asymptomatic or have atypical presentations (last updated April 2020; National Institute on Ageing)
- Guidance from the European Geriatric Medicine Society recommends isolating those infected or have been in contact with those that are infected with COVID-19 (Last updated November 2020; European Geriatric Medicine Society)

Contact tracing among staff and visitors

• <u>Digital technologies for contact tracing systems, including wrist-worn technologies, have shown to be promising in reducing infection rates and mortality</u> (last updated December 2020; AMSTAR rating 3/9)

Supporting staff and residents

- Prior to the pandemic there was evidence of substantial provision of unpaid care by volunteers in care homes, suggesting that visitor bans and restrictions may have resulted in a reduction in the quality and quantity of care provided to residents during the pandemic (last updated November 2020; AMSTAR rating 0/9)
- The National Institute on Ageing (NIA) in Canada recommends an 'Iron Ring' set of actions including implementing flexible admission and discharge policies for LTC settings to give residents and their families the flexibility to defer a placement offer, or leave and return to a care setting quickly based on what would best support their overall health and well-being (last updated April 2020; National Institute on Ageing)
- The National Institute on Ageing encourages staff and family members to look for safe ways to engage with residents without entering the home, such as using tablets to communicate with residents or visiting residents through the window of their rooms (last updated April 2020; National Institute on Ageing)
- One rapid review found that <u>during lockdowns residents in long-term care homes with dementia experienced worsened</u>
  neuropsychiatric symptoms, cognitive decline and a greater use of <u>antipsychotics</u> (last updated February 2021; AMSTAR rating 5/9)
- One primary study found that <u>long-term care home outcomes</u> worsened for residents on a broad array of measures, including: increased prevalence of depressive symptoms; increased share of <u>residents with unplanned substantial weight loss; significant increases in episodes of incontinence; and significant reductions in cognitive functioning</u> (last updated March 2021)
- One primary study conducted in 2020 found significant weight loss among both COVID-19-positive and COVID-19-negative residents in a long-term care home population after a widespread COVID-19 outbreak, suggesting that long-term care homes should proactively ensure residents receive adequate mealtime support, symptoms management, weight monitoring, and comprehensive nutrition assessments (last updated November 2020)
- One primary study suggested roles that clinical students can undertake in long-term care homes during the COVID-19 pandemic that can provide mutually beneficial and safe

	opportunities, including gardening and general grounds beautification, record transfer, resident biography, and window entertainment (last updated March 2021)	
Managing outbreaks	<ul> <li>entertainment (last updated March 2021)</li> <li>Adding or replacing administrators and staff</li> <li>The American Geriatrics Society recommends authorizing the Department of Defense to work with the federal and state governments to coordinate the delivery and sharing of scarce resources across states, as well as working with local hospitals to provide additional supports to long-term care facility staff (last updated 29 April 2020; American Geriatric Society)</li> <li>Access to infection prevention and control specialists and outbreak response teams were found to reduce the size of outbreaks in long-term care homes (last updated October 2020; AMSTAR rating 5/9)</li> <li>Guidance from the European Geriatric Medicine Society recommends appointing an infection prevention and control focal point in each long-term care facility (Last updated November 2020; European Geriatric Medicine Society)</li> <li>Adhering to infection-control measures</li> </ul>	<ul> <li>Key insights from preventing and managing COVID-19, and renewing long-term care in other countries</li> <li>Making additional spatial service, screening, testing, isolation and support changes</li> <li>Australia developed the Victorian Aged Care Response Centre to help adequately respond to COVID-19 outbreaks in long-term care homes</li> <li>Australia has developed emergency response teams to support long-term care homes if a COVID-19 outbreak occurs</li> <li>Key insights from preventing and managing COVID-19, and renewing long-term care in Canadian provinces and territories</li> <li>Adhering to infection-control measures</li> </ul>
	<ul> <li>No highly relevant synthesized evidence identified Making additional spatial, service, screening, testing, isolation and support changes</li> <li>Guidance from the Centres for Medicare and Medicaid recommend using a separate team of staff when caring for residents who are suspected to have or have been in contact with COVID-19, as well as separating and moving residents into COVID-suspected and COVID-negative cohorts (last updated April 2020; Centres for Medicare and Medicaid)</li> <li>Advance-care planning should be undertaken with residents who have been diagnosed with COVID-19 and should include discussions about preferences for mechanical ventilation, and prescriptions to support pain management in a palliative approach should be made in advance for the problems that may arise (including that sub-cutaneous forms of prescription drugs as oral dosages may not be possible) (last updated March 2020)</li> <li>A guideline developed using a robust process provides guidance for public-health units on case, contact and outbreak management</li> </ul>	<ul> <li>New Brunswick published a COVID-19 management guide for adult residential homes and nursing homes, which addresses outbreak management</li> <li>Transferring residents when their care needs exceed capacity in the home</li> <li>Nova Scotia Health released a clinical pathway for COVID-19 patients from long-term care homes to guide patient management and transfers</li> </ul>

- of all confirmed cases of COVID-19 and for variants of concern with priority given to variants of concern in efforts to interrupt transmission to the community (last updated February 2021; Ontario Ministry of Health)
- One full systematic review found that <u>residents of long-term care</u> homes had on average a single-facility attack rate of 45% and a case fatality rate of 23% points to the need for early identification and rapid diagnostics of cases within homes (last updated September 2020; AMSTAR rating 9/11)
- One full systematic review suggested that genomics can help to understand the initial seedings and routes of transmission in outbreaks at long-term care homes, though most were found to link to a single strain and likely a single introductory source (last updated November 2020; AMSTAR rating 5/9)
- One rapid review compared the impact of initial government policies for long-term care homes between the U.K. and Australia and found that while both prioritized hospital resourcing over long-term care homes, early lockdown and availability of viral testing to the public contributed to lower absolute number of fatalities (last updated March 2021; AMSTAR rating 3/9)
- One rapid review summarized evidence on strategies that can be implemented to mitigate the risk of COVID-19 outbreaks in long-term care homes, including: comprehensive surveillance, monitoring and evaluation of staff and resident symptoms; limiting movement into and between long-term care homes; physical distancing; proper provision and use of personal protective equipment; cohorting of residents; and infection-control auditing (AMSTAR rating 8/10)
- One rapid review examined the continued use of asymptomatic testing in long-term care homes and found that given the high rates of protection from vaccines, the harms and challenges of routine asymptomatic testing may outweigh the benefits when all staff and residents have been vaccinated (last updated March 2021; AMSTAR rating 2/9)
- One primary study conducted earlier in the year described <a href="the-successful">the successful control of a COVID-19 outbreak in a long-term care home through the use of general screening and consistent</a>

	<ul> <li>cohorting of residents who tested positive (last updated January 2021)</li> <li>One primary study describes the treatment plan implemented in response to a COVID-19 outbreak in a large long-term care home in Johannesburg which included: repeatedly enforcing preventive measures; ensuring high-protein nutritional supplementation; monitoring residents' levels of oxygen saturation; educating staff on the importance of consistent vital checking; educating staff on frailty; continuous hydration of patients; and encouraging residents to have an advance directive and care plan (last updated February 2021)</li> <li>Transferring residents when their care needs exceed capacity in the home</li> <li>Limited evidence was found about the effectiveness of moving residents to hospital during a long-term care outbreak, though two countries (Canada and Taiwan) and two geriatric societies (Canada and U.S.) have recommended moving residents to hospital or other setting when isolation is not possible in a long-term care home in the event of a COVID-19 outbreak (internal</li> </ul>	
Changing governance, financial and delivery arrangements	document published November 2020 – available upon request; AMSTAR rating 0/9)  Improving access to care  No highly relevant synthesized evidence identified Improving safety and quality of care and more generally improving quadruple-aim metrics No highly relevant synthesized evidence identified Changing service-delivery models  Implementing end-of-life supports within long-term care homes and condition-specific pathways such as for pneumonia and dehydration, were found to reduce hospitalizations and emergency-department admissions among residents (last updated February 2019; AMSTAR rating 7/9)  A rapid review identified a variety of models of care and interventions to improve quality of life, quality of care, and health outcomes for residents living in long-term care homes, which included many studies on dementia care, oral care, exercise/mobility, overall resident care, and optimal/appropriate	<ul> <li>Key insights from preventing and managing COVID-19 and renewing long-term care in other countries</li> <li>Improving safety and quality of care and more generally improving quadruple-aim metrics</li> <li>In Australia, the Royal Commission into Aged Care Quality and Safety published a report with 148 recommendations to support fundamental and systemic long-term care reform</li> <li>Altering funding arrangements</li> <li>On 14 March 2021, Australia announced an additional \$1.1 billion to support the national COVID-19 response strategy, a portion of which will be allocated to supporting long-term care homes</li> <li>Commencing in April 2021, Australian residents gaining admission into government-funded long-term care homes will be mandated to complete an assessment to facilitate the</li> </ul>

medication use, and relatively fewer studies on hearing care, vision care, and foot care (last updated June 2020; AMSTAR rating 5/9) Improving physical infrastructure

- Long-term care facility characteristics such as non-profit status, rural homes and homes with a higher percentage of private rooms may be associated with higher quality of life (last updated March 2012; AMSTAR 4/9)
- The most important risk factors for outbreaks in long-term care homes were the incidence rates of infections in the surrounding communities of the homes, older design of certain homes, chain ownership, and crowding (last updated January 2021; AMSTAR rating 0/9)

Altering funding arrangements

- The American Geriatrics Society recommends increasing payment to nursing homes caring for residents with COVID-19 and providing tax relief for nursing homes that provide paid family leave to homecare workers and support staff caring for older adults and people with disabilities (last updated April 2020; American Geriatric Society)
- For-profit nursing homes were found to have worse outcomes in both employee and client well-being compared to not-for-profit nursing homes (last updated October 2015; AMSTAR rating 7/9)
- For-profit status long-term care homes had increased odds of case outbreaks than non-profit status long-term care homes (last updated November 2020; AMSTAR rating 7/9)
- A full systematic review found that <u>for-profit ownership was not</u> consistently associated with a higher probability of a COVID-19 outbreak, however it did find evidence that these homes had worse outcomes for cumulative infections and mortality following an outbreak in the long-term care home (last updated January 2021; AMSTAR rating 8/10)
- The same review found that <u>for-profit owned homes were</u> associated with shortages of personal protective equipment which may have contributed to increased infection and deaths in these <u>homes</u> (last updated January 2021; AMSTAR rating 8/10)
- One guidance document published earlier this year and developed using some type of evidence synthesis and/or expert opinion

transition to a new funding model, pending government approval

Key insights from preventing and managing COVID-19, and renewing long-term care in other Canadian provinces and territories

Improving safety and quality of care

- In <u>February 2021</u>, the Canadian Association for Long Term
  Care released a summary of recommendations for lsystem
  planning, which included mandating a standardized system for
  collecting residential and financial performance data in longterm care homes as part of the Canada Health Accord
  agreements signed with each of the provinces and territories
- On 29 March 2021, the Ontario government announced that it will invest \$77 million to help long-term care homes improve their technologies for medication safety
- The Institut national de santé publique du Québec submitted a memo about 'Preventing maltreatment for healthy aging' as part of the 'Governmental action plan to combat maltreatment against elderly people 2022-2027'

# Improving physical infrastructure

- The Canadian Association for Long Term Care called on the federal government to expand projects eligible for infrastructure funding to include seniors housing, which includes long-term care, to invest in the construction, renovation and retrofit of 780 long-term care homes so that they meet current design standards by 2025, and to increase capacity by committing to fund an additional 42,000 new long-term care resident beds across the country by 2025
- The Ontario government announced on 24 March 2021 that it is making <u>additional investments in long-term care</u> to improve existing infrastructure and access to care
- On <u>11 March 2021</u>, the Northwest Territories government announced an additional investment of 169 beds by 2034 in its revised projections for this sector

Г		
	provides guidance for people leaving hospital and being	
	transferred to care homes, including testing residents 48 hours	1
	prior to hospital discharge, those who are likely to be infected	•
	with COVID-19 are to be discharged to an isolation facility for 14	
	days, and long-term care homes should have been designated by	
	the Care Quality Commission (last updated February 2021; NHS	•
	England, Public Health England, and Care Quality Commission)	
	Adjusting governance arrangements	
	<ul> <li>No highly relevant synthesized evidence identified</li> </ul>	
	Supporting greater integration of long-term care with other sectors	
	<ul> <li>No highly relevant synthesized evidence identified</li> </ul>	
Supporting	Engaging residents, families and caregivers in self-management, care choices, care	ŀ
residents and staff	delivery, and organizational and policy decision-making	а
residents and staff	delivery, and organizational and policy decision-making  • Practical interventions to support shared decision-making were	a
residents and staff		a I
residents and staff	Practical interventions to support shared decision-making were	
residents and staff	<ul> <li>Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive</li> </ul>	
residents and staff	<ul> <li>Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive impairments, although implementing these types of resources in</li> </ul>	
residents and staff	• Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive impairments, although implementing these types of resources in extended care environments such as long-term care homes would require workers to be given the time and authority to develop the skills to use these types of aids (last updated October 2016;	
residents and staff	<ul> <li>Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive impairments, although implementing these types of resources in extended care environments such as long-term care homes would require workers to be given the time and authority to develop the</li> </ul>	<i>I</i>
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residents and staff	<ul> <li>Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive impairments, although implementing these types of resources in extended care environments such as long-term care homes would require workers to be given the time and authority to develop the skills to use these types of aids (last updated October 2016; AMSTAR 8/11)</li> <li>Family caregivers value their role in decision-making and want to</li> </ul>	H •
residents and staff	<ul> <li>Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive impairments, although implementing these types of resources in extended care environments such as long-term care homes would require workers to be given the time and authority to develop the skills to use these types of aids (last updated October 2016; AMSTAR 8/11)</li> <li>Family caregivers value their role in decision-making and want to maintain this role even when individuals are placed in a residential</li> </ul>	H aa
residents and staff	<ul> <li>Practical interventions to support shared decision-making were found to have good outcomes for persons living with cognitive impairments, although implementing these types of resources in extended care environments such as long-term care homes would require workers to be given the time and authority to develop the skills to use these types of aids (last updated October 2016; AMSTAR 8/11)</li> <li>Family caregivers value their role in decision-making and want to maintain this role even when individuals are placed in a residential setting; critical to this is frequent communication between staff</li> </ul>	H a a

• No highly relevant synthesized evidence identified

• No highly relevant synthesized evidence identified

(last updated April 2013; AMSTAR rating 6/10)

• No consistent evidence was found in examining the relationship

pressure ulcers where an increase in staff led to fewer ulcers

• An association was found between low staffing levels and

between staffing levels and quality of care, with the exception of

among residents regardless of the staff member delivering care

increased job strain and emotional exhaustion, as well as between

Supporting technology-enabled living among residents

Ensuring an adequate supply of staff

Altering funding arrangements

- Northwest Territories has allocated an additional \$406,000 in funding in the <u>2021-2022 Budget</u> to help support the increasing needs of the long-term care sector
- Budget 2021 further includes \$1.1 million to help train and support personal-support workers and nurses

# Key insights from preventing and managing COVID-19, and renewing long-term care in other countries

Ensuring adequate supply of staff

• The Netherlands has assigned medical students and interns to help relieve pressure in long-term care homes

Key insights from preventing and managing COVID-19, and renewing long-term care in other Canadian provinces and territories

Engaging residents, families and caregivers in self-management, care choices, care delivery, and organization and policy decision-making

 The Nova Scotia Health Authority and the Palliative and Therapeutic Harmonization Program published guidance on and a worksheet about goals-of-care discussions with residents' substitute decision-makers during the COVID-19 pandemic

Ensuring adequate supply of staff

In <u>February 2021</u>, the Canadian Association for Long Term
Care released a summary of recommendations for long-term
system planning, which included calling on the federal
government to include private designated learning institutions
that offer recognized and equivalent training programs for
healthcare aides as eligible programs under the Post Graduate

- a poor work environment (both physical infrastructure and job culture) and staff burnout (last updated August 2017; AMSTAR rating 4/10)
- No evidence suggested that the mix of licensed vocational nurses, registered nurses and licensed practical nurses, and total nursing staff had no significant relationship with quality of life (last updated March 2012; AMSTAR 4/9)
- At the organizational level, increased staffing, particularly registered nurse (RN) staffing was consistently associated with reduced risk of COVID-19 infections (last updated November 2020; AMSTAR rating 7/10)
- One primary study described a new model of long-term care homes that operate with fewer residents (maximum 140) and uses a flat staffing model that relies on a group of universal workers as well as nurses who provide about an hour of care a day to each of the residents (last updated March 2021)

Optimizing skills mix among staff

• The use of advance-practice nurses and extended-care paramedics in long-term care homes to respond to acute-care issues were found to reduce hospitalizations and emergency-department visits among residents (last updated February 2019; AMSTAR 7/9)

Ensuring the safety and satisfaction of staff and volunteers

- Empowerment and autonomy at work as well as facility resources (such as the equipment and supplies available for caring) and staff workload were all factors associated with job satisfaction and burnout among staff at long-term care homes (last updated May 2013; AMSTAR rating 7/10)
- One primary study conducted interviews with managers of longterm care homes in the U.S. and found an association between the perceived pandemic-specific and general demands of the job and intention to leave the profession (last updated March 2021)
- The same study found that the association was significantly stronger in the second round of interviews later in the pandemic (last updated March 2021)
- Interview data from one primary study conducted earlier this year found that <u>administrators working in long-term care homes</u> described the challenge of tracking and implementing confusing

- Work Permit, and in the upcoming micro-credentials program through Employment and Skills Development of Canada
- The Ontario government plans to invest \$4.9 billion over four years to increase the average direct care per long-term care resident from 2.75 to four hours a day
- \$121 million will also be spent on accelerated training for nearly 9,000 personal-support workers, and financial grants will be offered to attract personal-support workers and nurses to work in long-term care homes
- Despite the province's efforts to incentivize employment in long-term care, the Ontario Long-Term Care Association has indicated that long-term care in Ontario is losing staff to other industries

#### Remunerating staff

- Saskatchewan launched a Temporary Wage Supplement
   Program in March 2020 to financially support health workers
   who care for vulnerable citizens, including workers at long term care homes, at the rate of \$400 every four weeks
  - Applications for the latest phase of this program were closed after 15 February 2021
- On 18 March 2021, the Government of Saskatchewan amended legislation to allow for paid time off from work for employees when they are getting vaccinated for COVID-19, including staff of long-term and personal-care homes

and sometimes contradictory guidance from different agencies, while care staff described being fearful of infection and experiencing feelings of burnout due to increased workloads, staffing shortages, and the emotional weight of caring for residents facing isolation, illness and death (last updated January 2021)

Optimizing skills mix among staff

- One primary study published earlier this year described the introduction of a new role of a geriatric liaison in long-term care homes in Madrid during the pandemic who were responsible for the coordination of care between hospital, long-term care homes, and other members of a resident's care team (Last updated January 2021)
- One primary study identified four roles that nurse practitioners can play to support resident care during the pandemic: containing the spread of COVID-19; stepping in where additional staff are needed; supporting staff and families; and establishing links between fragmented systems of care by acting as a liaison (last updated February 2021)

Supporting technology-enabled care by staff

- Electronic health records demonstrated enhanced quality outcomes, improved management of clinical documentation and facilitated better decision-making (last updated April 2017; AMSTAR rating 4/9)
- Facilitators to the adoption of electronic health records in longterm care homes include access and transfer of resident information and reduced errors, while barriers include the initial investment cost and professional push-back on implementing a new system(last updated 2014; AMSTAR 4/9)
- Health information technology has been increasingly adopted by long-term care homes, but many homes do not employ systematic processes to implement health information technology, underinvest in staff training, and lack necessary infrastructure to implement the technology (last updated 2018; AMSTAR rating 3/9
- Health information technology may facilitate teamwork and communication, but does not appear to have an impact on quality

Promoting alternatives to long-term care	of care or resident health outcomes (last updated 2018; AMSTAR rating 3/9)  One primary study conducted earlier this year described volunteers' shift to online tools to support visiting with residents of a long-term care home, and reported that they were generally well received, though a few residents reported challenges hearing while others felt uncomfortable using the technology (last updated January 2021)  Remunerating staff  One of the most common recommendations in clinical practice guidelines on the prevention and control of COVID-19 was providing sick-leave compensation for staff (last updated July 2020; AMSTAR rating 6/9)  Fewer staff sick-leave days were associated with the probability of COVID-19 cases (last updated November 2020; AMSTAR 7/9)  Significant reductions in the prevalence of COVID-19 infection among staff and residents were in part attributed to sick pay to staff (last updated October 2020; AMSTAR rating 5/9)  Engaging residents, families and caregivers in shared decision-making about whether to enter long-term care  Dyadic counselling and communication tools such as talking mats can help to facilitate discussions and decision-making about older adults with dementia encurring long-term care homes (last updated	Key insights from preventing and managing COVID-19 and renewing long-term care in other countries  Programs to support residents transitioning from long-term care facility to community care have been established in three countries (Australia, Finland, U.S.)
		<ul> <li>countries (Australia, Finland, U.S.)</li> <li>Financial supports or professional respite services for family caregivers were established throughout the COVID-19 pandemic (Germany, The Netherlands, U.K.)</li> <li>While New Zealand continues accepting referrals to long-term care homes during COVID-19, specific protocols have been developed to delay admission to long-term care homes and instead provide care through home support agencies and/or community nursing services while waiting for COVID-19 test results</li> <li>The U.K. developed a number of supports to strengthen the home and community-care workforce, including advice to local health authorities and NHS to support home-care provision during COVID-19, remote training programs for paid and volunteer social care workers, and better supporting</li> </ul>

• Little evidence was found on how primary care and community nursing services for older adults can adapt during a pandemic, however findings suggested the need for timely communications of protocols and infection-prevention measures among the care team, need for psychosocial, financial, and emotional support, training and skills development, and debriefing with staff to ensure resilience (last updated June 2020; AMSTAR rating 3/9)

Supporting technology-enabled care at home

- Older adults living at home can benefit from combining virtual visits with in-person visits to remain at home longer and to enhance feelings of independence, social inclusion and medication compliance (Last updated April 2013; AMSTAR rating 5/9)
- One primary study conducted earlier in the year described a rapidresponse and treatment service that uses technology and the hospital-at-home model to provide short-term, targeted interventions at the acute hospital level within the home, and was found to support older adults to remain in their own homes throughout the duration of their illness (last updated December 2020)

Providing financial supports to avoid or delay entry into long-term care

• No highly relevant synthesized evidence identified

live-in-care, care-room (support for discharged patients by approved home owners in the community), and assisted-living models of care

# Key insights from preventing and managing COVID-19 and renewing long-term care in Canadian provinces and territories

- In September 2020, the federal government announced a commitment to work with provinces and territories to help people stay in their homes longer
- Several provinces (B.C., Alberta, Manitoba, Ontario) have provided additional support for home and community care services
- In Alberta, a private model of care called Community Care Cottages houses 10-12 residents to provide around-the-clock care
- The Manitoba government has invested \$250 million to improve access to health services including moving 21,000 days of care from acute homes into local communities
- In Newfoundland and Labrador, the Centre for Health Information has expanded their telehealth care services during the pandemic
- Although \$2.88 billion in funding was provided to home care in Ontario in the 2019-20 budget, <u>according to the Ministry of</u> <u>Health and Long-Term Care</u>, there was no similar funding allocated in the proposed 2020-21 <u>budget</u>
- In Quebec, The Ministry of Health and Social Services has published guidance regarding how to adapt the delivery of home-based care to the COVID-19 pandemic context
  - The guidance is stratified based on the public-health allert level of the region
- General infection-prevention and safety measures are outlined, as well as specific measures for adapting service delivery

Table 3: Overview of type and number of documents related to preventing and managing COVID-19, outbreaks of COVID-19, and about supporting renewal in long-term care homes \*

Type of document	Total (n=)**	Preventing infections (n= 133)	Managing outbreaks (n=51)	Renewing delivery, financial and governance arrangements (n= 37)	Supporting residents and staff (n= 45)	Promoting alternatives to long-term care (n= 13)
Guidelines	26	22	8	4	4	-
Full systematic reviews	38	3	2	15	20	6
Rapid reviews	37	25	7	8	3	3
Protocols for reviews that are underway	24	11	9	2	8	2
Titles/questions for reviews that are being planned	7	5	-	-	-	2
Single studies that provide additional insight	128	82	31	11	16	2

<sup>\*</sup>The table includes all newly identified evidence documents and all highly relevant evidence documents identified in previous versions of this LEP that continue to be deemed highly relevant.

<sup>\*\*</sup>Some documents were tagged in more than one category so the column total does not match the total number of documents.

Waddell KA, DeMaio P, Wilson MG, Bain T, Wang Q, Al-Khateeb S, Alam S, Sharma K, Whitelaw S, Gauvin FP, Lavis JN. COVID-19 living evidence profile #2 (version 2.3): What is known about preventing and managing COVID-19, outbreaks of COVID-19, and about supporting renewal in long-term care homes? Hamilton: McMaster Health Forum, 26 April 2021.

The COVID-19 Evidence Network to support Decision-making (COVID-END) is supported by an investment from the Government of Canada through the Canadian Institutes of Health Research (CIHR). To help Canadian decision-makers as they respond to unprecedented challenges related to the COVID-19 pandemic, COVID-END in Canada is preparing rapid evidence responses like this one. The living evidence profile update is funded both by CIHR and by the Public Health Agency of Canada. The opinions, results, and conclusions are those of the evidence-synthesis team that prepared the rapid response, and are independent of the Government of Canada and CIHR. No endorsement by the Government of Canada or CIHR is intended or should be inferred.



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