



Appendices for COVID-19 Living Evidence Profile #4

(Version 2: 15 June 2021)

Appendix 1: Methodological details

We use a standard protocol for preparing living evidence profiles (LEP) to ensure that our approach to identifying research evidence as well as experiences from Canadian provinces and territories are as systematic and transparent as possible in the time we were given to prepare the profile. However, given that it was unlikely that we would find evidence syntheses and many empirical studies, we adapted the protocol to give greater attention to single studies and to include opinion pieces that justify the position(s) taken in ways described below.

Identifying research evidence

For each LEP, we typically search our continually updated <u>inventory of best evidence syntheses</u> and <u>guide to key COVID-19 evidence sources</u> for:

- 1) full systematic reviews;
- 2) rapid reviews;
- 3) protocols for reviews or rapid reviews that are underway;
- 4) titles/questions for reviews that are being planned; and
- 5) single studies.

In this case, we searched primarily for:

- 1) single empirical studies, including those published in the peer-reviewed literature, as pre-prints, and in the 'grey' literature; and
- 2) opinion pieces, specifically those that justify the position(s) taken with one or more of:
 - a. explicit assessment of the pros and cons of a course of action compared to the alternatives available,
 - b. cited data and/or evidence that was explicitly used in deriving lessons learned,
 - c. documented stakeholder-engagement process to elicit lessons learned, and
 - d. endorsement of lessons learned by a formal group (e.g., Canadian academies) or a large, informal group of signatories to a statement describing lessons learned.

To complement the databases containing COVID-19-specific single studies that are listed in the COVID-END guide to key COVID-19 evidence sources, we also searched EMBASE and select grey-literature sources to identify any relevant empirical studies and opinion pieces. The grey-literature sources include:

- 1) websites of international agencies (Organisation for Economic Cooperation and Development and World Bank) and Canadian agencies (Canadian Institutes of Health Research, Canadian Institute for Health Information, Public Health Agency of Canada, and Statistics Canada);
- 2) databases of government reports (Federal Sciences Library, Office of the Auditor General, Office of the Parliamentary Budget Officer, and Policy Horizons Canada); and
- 3) grey-literature databases (Canadian Public Policy Collection, Canadian Research Index, and OAIster).

Each source for these documents is assigned to one team member who conducts hand searches (when a source contains a smaller number of documents) or keyword searches to identify potentially

relevant documents. A final inclusion assessment is performed both by the person who did the initial screening and the lead author of the living evidence profile, with disagreements resolved by consensus or with the input of a third reviewer on the team. The team uses a dedicated virtual channel to discuss and iteratively refine inclusion/exclusion criteria throughout the process, which provides a running list of considerations that all members can consult during the first stages of assessment. For this update, we conducted searches in English. For next month's update we will conduct searches using French-language terms.

We do not exclude documents based on the language of a document. However, we are not able to extract key findings from documents that are written in languages other than Chinese, English, French or Spanish. We provide any documents that do not have content available in these languages in an appendix containing documents excluded at the final stages of reviewing.

Identifying experiences from other countries and from Canadian provinces and territories

For each LEP, we collectively decide on what countries to examine based on the question posed. However, since this LEP was only focused on what went well and what could have gone better in the COVID-19 response in Canada, we did not include other countries in the jurisdictional scan. For the scan of Canadian provinces and territories, we search relevant sources included in our continually updated guide to key COVID-19 evidence sources. These sources include governmentresponse trackers that document national responses to the pandemic. In addition, we search websites from relevant federal and provincial governments and agencies (e.g., public-health agencies and auditor-general offices). If municipally relevant documents appeared while conducting the searches they were included.

Assessing relevance and quality of evidence

We assess the relevance of each included evidence document as being of high, moderate or low relevance to the question. We then use a colour gradient to reflect high (darkest blue) to low (lightest blue) relevance.

For this update, we used AMSTAR to appraise the methodological quality of full systematic reviews and rapid reviews deemed to be highly relevant. Our standard protocol is that two reviewers independently appraise the methodological quality of systematic reviews and rapid reviews that are deemed to be highly relevant. Disagreements are resolved by consensus with a third reviewer if needed. AMSTAR rates overall methodological quality on a scale of 0 to 11, where 11/11 represents a review of the highest quality. High-quality reviews are those with scores of eight or higher out of a possible 11, medium-quality reviews are those with scores between four and seven, and low-quality reviews are those with scores less than four. 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 health-system arrangements or to economic and social responses to COVID-19. Where the denominator is not 11, an aspect of the tool was considered not relevant by the raters. In comparing ratings, it is therefore important to keep both parts of the score (i.e., the numerator and denominator) in mind. For example, a review that scores 8/8 is generally of comparable quality to a review scoring 11/11; both ratings are considered 'high scores.' A high score signals that readers of the review can have a high level of confidence in its findings. A low score, on the other hand, does not mean that the review should be discarded, merely that less confidence can be placed in its findings and that the review needs to be examined closely to identify its limitations. (Lewin S, Oxman AD, Lavis JN, Fretheim A. SUPPORT Tools for evidence-informed health Policymaking

(STP): 8. Deciding how much confidence to place in a systematic review. *Health Research Policy and Systems* 2009; 7 (Suppl1):S8.

We also identified the methodology of included empirical studies deemed to be highly relevant and undertook quality assessments for quasi-experimental studies using the <u>Maryland Scientific Methods</u> <u>Scale</u>. The Maryland Scientific Methods Scale is a five-point scale ranging from 1, for evaluation based on simple cross-sectional correlations, to 5, for randomized control trials. We were prepared to complete quality assessments for experimental studies using the Cochrane risk of bias assessment had we found any. For the next update of this LEP, we will present quality appraisals for highly relevant quantitative observational studies, (using ROBINS-I) and highly relevant qualitative studies (using either CASP or JBI).

Preparing the profile

Each included document is hyperlinked to its original source to facilitate easy retrieval. For all included evidence syntheses, empirical studies and opinion pieces a small number of bullet points that provide a brief summary of the key findings, which are used to summarize key messages in the text. Protocols and titles/questions have their titles hyperlinked given that findings are not yet available. We then draft a brief summary that highlights the total number of different types of highly relevant documents identified (organized by document), as well as their key findings, date of last search (or date last updated or published), and methodological quality.

Organizing framework

For this living evidence profile, we organized our results by COVID-19 response type and by part of the question being addressed using an explicit equity lens.

The first organizing framework is for type of COVID-19 response:

- cross-cutting by federal vs provincial (vs municipal) and by shift in policy instrument (and/or condition, treatment, sector, or population);
- public health measures (e.g., stockpiling personal-protective equipment), by federal vs provincial (vs municipal) and by shift in policy instrument;
- clinical management, by condition and/or treatment (typically provincial for topics like drug formularies);
- health-system arrangements, by sector (e.g., long-term care) and population (e.g., essential workers and racialized communities) and by federal/pan-Canadian/cross-provincial vs provincial) and by shift in policy instrument;
 - o governance arrangements (e.g., dividing up or keeping public-health functions together),
 - o financial arrangements,
 - delivery arrangements; and
- economic and social, by sector and by federal (vs provincial) (vs municipal) and by shift in policy instrument.

The second organizing framework is for the three parts of the question:

- what went well;
- what could have gone better; and
- recommendations on what will need to go well in the future given any available foresight work being conducted.

Response type	Lessons from evidence documents	Lessons from government reports and analyses
Cross-cutting	Lesson for the provincial level	
	• A single study summarized COVID-19 responses	
	among Canadian provinces and territories and	
	found that there was no formally coordinated	
	approach to pandemic, poor communication from	
	the government, and information fatigue with the	
	public, which contributed to varied recovery and	
	reopening plans with mixed levels of success	
Public health measures		Lessons for the federal level
		• A report from the Auditor General of Canada to the
		Parliament of Canada determined that the Public Health
		Agency of Canada (PHAC), Health Canada, and Public
		Services and Procurement Canada helped to meet the
		needs of provincial and territorial governments for
		selected PPE (i.e., N95 masks and medical gowns) and
		medical devices (i.e., testing swabs and ventilators) during
		the pandemic
		• Despite unaddressed long-standing issues with the
		National Emergency Strategic Stockpile, PHAC
		improved its procurement and distribution systems
		(e.g., moving to bulk purchasing and outsourcing
		warehousing and logistical support), modified
		equipment supplier license applications, and accepted
Clinical management	I among for the previous of lovel	risk to procure large quantities Lessons for the federal level
Clinical management	Lessons for the provincial level	
	• In Ontario the COVID-19 pandemic has had	• Structural changes to both essential and non-essential
	substantial impact on cervical cancer screening and related services	service industries led to <u>strong labour productivity growth</u>
	• The authors of one study highlight key	in Canadian business sector during the COVID-19 pandemic
	<u>considerations as the pandemic continues such</u>	<u>1</u>
	as: facility- or regional-level strategies to	• The widespread adoption of work-from-home
	optimize resources to manage colposcopy	arrangements may be a long-lasting change, as according
	backlog, implementation of a centralized referral	to an impact report on Canada's productivity growth,
	intake and waitlists, monitoring of local data	
	intake and wathsts, monitoring of ideal data	1

Appendix 2: Highlights from highly relevant evidence documents and experiences from Canadian provinces and territories

	during recovery phase, and resumption of patient reminders	 some industries have experience cost savings from less demand for office space and equipment However, additional research is needed to determine the overall impact of work from home on business productivity A <u>Statistics Canada report</u> found an increase in the number of young people (between 15 and 29) not in employment, education or training throughout the pandemic According to a <u>Statistics Canada report the Canadian Emergency Response Benefit was well targeted</u> and most likely to be paid out to workers in industries severely affected by the pandemic, individuals in minority groups, Indigenous workers, younger workers, and low wage workers, most of whom were at a higher risk of being exposed to COVID-19 at work or becoming unemployed
Health-system arrangements		 Lessons for the federal level According to a report of the Auditor General of Canada to the Parliament of Canada, <u>Indigenous Services Canada</u> adapted quickly to expand access to PPE and health workforce (e.g., nurses and paramedics) to help <u>Indigenous communities and organizations respond to the COVID-19 pandemic</u>, but the department did not meet more than half of the requests for extra contract nurses and paramedics The report recommended that partnerships should continue between the Indigenous Services Canada and Indigenous communities and organizations in order to develop approaches to address the ongoing shortage of nurses in remote or isolated First Nations communities and to improve access to nursing and paramedic support in these communities
Economic and social	 Lessons for the provincial level An Ontario-based modelling study predicted elementary school learning shortfalls due to <u>COVID-19</u>, where the authors recommended that schools should: 	

 o offer high-quality and targeted supplemen 	tary
interventions (e.g., six-week programs) in	the
summer and continue into 2022 and beyon	nd in
order to reduce learning losses	
o offer real-time interactions between stude	nts
and teachers within online instruction mo	dels
during the COVID-19 pandemic and futu	re
emergency responses	

Appendix 3: Highlights from highly relevant evidence documents and experiences identified in previous updates

	• Lack of timely release of national guidelines for	
	managing cases in long-term care homes	
	 Lack of national data-collection standards 	
	resulting in inconsistencies in how surveillance	
	data is reported, particularly as they relate to	
	reporting on income levels and race-based data	
	• Backlogs in testing and rigid testing criteria	
	challenged understanding the full	
	epidemiological picture	
	• Lack of human resources to undertake contact	
	tracing limited further containment of the virus	
	 Limited supports available for those 	
	experiencing housing insecurity and	
	homelessness, and including these	
	considerations in public-health guidelines (last	
	updated February 2021)	
Public-health measures	Lessons for the federal level	Lessons for the federal level
	• A qualitative study reported that <u>most news releases</u>	• Statistics Canada reported that <u>implementation of</u>
	and communications aligned with the tone and	physical-distancing guidelines during the pandemic led to
	timing of messages from Chief Medical Officers of	increased outdoor activity, including road closures in
	Health and changing epidemiological status of	favour of pedestrian and cyclist use and park visitation, as
	COVID-19 (i.e., prescriptive and conveyed	it was crucial to optimizing mental health
	appropriate recommendations and mandates) (last	• CIHI's evaluation of COVID-19's impact on long-term
	updated September 2020)	care found that provincial-level recommendations
	• An opinion piece by the Canadian Centre for Policy	included implementing mandatory infection-control
	Alternatives (a non-partisan research institute)	practices, PPE and training provision, response planning
	described the challenges of applying public-health	with rapid testing and contact tracing strategies, and
	guidelines in First Nations communities, which	reducing crowds in LTC homes
	were primarily due to existing inequities in access to	 CIHI's report comparing Canada and other countries'
	water and housing (last updated May 2020)	pandemic experience in the long-term care sector found
	An opinion piece by the Canadian Centre for Policy	that <u>countries that implemented mandatory prevention</u>
	Alternatives described the challenges of applying	measures, stay-at-home orders, and closures of public
	public-health guidelines in First Nations	places had fewer COVID-19 infections and deaths in LTC
	communities and recommended that <u>future</u>	 A Statistics Canada report indicated that <u>children's</u>
	guidance should include the voices of the	learning activities varied based on household income and
	Indigenous communities, and that appropriate	parental-engagement levels
	funding should be allocated to address challenges	parentar engagement revers
	runanic should be anotated to address chancinges	

	that have been compounded during the pandemic.	• Lower-income households may lack access to personal
	<u>(l</u> ast updated May 2020)	computers for children's learning activities, and
L	essons for the provincial level	parental engagement may be affected by competing
•	A primary study that compared non-pharmaceutical	work obligations
	interventions used by Canadian governments found	• The Auditor General of Canada found that <u>emergency</u>
	that British Columbia was the first province to	orders to prohibit entry of foreign nationals were quickly
	enact the most rigorous measures before the	implemented by the Canada Border Service Agency, and
	pandemic declaration by the WHO, whereas the	PHAC did not meet its target to verify arriving travellers
	other provinces implemented measures following	completed mandatory 14-day guarantine
	the declaration (last updated August 2020)	• <u>Reviewing the decisions made by border-service</u>
•	A primary study about best practices of <u>COVID-19</u>	officers and improving systems and processes of
	outbreak management in long-term care homes in	verifying compliance to mandatory quarantine can
	British Columbia found that rapid testing,	address gaps in border-control measures
	implementation of public-health measures (e.g.,	The Chief Public Health Officer of Canada's report
	visitor restrictions, cohorting, single-site restriction	highlighted that Canada's healthcare system was protected
	for staff), external assistance from infection-	due to increased public-health measures and healthcare
	prevention and control support teams, adequate	capacity undertaken by provinces and territories between
	access to personal protective equipment, team-	April and August 2020
	based approaches, and coordinated communication	Lessons for the provincial level
	between support teams were essential to control	• An evidence brief on the <u>economic impacts due to public</u> -
	and manage COVID-19 outbreaks (last updated	health measures in response and recovery during and after
	March 2021)	COVID-19 published by Public Health Ontario
•	A primary study evaluated a virtual education	recommends:
	program called the <u>Elderly-Long-Term Care (COE-</u>	• A data-driven, regional or provincial approach (instead
	LTC) COVID-19, and found that it is useful tool to	of a reactive and local approach) to support a
	deliver new best practices for healthcare delivery by	sustainable transition from response to recovery as
	healthcare providers in long-term care (last updated	vaccination rates increase in Ontario
	February 2021)	 Lockdown strategies that maintain a moderate
•	A primary study analyzed survey results from	lockdown level are more effective than oscillating
	individuals involved in the hospital-based Infection	between strict and mild lockdowns according to
	Prevention and Control (IPAC)-SWAT team, and	published modelling studies cited in the brief
	found that 93.5% of respondents felt the team	• Early action with stringent public-health measures can
	improved the management of COVID-19 outbreaks	be less costly for the economy than multiple less-
	at long-term care homes in Ontario (last updated	intense, shorter duration lockdowns
	Feb 2021)	• Basic income for individuals affected by lockdowns
•	An economic modelling study reported that a	should be in place
	rebound in household spending and GDP growth	

<u>may increase in 2021</u> following the impacts of social distancing from 2020 (last updated March 2020)	 An evaluation based on modelling data assessing the impact of social-distancing policies in British Columbia
• An economic modelling study reported that	found that social interaction was reduced to 30% of
Canada's economy will <u>expand by 5.8% by the end</u>	normal levels and returning to 80% and 60% of pre-
of 2021 and 4.0% in 2022 due to vaccine roll-out	COVID-19 social interactions and physical distancing
and gradual reopening of the economy (last updated	would result in significant and steady increases in cases,
March 2021)	
	respectively
• A cross-sectional survey that assessed the	• A recovery plan by the Government of British Columbia
preparedness of Ontario's long-term care sector	assessed that <u>62% of total jobs lost were restored by</u>
found that there were <u>concerns regarding the</u>	August 2020 as businesses were allowed to reopen
feasibility of implementing public-health measures	• A survey conducted by the Government of Saskatchewan
• A cross-sectional survey that assessed the	reported that <u>17% of residents expressed confusion over</u>
preparedness of Ontario's long-term care sector	COVID-19 public-health orders and restrictions
stated the need for better engagement with long-	• The Office of the Auditor General of Ontario released a
term care system leaders to coordinate better	six-part report describing areas that delayed Ontario's
pandemic responses (last updated October 2020)	COVID-19 response, to address:
• A primary study about best practices of COVID-19	• The insufficient exercise of powers by the Chief
outbreak management in long-term care homes in	Medical Officer of Health of Ontario and delays in
British Columbia reported that <u>reducing the delay in</u>	early decisive actions
identifying cases, implementing control measures,	• The lack of coordination and diminished role by Public
addressing harms related to isolating residents,	Health Ontario in overall provincial response, leading
addressing staff shortages, and improving	to confusion on roles and responsibilities among local
<u>communication between support teams</u> were areas	medical officers of health
of future improvement (last updated March 2021)	• The variations in management and operations among
	public-health units, delays in modernizing public-
• A modelling study compared trends in COVID-19	health information systems and lack of race-based
cases in Canada and Italy and found that it is	information collection and consideration in decision-
imperative to take immediate action by	making
implementing a comprehensive strategy consisting	0
of multiple public-health interventions (last updated	The Institut national de santé publique du Québec
March 2020)	released preliminary data analysis showing that provision
	of one dose of mRNA vaccines reduced COVID-19 cases
	among LTC residents, with significant reductions in case
	numbers observed 28 days post-vaccination and 95%
	reduction in COVID-19 related deaths in March 2021
	compared to December 2020

		 Adopt a strategy for ethical prioritization of patient/client care activities
Health-system arrangements	 Lessons for the federal level Three next steps were identified in a <u>stakeholder</u> dialogue designed to systematically elicit stakeholder views on identifying and harnessing the potential of 	 Lessons for the federal level Canadian Institute for Health Information's <u>analysis of pandemic data from the first wave</u> of the COVID-19 pandemic (March 1 to August 31, 2020) concluded that
	 technology in long-term care across Canada, both in general and in relation to COVID-19 Harnessing technologies that enable person-centred care and support in long-term care 	long-term care residents across Canada received fewer physician visits and opportunities for hospital transfers, had to wait longer to be discharged back to their homes, and had fewer visits from family when compared to the
	 Implementing policy and organizational processes in the sector that support making small yet rapid changes that are centred on residents, caregivers and families Using funding models that enable ways of doing 	 same period in 2019 The analysis found that there was also a significant drop in new admissions to long-term care homes <u>Recommendations to improve the long-term care response across provinces and territories included</u>
	 things differently A study evaluating the changes to the operation of cancer treatment centres across Canada during the first wave of the pandemic found that cancer screening reduced significantly because of a reduction in the availability of practitioners and 	increasing staff levels and retention programs for long- term care workers, improving home inspection and enforcement processes, improving accountability among staff within each home and system-wide, and increasing communication and coordination across all parts of the system
	 necution in the availability of practitioners and measures to limit screenings <u>Providing telemedicine as a substitute for in-</u> person cancer screening was found to have <u>many limitations and therefore was not an</u> effective solution 	 A <u>survey conducted by Statistics Canada</u> indicated that improvements were made in providing infection- prevention and control equipment and support to Canadians working in healthcare settings by the second wave of the pandemic
	 Outreach programs may be needed in the coming months and years to catch up on the backlog of cancer screenings and reduce delays in diagnoses and treatment (published 28 February 2021) 	 The survey results demonstrated that respirators were always available on the job for more than 60% of respondents who required them, and more than half of the respondents said that they received formal IPAC training and were supported by their employers when they were sick and needed to stay home
	• An opinion piece from the Centre for Policy Alternatives examined the conditions that were central to the crisis experienced in long-term care homes across Canada, which included <u>labour force</u> <u>challenges</u> , <u>punitive regulations focused on physical</u> <u>structures and workers rather than working</u>	 Lessons for the provincial level An evaluation of the effects of the COVID-19 pandemic on mental health in Saskatchewan found that <u>the uptake of</u> <u>online/phone supports was lower than anticipated</u>,

conditions, ownership and employer practices,	resulting in a significant number of people with existing
positioning of LTC and residential care homes	mental health disorders no longer being treated
outside of what is included in the Canada Health	The <u>Auditor General of Ontario's Special Report on</u>
Act, and deficiencies in the physical structures of	Outbreak Planning and Decision-Making provided nine
LTC homes (published April 2020)	recommendations with 29 action items to address:
Lessons for the provincial level	• The diminished role of public-health expertise at the
• A primary study comparing the approaches of	Ontario Health Command Table that was often cited
British Columbia and Ontario in long-term care	as complex and confusing
homes found that British Columbia responded	• The significant leadership changeover, outdated
faster than Ontario with actions that included a	emergency plans, lack of involvement, inadequate
single-site working policy, standardization of staff	communications and record-keeping, and lack of
wages, support for homes in outbreak through	sufficient staff to implement a provincial response
specialized response teams regardless of governance	structure that was demonstrated by Ontario's
or facility ownership, a universal masking	Provincial Emergency Management Office
requirement from the outset, the setting of a single	• The insufficient amount of scientific expert advice
case as the outbreak threshold, and implementing	during decision-making
testing and screening for all asymptomatic residents	• The Auditor General of Ontario's Special Report on
(last updated 23 November 2020)	Pandemic Readiness and Response in Long-Term Care
• The same study also found that <u>British</u>	described 16 key recommendations with 55 action items to
Columbia had stronger links between long-term	address:
care and public health (last updated 23	• The LTC sector's facility, staffing, and infection-
November 2020)	prevention and control issues that existed before the
• A cross-sectional study assessing the preparedness	pandemic
of Ontario's long-term care sector for the COVID-	• The disconnect between long-term care and other care
19 pandemic from a clinician perspective found that	services
while communication and implementation of the	• The unintended consequences on long-term care staff
province's recommendations was evident in the	and residents caused by the pandemic response
long-term care sector, concerns about feasibility of	• Unclear communication, lack of enforcement and
implementing the recommendations were raised by	oversight that affected containment of COVID-19
clinicians	The Ontario Long-term Care COVID-19 Commission
o long-term care clinicians identified a need for	report found that the province's lack of pandemic
better engagement with long-term care leaders to	preparedness (e.g., no simulations for a pandemic or
plan a more coordinated pandemic response	tracking of PPE supplies in LTC), poor leadership, and the
(published 22 October 2020)	existing poor state of the long-term care sector (e.g.,
One observational study found that <u>collaboration</u>	insufficient trained workforce and improper home
between a nursing home and an acute-care hospital	infrastructure) led to the current devastation

ГТТ		
	<u>in Toronto, Ontario was effective at managing a</u>	• <u>Best practices that were reportedly applied in some</u>
	large COVID-19 outbreak early in the pandemic	LTC settings included decisive and effective
	• Key features of the collaboration included	leadership, support for staff, pandemic planning,
	building trust, having a robust clinical and	robust IPAC practices, and relationships with other
	operations team, and a non-hierarchal structure	health partners
	to working with nursing home staff (published	The Ontario Patient Ombudsman provided four key
	May 2020)	recommendations based on 250 complaints related to
	• An observational study assessing changes to the	long-term care homes during the COVID-19 pandemic:
	mobility of long-term care home staff in Ontario	o Backstops and contingency plans for all healthcare
	both before and after the implementation of a one-	providers
	site policy found that mobility of nursing home staff	• Visitation policy changes
	reduced significantly after the policy was	• Dedicated resources for communication
	implemented, where nursing home staff with a	• Enhanced whistleblower protection
	connection to another home fell by 70.3%	A report from Northwood Quality-improvement Review
	• The reduction of staff mobility should be a	Committee in Nova Scotia identified key drivers for the
	focus of risk-reduction efforts during a state of	largest nursing home outbreak in the province and 17
	emergency (26 January 2021)	recommendations for the local and provincial leadership
	• The effectiveness of a virtual education program for	to be acted on in the short (three months or less) and the
	healthcare providers of long-term care residents in	long term (more than three months)
	Ontario during the pandemic was evaluated in a	0
	study which found that <u>the ECHO Care of the</u>	Nova Scotia's Department of Health and Wellness and
	Elderly-Long-Term Care: COVID-19 program	Nova Scotia Health Authority published a <u>report on long-</u>
	increased confidence amongst participants in	term care Infection Prevention and Control (IPAC) teams
	providing clinical care, promoting integration of	during the first wave of the COVID-19 pandemic
	knowledge in clinical care, and promoting	• Recommendations and actions should be formalized to
	knowledge dissemination of best practices	continue through subsequent waves of the pandemic
	• The study concluded that <u>the program can be an</u> <u>innovative tool to educate providers in long-</u>	
	term care homes and provide time-sensitive and	
	rapidly evolving information (published	
	February 2021)	
	• One study reported on the impact of an acute-care	
	hospital's Infection Prevention and Control SWAT	
	team (IPAC-SWAT) that was mobilized to several	
	long-term care and retirement homes in Ontario to	
	assess the homes' IPAC preparedness and manage	
	outbreaks	

	• The study found that <u>after the IPAC-SWAT</u>	
	team implemented intervention strategies in the	
	LTC and retirement homes, the majority of the	
	staff in the homes found that their ability to	
	manage an outbreak improved, and they	
	believed that routine huddles and discussions	
	helped improve the site's ability to manage	
	initial assessment using staff interviews,	
	education and training on COVID-19	
	transmission and IPAC practices, routine follow-	
	up visits and outbreak meetings, post-outbreak	
	management to assist with reopening, visitor	
	policies, contingency planning, second wave	
	readiness assessments, and the implementation	
	of IPAC champions to promote sustainability of	
	best IPAC practices	
	• The interventions proved to be effective given	
	that after 80 days following cessation of	
	outbreaks, no new COVID-19 transmission	
	occurred in the settings with previous cases	
	(published 22 February 2021)	
Economic and social	Lessons for the federal level	Lessons for the federal level
responses	An <u>opinion piece from the Canadian Centre for</u>	• Statistics Canada published a <u>report</u> highlighting that the
	Policy Alternatives notes that the Canada	financial resilience of Canadians has improved as the
	Emergency Response Benefit and expansions to	pandemic has progressed, in part due to financial supports
	unemployment insurance programs have been	from the Canadian government and financial institutions
	valuable in supporting women economically (last	as well as consumer behaviour changes
	updated March 2021)	• A report by the Auditor General of Canada on the Canada
	• A joint opinion piece from the Canadian Centre for	Emergency Response Benefit (CERB) found that, despite
	Policy Alternatives, Canadian Women's Foundation,	the drastically shortened time period available for the
	and Ontario Nonprofit Network as well as another	design process (a few hours or overnight compared to
	opinion piece from the Canadian Centre for Policy	other processes that are conducted over many months),
	<u>Alternatives</u> highlight the negative impact the	the program design process was conducted robustly with
	pandemic and associated responses (such as the	full considerations of its cost and the need for flexibility to
	closure of childcare centres) have had on the	best serve Canadian residents facing financial impacts
	participation of women in the economy	from the pandemic
	paracipation of women in the economy	from the pundenne

 The joint opinion piece proposes advancing women's participation and inclusion in the economy by mandating intersectional gender-based 'plus' analyses in policy and program development (last updated September 2020) The opinion piece from the Canadian Centre for Policy Alternatives points to a number of areas where additional supports are needed, including affordable childcare (particularly for essential workers) and income supports for those who do not qualify for CERB (last updated March 2021) An opinion piece from the Canadian Centre for 	 The report highlighted several pre-existing controls vital to the successful roll-out of the CERB, including automated pre-payment in existing systems, Social Insurance Number confirmation, confirmation that applicant was not deceased, confirmation of applicant age, and confirmation that applicant was not in a correctional facility The report recommended that Employment and Social Development Canada and the Canada Revenue Agency (CRA) finalize and implement their plans for post-payment verification of the CERB The Auditor General also conducted an <u>audit of the</u>
 (such as those found in Quebec) have been associated with a lesser degree of withdrawal of children from childcare during the pandemic when compared to other provinces with higher fees This opinion piece points to the importance of considering the childcare sector as an essential service during the economic recovery from the pandemic, and considering ways to reduce the burden of childcare on parents 	 found that although the CRA delivered wage subsidy payments quickly, it lacked tighter controls and sub-annual earnings to efficiently assess applications The report made several recommendations including that a full economic evaluation of the CEWS program be conducted and published, tax compliance efforts for GST/HST be strengthened, automated validations using unique identifiers be used, and targeted audits of the CEWS be conducted using business intelligence information as it becomes available An economic analysis of the impact of travel restrictions during the pandemic concluded that the longer travel restrictions remain in place, the greater their impact on the economy, and that lifting travel restrictions was necessary for the recovery of the tourism industry and the broader economy Lessons for the provincial level The Office of the Auditor General of Manitoba is in the process of conducting an audit of educational approaches for K-12 education during COVID-19

Appendix 4: Key findings from <u>new</u> evidence documents related to what went well and what could have gone better in the COVID-19 response, as well as what will need to go well in the future given available foresight work

Type of document	Relevance to question	Key findings	Recency or status
Rapid reviews	 Public health measures Health-system arrangements 	 In this review, the impact of surgical training disruptions during the COVID-19 pandemic and the mitigation efforts carried out in Canada, the U.K., the U.S., Australia, and New Zealand were studied Findings highlighted that international surgical training bodies were agile and resident centred in their collective response Non-urgent elective surgeries were completely stopped in the U.K. for a minimum of three months while health officials in the U.S. and Canada recommended a reduction of elective surgical activity on a regional level based on local healthcare need; Australia and New Zealand were the first countries to reopen surgical services in May 2020 Recruitment and selection for 2020 residency went ahead in all countries but the recruitment system in the U.K. was greatly impacted by the pandemic and in turn had to rely solely on self-assessment scores submitted with applications In all countries, flexibility was given to board examination participants who had their examinations cancelled or postponed because of pandemic restrictions to reschedule examination dates or meet the requirements for their training programs in an alternative way Canada's surgical residency training is notably unique in that it has a larger portfolio of competency-based rather than time-based residency programmes, which were more negatively impacted by evolving pandemic restrictions Videoconferencing was used in Canada to conduct interviews remotely for training programs, and this convenience may be useful for recruitment and teaching after the pandemic Source (AMSTAR rating 2/9) 	Literature last searched 9 June 2020

Protocols for reviews that are underway	Public health measuresClinical management	• Learning from public health and hospital resilience to the SARS-CoV-2 pandemic: protocol for a multiple case study (Brazil, Canada, China, France, Japan, and Mali) Source	Published 6 May 2021
Single studies	• Economic and social	 An Ontario-based modelling study predicted elementary school learning shortfalls due to COVID-19 In the best-case scenario, students were not impacted by COVID-19 and had comparable learning levels prior to COVID-19 In the worst-case scenario, students had a three-month learning shortfall compared to a regular school year The authors concluded with two recommendations, including: Offer high-quality and targeted supplementary interventions (e.g., six-week programs) in the summer and continue into 2022 and beyond in order to reduce learning losses Offer real-time interactions between students and teachers within online instruction models during the COVID-19 pandemic and future emergency responses 	Published 26 May 2021
	• Clinical management	 A population-based retrospective observational study conducted in Ontario found that the COVID-19 pandemic has had substantial impact on cervical cancer screening and related services The authors highlighted key considerations as the pandemic continues such as: facility- or regional-level strategies to optimize resources to manage colposcopy backlog, implementation of a centralized referral intake and waitlists, monitoring of local data during recovery phase, and resumption of patient reminders 	Published 13 May 2021
	Cross-cuttingPublic-health measures	 Study summarizes and explains the divergent responses across Canadian provinces and territories Key findings from the study include: No formally coordinated approach to pandemic across provinces and territories led to varied recovery and reopening plans with varied level of success 	Published March 2021

		 The use of vague and indefinite language and wording over the course of the pandemic has resulted in significant confusion for residents, especially when it comes to policy communication Across all provinces, mobility data revealed that an alert fatigue has taken place where there is an inability to comprehend or comply with constantly changing rules <u>Source</u> 	
	• Public-health responses	• During May and June 2020, COVID-19 and associated public health measures appear to have had a similar impact on the mental health of Canadian older veterans compared to the general population <u>Source</u>	Published 27 April 2021
	• Public-health responses	 Using a load estimation approach, a study in Saskatchewan found that non-critical business and school closures due to COVID-19 lowered energy consumption between 18 March to mid-July 2020 and since the 4th phase of re-opening in mid-July 2020, the load consumption pattern has begun to more closely resemble the expected pattern if COVID-19 had not occurred COVID-19 containment measures and reopening phases resulted in a reduction of C0₂ emissions caused by coal-fired generation (>25%) and gas-fired generation (6%) between 18 March and 1 September 2020 compared to the same date range in 2019, and was associated with an increase in the proportion of wind and hydro generation from 15% to 32% 	Published 25 November 2020
Opinion pieces	• Public-health responses	 By December 2020, permanent resident admissions and temporary admissions in Canada fell by 56% and 33%, respectively, because of COVID-19 and related restrictions The impact of COVID-19 on permanent resident admissions has been greater in some regions such as Atlantic Canada while locations where immigrants have traditionally settled have been proportionally less affected <u>Source</u> 	Published 20 May 2021

Appendix 5: Key findings from highly relevant evidence documents identified in previous updates related to what went well and what could have gone better in the COVID-19 response, as well as what will need to go well in the future given available foresight work

Type of document	Relevance to question	Key findings	Recency or status
Protocols for reviews that are underway	 Type of response Public-health measures 	The future of public-health policymaking after COVID-19: a qualitative systematic review of lessons from Health in All Policies Source	Anticipated completion date 20 December 2021
Titles/questions for systematic and rapid reviews that are being planned	None identified		
Single studies	 Type of response Health-system arrangements Level of government Provincial Types of policy instruments Economic Voluntary 	 Primary study comparing approaches in long-term care homes between Ontario and British Columbia found that prior to the pandemic, residents in British Columbia received more daily hours of direct care, which when combined with lower staffing levels was associated with COVID-19 infections in long-term care homes Prior to the pandemic, links between long-term care and public health were stronger in British Columbia than in Ontario During the first wave of the pandemic, British Columbia was faster than Ontario in responding to COVID-19 with actions to address public-health support, staffing and infection prevention and control including quickly announcing a single-site working policy, promoting full-time work and standardized wages for all staff, sending specialized teams including infection-control practitioners and public-health staff into homes with outbreaks regardless of governance or facility ownership, setting a single case as the outbreak threshold, implementing testing and screening of asymptomatic residents, and requiring universal masking from the outset. 	Published 23 November 2020

 Type of response Public-health measures Level of government Federal Provincial Municipal Types of policy instruments Legal and regulatory Voluntary Information and education 	 Primary study comparing the non-pharmaceutical interventions used by Canadian governments at different levels finding 63 different types of non-pharmaceutical interventions The study found that British Columbia was first to enact the most rigorous measures before the WHO pandemic declaration, while all provinces implemented measures following the declaration Two regional variations in time to implementation were found for declaration of the state of emergency and school closures, with Quebec being first to enact a state of emergency and Nova Scotia the last, while Ontario was the first to close schools and Manitoba the last Though interventions were implemented at various times across a three-week period, the order in which they were put in place was similar to international counterparts with travel restrictions being among the first No evaluation was done as part of the study on the association between the interventions and their effects on reducing the spread of COVID-19 	Published 31 August 2020
 Types of response Cross-cutting Level of government Federal Provincial 	 Overview and comparative analysis of policy responses in France, Belgium and Canada during the early stages of the COVID-19 pandemic The review found in general that the responses were largely dictated by existing health-system capacity, and that increasing levels of federalism, of which Canada has the greatest among comparators, was associated with more fragmented responses overall, but has allowed certain provinces to harness strong governance capacity while others have struggled The decentralized decision-making may have also prevented widespread resource sharing between provinces including related to data sharing with the federal government 	Published 9 December 2020

 Type of response Health-system arrangements Level of government Provincial Types of policy instruments Voluntary 	 Examining the effects of changes to the health system on the operation of cancer treatment centres during the first wave of the pandemic The study noted that one of the measures to be put in place was to limit screening programs which in combination with a reduction in access to primary-healthcare providers has also led to a reduction in cancer diagnoses and significant backlog The study estimated a 20% reduction in screening compared to previous years While the use of telemedicine was employed in some of these examples it had significant limitations and was infrequently used for new appointments The implementation of outreach programs to return proactive cancer screening may be necessary in the coming months and years to catch up with service disruptions and attempt to reduce further delays in diagnoses and treatment 	Published 28 February 2021
 Type of response Public-health measures Screening Isolation of suspected or confirmed cases Health-system arrangements Changing long-term care procedures Level of government Provincial/territorial Types of policy instruments Voluntary 	 A cross-sectional survey assessing the preparedness of the long-term care sector to respond to the COVID-19 pandemic in Ontario, Canada Communication and implementation of recommendations in the Ontario LTC sector was evident, but some concerns were raised regarding feasibility of implementing public-health recommendations Additionally, LTC clinician respondents stressed the need for better engagement with LTC leaders to coordinate pandemic responses 	Published 22 October 2020
 Type of response Cross-cutting Level of government Federal Types of policy instruments Information and education 	• According to a study conducted in March 2020 assessing public attitudes towards governmental actions to combat the COVID-19 pandemic in G7 countries, Canadians had a relatively high approval rate of government response, communication and trust towards future COVID-19-related decisions	Published 25 November 2020

• Pu • Level • Pr • Types	of response ublic-health measures of government rovincial/territorial s of policy instruments formation and education	 65.6% of Canadians strongly or somewhat approved of government response (ranked 2nd) 81.3% of Canadians evaluated government communication as very or fairly good (ranked 1st) 77.2% of Canadians reported their trust in future government decisions as trusting a lot or trusting a little (ranked 1st) Source A qualitative study of news releases from Canadian provincial government websites during the initial phases of the COVID-19 outbreak between 21 January 2020 and 31 March 2020 found that messaging across jurisdictions was generally consistent Most news releases were prescriptive and conveyed recommendations and mandates to slow transmission, and the tone generally shifted from reassurance early on to an emphasis on social-distancing measures and finally to a concern with public responsibility to slow transmission The variations in tone and timing of the chief medical officers of health aligned with different and changing epidemiological realities across contexts 	Published 4 September 2020
o Pu	of response iblic-health measures of government ederal	 The aim of this study was to predict the trend of the COVID- 19 outbreak in Canada in March 2020 by using comparative modelling, using Italy as the comparator country Results of the modelling projected that in the absence of prompt public-health interventions, approximately 15,000 cases could be expected in Canada by the end of March 2020 The results of the study suggests that Canada can capitalize on Italy's prior experience where the closure of all non- essential activities led to a significant reduction in the country's epidemic growth rate in early March The study concludes that it is imperative to take immediate action to reduce the epidemic growth rate by implementing and enforcing a comprehensive package of public-health interventions given that the mitigation effect of interventions can be delayed for up to two weeks 	Published 31 March 2020

	Source	
 Type of response Health-system arrangements Level of government Municipal Types of policy instruments Voluntary 	 The descriptive study reported on an acute-care hospital's response to a nursing home experiencing a COVID-19 outbreak in Toronto, Ontario Partnerships and collaboration with the hospital and nursing home were valuable and can effectively manage a large COVID-19 outbreak Key elements included a phased approach that involved building trust, a robust clinical and operations team with input from geriatric medicine, palliative care, IPAC, psychiatry, nursing, and senior hospital leadership, and a non-hierarchical structure to working with the nursing home staff Source 	Published May 2020
 Type of response Public-health measures Types of policy instruments Economic 	 The Conference Board of Canada (a not-for-profit think tank) released an issue brief that examined the economic implications of social distancing The assumptions in the analysis included social-distancing measures and travel bans until the end of August 2020 The modelling analysis reported that the real GDP could contract by 1.1% in 2020, with 330,000 jobs lost and unemployment rate of 7.7% A rebound in household spending was projected to occur in the fourth quarter and into 2021, and potential real GDP growth of 3.3% 	Published March 2020
 Type of response Health-system arrangements Level of government Provincial / territorial Types of policy instruments Legal and regulatory 	 This observational study assessed how mobility of staff between nursing homes in Ontario, Canada changed after the Government of Ontario enacted an emergency order that prevented staff from working in more than one nursing home Location data from mobile devices was used to approximate connectivity between 623 nursing homes during the seven weeks before and after the implementation of the emergency order Mobility between nursing homes dropped sharply after implementation of an emergency order restricting staff to working in a single nursing home, in which the number of 	Published 26 January 2021

• Type of response	 nursing homes with any connection to another home fell by 70.3% Staff mobility between nursing homes appears to be an important vector for importation of COVID-19 into and spread between homes, and should be a focus of efforts during a state of emergency Source In April 2020, a hospital-based Infection Prevention and Pub. 	olished 22
 Type of response Public-health O Health-system Level of government O Provincial / Types of policy in O Legal and regional distribution 	In Apple 2020, a hopping back infection revention and Control (IPAC) SWAT team was developed and mobilized to long-term care facilities and retirement homes in Ontario to assess them for IPAC preparedness and actively manage COVID-19 outbreaksFebrInstruments gulatoryIPAC-SWAT assessed seven long-term care facilities and 10 retirement homes, and active-outbreak management wasFebr	pruary 2021

	 Anonymous surveys were sent to all partnered long-term care facilities and retirement homes for IPAC-SWAT feedback Among 31 of 37 responses, 93.5% (29/31) felt IPAC-SWAT improved their ability to manage their COVID-19 outbreak 83.9% (26/31) believed routine huddles and discussions improved the site's ability to manage All responders (100%; 31/31) felt the support provided from a hospital-based IPAC team had a positive impact on their long-term care facility and retirement home 	
 Type of response Public-health measures Level of government Provincial/territorial Municipal Types of policy instruments Voluntary 	 This study explored best practices and areas of improvement in the outbreak management of COVID-19 in long-term care facilities through semi-structured interviews with front-line workers in a regional health authority in British Columbia Eight areas of best practices were identified: 1) early identification and action on new COVID-19 cases; 2) suite of public-health interventions; 3) additional supports and assistance for infection and prevention control; 4) staff training and education; 5) personal protective equipment use and supply; 6) workplace culture, organizational leadership and management; 7) communication and coordination; and 8) staffing levels Specific best practices included: High index suspicion/low threshold for testing in addition to early identification and rapid action Implementing a range of public-health measures including visitor restrictions, resident cohorting, mass testing, and single-site restriction for long-term care staff External assistance through Infection Prevention and control support teams who conducted staff training and rapid on-site assessments Ensuring adequate access and a secure supply of personal protective equipment through centralization by the health authority 	Published 15 April 2021

	 A coordinated communication response between teams involved in outbreak management Areas for improvement included reducing delays in identifying cases of COVID-19 and implementing control measures, addressing the harms associated with socially isolating residents as a result of public-health measures, local staffing shortages, changing guidelines, and a lack of direct communication between teams Recommendations made by authors included maintaining a high level of vigilance for COVID-19 transmission at long-term care facilities, providing ongoing infection-prevention and control training and education for staff, and developing formal mechanisms for communication and coordination between team 	
 Type of response Public-health measures Health-systems arrangements Level of government Provincial/territorial Types of policy instruments Voluntary Information and education 	 This study evaluated the effectiveness of a virtual education program in delivering just-in-time learning and best practices to support long-term care teams and residents during the pandemic The ECHO Care of the Elderly-Long-Term Care (COE-LTC): COVID-19 program provided participants with a weekly one-hour session for 12 weeks with a curriculum based on a needs assessment survey of healthcare providers in Ontario long-term care homes The program was found to increase confidence in providing clinical care including improving the comfort level of participants working with older adults who are at risk, confirmed, or suspected of having COVID-19, to promote integration of knowledge into clinical care, and to promote knowledge dissemination of best practices among practitioners The authors recommended that the ECHO Care of the Elderly-Long-Term Care (COE-LTC): COVID-19 program can be used as an innovative tool for delivering rapidly evolving and time-sensitive information and best practices directly to healthcare providers in long-term care 	Published February 2021

		Source	
	 Type of response Public-health measures Health-system arrangements Level of government Federal Types of policy instruments Legal and regulatory 	 The Conference Board of Canada (a not-for-profit think tank) projected that Canada's economy will expand by 5.8% in 2021 and 4.0% in 2022 due to vaccine roll-out and gradual reopening of the economy Savings rate among households surged from 1.4% prior to the pandemic to 14.8% Unemployment rate was 8.2% in February 2021 and 80% of jobs lost during last year's severe recession have since been recovered The Bank of Canada will keep interest rate hikes on hold until 2023 	Published 30 March 2021
Opinion pieces	 Types of response Cross-cutting Level of government Federal Provincial Types of policy instruments Economic Voluntary Information and education Equity considerations 	 Overview of public-health measures taken during the pandemic and lessons learned about what went well and what could have gone better during the response In general, the piece identified the following four points as going well: The early response managed to avoid overwhelming the acute-healthcare system The availability of PPE appeared adequate with the federal government intervening to address early shortages and developing patches to the supply chain to meet demand Residents and businesses largely respected the direction provided by public health Income supports have helped to address the needs of the employed The piece identified the following as areas where the response could have done better: Inconsistent management approaches between provinces and territories Lack of timely release of national guidelines for managing cases in long-term care homes Lack of national data collection standards resulting in inconsistencies in how surveillance data is reported, 	Published 16 February 2021

	 particularly as they relate to individual groups such as income level and race-based data Backlogs in testing and rigid testing criteria implemented across provinces created challenges understanding the epidemiological landscape across the country Lack of human resources to undertake contact tracing effectively and complexities in the responsibility for contact tracing among First Nations living off-reserve limited further containment of the virus Limited provincial efforts to provide supports to those experiencing housing security and homelessness, including those who may have difficulty adhering to public-health measures 	
 Type of response Economic and social responses Level of government Federal Types of policy instruments Economic 	 Report outlines the effect of COVID-19 pandemic and its associated responses on women and their participation in the labour force Women-majority sectors were hardest hit during the pandemic with significant employment losses, and have had weaker recoveries including in personal services, information culture and recreation, and public administration There has also been a trend of women with children exiting the workforce entirely or reducing their hours to part-time to provide care during the pandemic while other childcare options were limited or perceived as risky Policy recommendations from this report include mandating intersectional gender-based plus analyses in policy and program development to support the recovery from the pandemic Other areas for focused action but that are not based in particular data include: building robust childcare supports, continuing to provide work accommodations for women with disabilities, ensuring supports are in place for those at the margins or left out of the labour market, modernizing income security to protect women in the labour market and reduce income inequality, and expanding gendered workforce-development programs particularly in male-dominated areas 	Published December 2020

		Source	
•	Type of response o Public-health measures Level of government o Federal Types of policy instruments o Voluntary Equity considerations	 Report examines the challenges of applying public-health guidelines to First Nations communities Frequent handwashing was provided as a public-health recommendation, however many First Nations homes in rural communities run out of water frequently or have water concerns related to the quality of water contained in the cistern or water barrels Overcrowded housing is also a common issue on reserves with 37% of First Nations living on reserve in unsuitable housing, which makes following physical-distancing guidelines nearly impossible First Nations leaders have declared states of emergencies for their communities and erecting barriers to enter, which are credited with keeping the virus out of these northern communities Guidelines and recommendations should be informed by the experience of First Nations and Northern communities to consider ways that adjustments may need to be made to support their implementation Funding from the federal government for Indigenous communities to address COVID-19 was not at the scale or proportionality available to other communities given the challenges experienced 	Published May 2020
•	 Types of responses Health-system arrangements Level of government Provincial Types of policy instruments Legal and regulatory Economic 	 The report examines the conditions in long-term care homes across Canada that were in place prior to the pandemic and that were central to the crisis experienced, including: Positioning of long-term care and other residential care (e.g., nursing homes) outside of what is included in the Canada Health Act Challenges with the labour force in the long-term care sector The use of punitive regulations which tend to focus on physical structures and workers rather than working conditions, ownership or employer practices 	Published April 2020

 Type of response Economic and social response Level of government Federal Provincial Types of policy instruments Economic 	 Deficiencies in the physical structures of long-term care homes included surcharges for private rooms, old buildings with poor ventilation, and limited space to accommodate physical distancing This points to the need to re-examine health-system arrangements in light of COVID-19 Source National survey of childcare centres and licensed family childcare providers found a substantial decline in childcare enrolment across Canada between February and November 2020 The survey found this was being driven by a mix of factors, including difficulty retaining staff as well as a constellation of parental factors such as lost jobs, concerns over the risk of contracting COVID-19, and parents working from home or withdrawing children due to income concerns The association between high fees and withdrawal from daycare is demonstrated when comparing Quebec, which has	Published March 2021
 Type of response Economic and social responses Level of government Federal Types of policy instruments 	 low-fee centres, to the remaining provinces which have seen a significantly greater reduction in enrolments These findings point to the importance of considering the childcare sector as an essential service during the national recovery and considering ways to reduce the burden of childcare on parents in select cities across the country Source The report examines the effects of the COVID-19 pandemic on women's participation in the economy and evaluates the effects of the policy approaches put in place The report found a significant drop in women's labourmarket participation in addition to climbing demands of 	Published March 2021
 Economic Equity considerations 	 unpaid caregiving which has a further impact on women's paid work Income security programs including CERB have provided support for women, as well as the change in eligibility rules for employment insurance that was introduced in October 	

	• The report points to a number of areas where additional supports are needed, including the lack of affordable childcare, particularly for essential workers, as well as income supports for those who do not qualify for CERB <u>Source</u>	
 Type of response Economic and social Types of policy instruments Economic 	 The Conference Board of Canada (a not-for-profit think tank) projected that Canada's economy will expand by 5.8% in 2021 and 4.0% in 2022 due to vaccine roll-out and gradual reopening of the economy Savings rate among households surged from 1.4% prior to the pandemic to 14.8% Unemployment rate was 8.2% in February 2021 and 80% of jobs lost during last year's severe recession have since been recovered The Bank of Canada will keep interest rate hikes on hold until 2023 	Published 30 March 2021

territorymanagementarrangementPan-Canadian• Signals of what would become COVID-19 were identified early by the Global Public Health Intelligence Network (GPHIN) and reported to leaders in the Public Health Agency of Canada (PHAC), which prompted them to act early in notifying public- health officials across Canada of a potential public-health threat by 2 January 2020• Statistics Canada reported that implementation of the physical-distancing guidelines during the advantage of their environment to exercise, spend leisure time, and make social connections• CIHI's analysis of pandemic data fr first wave of the COVID-19 pand (March 1 to Aug 2020) concluded compared to the period in 2019, I residents across C a potential public-health threat by 2 January 2020• Statistics Canada reported that implementation of the physical-distancing guidelines during the pandemic led to increased advantage of their environment to exercise, spend leisure time, and make social connections• CIHI's analysis of pandemic data fr first wave of the COVID-19 pand (March 1 to Aug 2020) concluded compared to the received fewer pl and family visits, residents were transferred to ho	• A <u>report by Statistics</u> <u>com the</u> <u>canada</u> on the well- being of Canadians in year one of the COVID-19 pandemic highlighted that the same financial resilience of
COVID-19 were identified early by the Global Public Health Intelligence Network (GPHIN) and reported to leaders in the Public Health Agency of Canada (PHAC), which prompted them to act early in notifying public- health officials across Canada of a potential public-health threat by 2 January 2020that implementation of the physical-distancing guidelines during the pandemic led to increased outdoor activity amongst canadians as they took environment to exercise, spend leisure time, and make social connectionspandemic data fr first wave of the COVID-19 pand (March 1 to Aug 2020) concluded 	rom theCanada on the well- being of Canadians in year one of the COVID-19 pandemic l thatl thathighlighted that the financial resilience of
improve on the identification of signals and issuance of alerts in the future, an evaluation of the extent to which GPHIN can or should be providing early signals to international partners, and how risk assessments can be embedded into the alerting process, is needed• Creative solutions that gave more Canadians outdoors included the shutdown of roads in favour of pedestrian and cyclist use and the opening of more public washroomstransferred to ho for care, hospital residents had to back to their hom and there was a significant drop i admissions to LT mores• The Auditor General of Canada reported that Canada's pandemic preparedness was less than optimal because of o Long-standing shortcomings in comprehensive health surveillance information• The Statistics Canada report alt to fue the LTC survey on the role of parks that found that 82% of respondents said that during the pandemic, parks have become more important to their mental health• In its evaluation of the important to their mental health• In its evaluation of the important con fthe important con fthe important con fthe important to their mental health• In its evaluation of the important con fthe important c	obysician , fewerpandemic has progressed, in part due to the significant financial supports of the Canadian government and financial institutions as well as changes in consumer behavioursin new IC• After conducting an economic analysis of the impact of travel restrictions during the Canadian economy, Statistics Canada concluded that the longer it takes for travel restrictions to be lift levels

Appendix 6: Lessons learned from the COVID-19 response in Canadian provinces and territories

· · · · · · · · · · · · · · · · · · ·				
	• The need for updates to	<u>Canada</u> , the Canadian	o Improving home	tourism industry in
	PHAC's pandemic response	Institute for Health	inspection and	particular
	plans and guidance	Information (CIHI) found	enforcement	• Estimates of the
	• The auditor general	that a number of major	processes	analysis suggest that
	recommended that PHAC's	investigative reports at the	o Improving	the impact could
	information technology	provincial level on the LTC	accountability	vary based on when
	infrastructure should be	sector recommended that	amongst staff within	travel restrictions
	improved on a specified	the risk of future infections,	each home and	are lifted and the
	timeline, and that a plan should	outbreaks and deaths can	system-wide	type of recovery
	be developed to address the	be reduced by:	o Increasing	that follows
	shortcomings in its health	 Implementing strong 	communication and	• The 2021 <u>report by</u>
	surveillance activities and to	infection-control	coordination across	the Auditor General of
	promote timely risk assessments	practices that are	all parts of the system	Canada on the Canada
	of pandemic threats	mandatory	• A <u>survey conducted by</u>	Emergency Response
	The Chief Public Health Officer	• Providing access to	Statistics Canada	Benefit (CERB) found
	of Canada proposed a Health	personal protective	involving Canadians	that the planning and
	Equity Approach to COVID-19	equipment (PPE) and	working in a healthcare	design process for the
	Framework in her <u>2020 Report</u>	training for staff	setting found that 60%	benefits program was
	on the state of public health in	o Implementing a response	of respondents who	conducted robustly
	<u>Canada</u> to explore opportunities	plan for outbreaks that	required respirators	with full consideration
	for changes to the public-health	includes rapid testing	(e.g., N95 masks) on	of its cost and the
	system that suggests:	and contact-tracing	their jobs said that they	need for flexibility in
	• Actions to ensure equitable	strategies	were always available	getting the benefits to
	access to quality jobs (i.e.,	• Reducing crowding and	when needed during the	Canadian residents
	secure jobs with benefits and	occupancy in homes, and	second wave	who faced impacts
	paid sick days) in Canada	adapting spaces to isolate	81% of these participants	from, the pandemic
	• Policy options that address	sick patients and prevent	also said that they received	• The turnaround
	childcare constraints for	the spread of infection	formal infection-	time for the design
	working parents	• A <u>CIHI report</u> comparing	prevention and control	process was
	• The provision of safe and	Canada's pandemic	training for their job, and	shortened
	secure housing for all	experience in the LTC	57% said that their	tremendously to a
	Canadians, particularly the	sector with the experiences	employers supported them	few hours or
	homeless, those with	of other countries found	when they were sick and	overnight when,
	disabilities, those susceptible	that countries that	needed to stay home	under normal
	to violence in the home, and	implemented mandatory		circumstances, the
	the elderly	prevention measures		process can occur
	and enderry	specific to the long-term		over many months
I I			1	, · · -

• Actions that appart areas to	care sector, in combination	o Koy aross that was
• Actions that support access to virtual healthcare as well as	-	 Key areas that were considered included
	with stay-at-home orders	
mental health supports	and closures of public	the benefit's
• Assistance for students as	places, had fewer COVID-	structure and its
they transition back to in-	19 infections and deaths in	impact on recipient
person school and rebuild	LTC than countries that did	groups, sectors of
their social networks	not	the economy, and
• Policies that focus on building	• These mandatory	the labour supply
sustainable food systems that	prevention measures	 Employment and
involve community and local	included immediate	Social Development
food production	infection control	Canada and the
	measures (e.g., broad	Department of
	LTC testing and staff	Finance Canada also
	training, isolation wards)	ensured that gaps in
	and additional support	the initial design of the
	for staff (e.g., specialized	program, such as
	staffing teams, personal	support for those who
	protective equipment)	were not working
	• According to <u>Statistics</u>	because of the
	Canada's report on school	pandemic, were
	closures and children's	addressed and analyses
	online preparedness during	were performed on an
	the pandemic, the learning	ongoing basis to
	activities of children in	ensure the flexibility of
	Canada varied based on the	the program as the
	income level of the	pandemic evolved
	households they live in and	 According to the
	the level of engagement of	auditor general's
	their parents in their	report, pre-existing
	learning activities	controls that were vital
	• It was found that	to the roll-out of the
	children in lower-income	CERB included:
	households tend to have	
	less access to internet-	• Automated pre-
	enabled devices, such as	payment controls in
	personal computers, and	existing technology
	their parents tend to be	systems
	then parents tend to be	

less involved in their	 Confirmation of
learning activities	Social Insurance
because of competing	Number
work obligations, which	• Confirmation that
may ultimately lead to	applicant was not
poorer academic	deceased
performance	• Confirmation of an
• After evaluating Canada's	applicant's age
border-control measures	• Confirmation that
during the pandemic, the	an applicant was
auditor general found that	not in a correctional
the Canada Border Service	facility
Agency (CBSA) acted	• The auditor general's
quickly on the emergency	report recommends
orders put in place to	that Employment and
prohibit entry of foreign	Social Development
nationals into Canada, and	Canada and the
that PHAC did not always	Canada Revenue
meet its target to verify if	Agency (CRA) finalize
arriving travellers to Canada	and implement their
completed their mandatory	plans for the CERB's
14-day quarantine	post-payment
The auditor general	verification work
indicated that addressing	The auditor general
gaps in border-control	 The auditor general also conducted an
	audit of the Canada
measures would require a review of decisions made	
	Emergency Wage Subsidy (CEWS)
by border-service officers	
when applying exemptions	program and found
for entry of essential	that although the CRA
workers, and improving the	delivered the wage
systems and processes for	subsidy payments
verifying compliance with	quickly, it lacked
the mandatory quarantine	tighter controls as well
order, including the	as sub-annual and up-
collection of traveller	to-date earnings to
contact information and	efficiently assess
--	-------------------------
follow-up	applications
• In her <u>report on the state of</u>	• The report
public health in Canada, the	recommended that:
Chief Medical Officer of	• A full economic
Health highlighted that	evaluation of the
between April and Augusts	CEWS program be
2020, public health	completed and
measures undertaken by	published
Canadian provinces and	• Tax compliance
territories combined with	efforts for
efforts to increase	GST/HST be
healthcare capacity	strengthened
protected Canada's	o Automated
healthcare system from	validations with a
being overwhelmed	unique identifier be
• The Auditor General of	used in all programs
Canada published a report	of the CRA
on whether the Public	• Targeted audits of
Health Agency of Canada	the CEWS be
(PHAC) and Health Canada	conducted using
met the needs of provincial	business intelligence
and territorial governments	information as soon
for selected PPE and	as it is available
medical devices	• Structural changes to
• The <u>report</u> determined that	both essential and
PHAC, Health Canada, and	non-essential service
Public Services and	industries, in the form
Procurement Canada	of industry shares of
helped to meet the needs of	hours worked and real
provincial and territorial	GDP, led to strong
governments for PPE and	labour productivity
medical devices during the	growth overall in the
pandemic	Canadian business
Despite unaddressed long-	sector during the
standing issues with the	COVID-19 pandemic,
National Emergency	according to a
	U U

	Statistics Canadareport• In the first half of2020, adjustmentsin hours worked inresponse tolockdowns andreopening policiesled to an increasein productivity inmost industrieswhile in thesecond half of2020, labourproductivitydecreased in allindustries whenwork hours wereadjusted• Industries with thebiggest gains inproductivity at the
fre ar	in productivity in most industries while in the second half of 2020, labour productivity decreased in all industries when work hours were adjusted o Industries with the

		1 1]
		change, according to
		an <u>impact report on</u>
		<u>Canada's productivity</u>
		growth by Statistics
		Canada, given the
		increase in
		productivity from
		telework seen in some
		industries and the cost
		savings from less
		demand for office
		space and equipment
		 Additional
		research is needed
		to evaluate the
		overall impact of
		working from
		home on business
		productivity
		• A <u>Statistics Canada</u>
		report on the impact
		of the COVID-19
		pandemic on the rate
		of youth (ages 15 to
		29) not in
		employment,
		education or training
		(NEET) in Canada
		indicated that the
		NEET significantly
		decreased by the
		beginning of the
		2020/21 school year in
		comparison to that of
		April 2020, although
		the NEET rate did not

		1.1.1
		completely return to
		pre-pandemic levels
		o More young
		women than men
		went to post-
		secondary schools
		in September-
		October 2020
		among women
		• Between fall 2019
		and 2020, the
		NEET gap
		between
		immigrant and
		non-immigrant
		women widened
		due to increased
		likelihood of non-
		immigrant women
		enrolling in post-
		secondary
		institutions
		• These divergent
		trends can
		potentially have
		long-term
		implications on
		pattern for future
		economic growth
		<u>Statistics Canada</u>
		<u>reported</u> that of all
		Canadian workers who
		earned at least \$5000
		in 2019, 35.2%
		received payments
		from the Canada
		Emergency Response
		Emergency response

			 Benefit (CERB) in 2020, with women receiving payments more often than men Workers employed in industries that were severely affected by lockdowns were most likely to receive CERB payments Other groups that were more likely to receive CERB payments were workers in visible minority groups, Indigenous workers, refugees, and low-wage workers, most of whom were at a higher risk of being exposed to COVID-19 at work or at
			work or at becoming unemployed
British Columbia	• The Government of British Columbia released a <u>Restart</u> <u>Plan</u> on 6 May 2020, two parts of which included evaluations based on modelling data:		

	o Based on modelling
	research assessing the
	impact of social-
	distancing policies,
	British Columbians
	reduced their social
	interactions and contact
	with others to 30% of
	normal levels
	Using the same
	mathematical modelling, a
	return to pre-COVID-19
	social interactions and
	physical distancing would
	result in a massive spike in
	cases, while 80% and 60%
	would result in significant
	and steady increases in
	cases, respectively
	According to B.C.'s
	Economic Recovery Plan,
	which focused on the
	effects of public-health
	measures and was released
	17 September 2020, the
	unemployment rate in B.C.
	increased from 5% in
	February 2020 to 13.4% in
	May 2020 and women and
	youth were especially
	affected
	• By August 2020, 62% of
	the total jobs lost had been
	restored as businesses were
	allowed to begin re-opening
Alberta	anowed to begin re-opening
Alberta	

Saskatchewan		• Approximately 17% of Saskatchewan residents report in a recent government survey being confused by public-health orders related to COVID- 19 restrictions		• A provincial <u>evaluation</u> of the effects of the <u>COVID-19 pandemic</u> on mental health in <u>Saskatchewan</u> found that the uptake of online/phone supports has not materialized as anticipated, resulting in many people (15% of respondents) with existing mental health disorders no longer being treated	
Manitoba				0	• The <u>Office of the</u> <u>Auditor General of</u> <u>Manitoba</u> is in the process of conducting an audit of educational approaches for K-12 education during COVID-19
Ontario	 The Office of the Auditor General of Ontario released a six-part report that describes in detail Ontario's COVID-19 response, including: 1) Emergency Management in Ontario; 2) Outbreak Planning and Decision-Making; 3) Laboratory Testing, Case Management and Contact Tracing; 4) Management of Health-Related COVID-19 Expenditures; 5) Pandemic Readiness and Response in Long-term Care; and 6) Personal 	 The Office of the Auditor General of Ontario released a six-part report that describes in detail Ontario's <u>COVID-19 response</u> The Chief Medical Officer of Health of Ontario did not fully exercise his powers under the <i>Health Protection</i> and Promotion Act, which led to 34 local medical officers of health seeking more direction and regional inconsistency 	Ontario Health released recommenda tions on optimizing care through COVID-19 transmission scenarios that were rooted in lessons learned from	 The Office of the Auditor General of Ontario provided nine recommendations with 29 action items in the <u>Outbreak Planning and</u> <u>Decision-Making</u> report to address findings from the comprehensive audit The Ontario command governance structure was not dominated by public-health expertise and was 	

			0	<u>6</u> 1	
	ctive Equipment (to be	• Early decisive action and	Ontario's	often cited as	
release	/	preventive measures	first wave:	complex and	
	y lessons and strategies	were not taken to protect	o Provide	confusing	
	m the SARS outbreak were	the public's health in	care to all	 Ontario's Provincial 	
	t implemented prior to the	absence of scientific	types of	Emergency	
	OVID-19 pandemic, and	certainty	patients	Management Office	
	sons learned from previous	• Public Health Ontario	and	had significant	
	ves of the current	played a diminished role	clients	leadership	
1	ndemic have not been	in the overall provincial	o Do not	changeover, outdated	
	blied consistently	response (e.g., Ontario	defer	emergency plans, lack	
	mmunication with external	Health did the reporting	emergenc	of involvement,	
stak	keholders is inconsistent	of provincial surveillance	y, urgent,	inadequate	
and	l not timely	data and coordinating	and time-	communications and	
o The	e federal government did	provincial laboratory	sensitive	record-keeping, and	
not	t provide accurate and	testing) which led to	care	lack of sufficient staff	
time	ely information on	confusion by local	o Follow an	to implement a	
trav	vellers entering Ontario	medical officers of health	equitable	provincial response	
o Sine	ce the publication of the	on roles and	and	structure	
Off	fice of the Auditor General	responsibilities	person-	 Scientific expert 	
of C	Ontario's report, the	• Variations in	centred	advice was not	
min	histry has since responded	management and	approach	adequately presented	
and	l planned <u>to address some</u>	operations among	with full	during decision-	
	the recommendations	public-health units	continuu	making	
		contributed to	m of care	• The Office of the	
		fragmentation and	that	Auditor General of	
		inconsistencies	engages	Ontario outlines key	
		o Public-health	patients	conclusions related to	
		information systems and	and their	the audit of	
		laboratory information	care	Management of Health-	
		systems were not	partners	Related COVID-19	
		modernized prior to the	o Heighten	Expenditures	
		pandemic, which had a	level of	\circ The audit reviewed	
		significant impact on	regional/s	\$4.4 billion of	
		public-health units and	ub-	spending related to	
		labs to conduct proper	regional	26 health initiatives	
		case management,	oversight	• The ministry does not	
		cuse management,	and	5	
			anu	have a proper	

		,	
contact tracing, and	coordinati	monitoring and	
laboratory testing	on with	reporting system to	
0 As of August 2020, 92%	flexibility	track COVID-19	
of close contacts of cases	(where	related expenditures	
have been contacted	care	• The province has	
within a day (after the	activities	sufficient	
Ministry started tracking	may be	authorizations and	
public health units'	asymmetri	approvals in place,	
performance)	cal due to	which were design	
• Race-based information	local	effectively to prevent	
was not initially collected	context)	payments to ineligible	
and factored into decision-	0 Increase	individuals or	
making to target high-risk	collaborat	organizations	
populations for prevention	ion with	\circ The audit found	
and public-health measures	health and	issues with ministries	
• An evidence brief on the	social	of health, long-term	
economic impacts due to	services	care, and seniors and	
public-health measures in	0 Accelerate	accessibility. related	
response and recovery	services	to poor reporting	
during and after COVID-	to reduce	processes	
19 was published by Public	backlogs	 Front-line workers 	
Health Ontario	(e.g.,	did not receive their	
• Public Health Ontario	maintaini	pandemic pay until	
recommend a data-	ng staff	months later	
driven, regional or	wellness	• The General Auditor of	
provincial approach	and	Ontario's report	
(instead of a reactive and	access to	described 16 key	
local approach) to	PPE)	recommendations with	
support a sustainable	o Continue	55 action items to	
transition from response	testing,	address challenges	
to recovery as	contact	raised in the pandemic	
vaccination rates increase	tracing	readiness and response	
in Ontario	and	in Long-term Care	
 Lockdown strategies that 	isolating	report	
maintain a moderate	o Integrate	o Overall, the sector	
lockdown level are more	health	was not sufficiently	
effective than oscillating	equity	prepared or equipped	
cifective than oscillating	- 1	prepared or equipped	

1	• 1	. 11	
between strict and mild	considerat	to respond to the	
lockdowns according to	ions	pandemic due to	
published modelling	• Ontario	existing facility,	
studies cited in the brief	Health	staffing, and	
• Early action with	released	infection-prevention	
stringent public-health	recommenda	and control issues	
measures can be less	tions for	• Long-term care is	
costly for the economy	regional	often disconnected	
than multiple less-	health-care	with other care	
intense, shorter duration	delivery	services	
lockdowns	during the	 Pandemic responses 	
• Basic income for	COVID-19	led to unintended	
individuals affected by	pandemic	consequences on	
lockdowns should be in	(i.e.,	long-term care staff	
place	outpatient	and residents	
	care, primary	0 Unclear	
	care, and	communication, lack	
	home and	of enforcement and	
	community	oversight affected	
	care) and for	containment of	
	optimizing	COVID-19	
	the supply of	• The Ontario Long-term	
	PPE based	Care COVID-19	
	on planning	Commission report was	
	assumptions	published on 30 April	
	derived by	2021 and found that the	
	previous	province's lack of	
	waves	pandemic preparedness	
		and the existing poor	
		state of the long-term	
		care sector led to the	
		current devastation	
		o There was	
		insufficient long-term	
		care workforce, lack	
		of leadership, lack of	
		infection-control	
		intection-control	

	training, and
	improper home
	infrastructure
	0 No drills or
	simulations for a
	pandemic were
	conducted
	• The province did not
	track the status of
	PPE supplies in long-
	term care
	• The commission
	recommends the
	involvement of
	private investors by
	funding the
	infrastructure of
	long-term care homes
	(like hospitals)
	• The commission
	states that a proactive
	approach should have
	occurred instead of
	an episodic and
	reactive approach
	• The Long-Term Care
	COVID-19 commission
	reported best practices
	that were applied in
	some settings, such as:
	1) strong and
	accountable leadership
	(e.g., acted decisively,
	sense of urgency,
	effective mobilization,
	implemented creative
	solutions with external
	solutions with Catchiai

Quebec • A preliminary analysis of data regarding proxiding and how any analysis of data regarding proxiding and how any analysis of data regarding proxiding and how any analysis of data regarding proxiding and how any any and how any any any and how any any and how any				
Quebec • A preliminary analysis of data regarding providing one done, it homes				relationships); 2)
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Quebec • A preliminary analysis of data regarding providing one dose of mRNA yacarchines of yacarchines of mRNA yacarchines of yacarchines of mRNA yacarchines of mRNA yacarchines of mRNA yacarchines of yacarchi				offer full-time hours at
Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long terms Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long terms				one home, hire private
Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long terms Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long terms				caregivers, hire family
Quebec • A preliminary analysis of data regarding providing one dose of mRNA yyaccines to residents of long term care homes • A preliminary analysis of data regarding providing one dose of mRNA yyaccines to residents of long term care homes				
Quebec • A preliminary analysis of data regarding provided resources for communication; and 4) enhanced whistleblower protection Quebec • A preliminary analysis of data regarding providing one does of mRNA yaccines to residents of long-term care homes				
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Quebec • A preliminary analysis of data regarding providing one dose of mRNA yaccines to residents of long-term care homes • The Ontario Patient Ombudsman provided four key • The Ontario Patient • The Ontario Patient Ombudsman provided four key • recommendations based • on 250 complaints related to long-term care • Onmes during the • COVID-19 pandemic: 1) backstops and • Ontigency plans for all • healthcare providers; 2) visitation policy • changes; 3) dedicated • resources for communication; and 4) • enhanced whistleblower • protection				
Quebec • A preliminary analysis of data regarding providing one dose of mRNA yaccines to residents of long-term care homes • A preliminary analysis of data regarding providing one dose of mRNA yaccines to residents of long-term care homes				
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Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long-term care homes • on 250 complaints related to long-term care homes during the COVID-19 pandemic: 1) backstops and contingency plans for all healthcare providers; 2) visitation policy changes; 3) dedicated resources for communication; and 4) enhanced whistleblower protection				
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Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long-term care homes enhanced whistleblower protection				
Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long-term care homes protection				
Quebec • A preliminary analysis of data regarding providing one dose of mRNA vaccines to residents of long-term care homes				
data regarding providing one dose of mRNA vaccines to residents of long-term care homes				protection
data regarding providing one dose of mRNA vaccines to residents of long-term care homes	Quebec	• A p	reliminary analysis of	
vaccines to residents of long-term care homes		data	regarding providing	
long-term care homes				
		vac	zines to residents of	
shows the campaign to				
		sho	ws the campaign to	

have been successful in
reducing cases of COVID-
19 among long-term care
residents in Quebec
• A significant reduction in
case numbers was
observed 28 days
following vaccination in
long-term care homes,
and this reduction in
case numbers was
sustained
• The reduction in case
numbers in long-term
care homes (whose
residents were prioritized
to receive the first
vaccine doses) was
greater than the
reduction in COVID-19
cases in the general
population during the
studied period
o There was a 95%
reduction in COVID-19-
related deaths among
long-term care residents
in March 2021 (post-
vaccination) when
compared to December
2020 (pre-vaccination)
o <u>Another Quebec</u>
evaluation reported a
preliminary vaccine
effectiveness rate of
80.3% for long-term care

		 residents between 21 and 27 days after vaccination Preliminary data on vaccine effectiveness among healthcare workers in Quebec show a significant reduction in COVID-19 cases among healthcare workers as vaccination was rolled out in this group 			
New Brunswick	• <u>The Auditor General of New</u> <u>Brunswick has recommended</u> that the provincial Office of the Comptroller improve its process for the tracking and reporting of program funding, financial relief measures, and federal assistance related to the COVID-19 pandemic	-	-	-	-
Nova Scotia				 A report from the Northwood Quality- improvement Review Committee submitted to Nova Scotia's Minister of Health and Wellness has identified key drivers for the largest nursing home outbreak in the province, and recommendations for the future The report has 17 recommendations for Northwood, the Department of Health and Wellness and 	

government, informed
by consultations with
more than 350
stakeholders including
residents and families,
staff members,
healthcare practitioners
and leaders involved in
the Northwood
outbreak response
• The recommendations
are indicated to be acted
upon in short (less than
three months) and long
term (greater scope and
require longer than
three months) time
horizons, and are
organized based on level
of intervention: facility
level, governance and
organization level, and
legislation and
provincial level
1
• Nova Scotia's
Department of Health
and Wellness and Nova
Scotia Health Authority
published a report
presenting a literature
review, analysis, findings
and recommendations
based on long-term care
Infection Prevention
and Control (IPAC)
teams during the first

Prince Edward Island	 The <u>Auditor General of Prince</u> <u>Edward Island's annual report of</u> <u>2021</u> indicates that the auditor general has been requested to undertake an examination of the government's COVID-19 pandemic response The office of the auditor general is to report back by August 2021 and is currently in phase one (includes reviewing programs paid for using the Emergency Contingency Fund) of their 		 wave of the COVID-19 pandemic Recommendations and actions should be formalized to continue through subsequent waves of the pandemic 	
Newfoundland	reporting	 		
and Labrador				
Yukon				
Northwest				
Territories				
Nunavut				

Appendix 7: Documents excluded at the final stages of reviewing

Type of document	Hyperlinked title
Full systematic reviews	<u>A systematic review on COVID-19 mitigation strategies on transmission and social-economic impact and key</u> lessons for low income countries (LICS)
	Lessons learned from the resilience of Chinese hospitals to the COVID-19 pandemic: a scoping review (Pre-print)
	Social protection as a key tool in crisis management: Learnt lessons from the COVID-19 pandemic
	Policing in pandemics: A systematic review and best practices for police response to COVID-19
	COVID-19 economic response and recovery: A rapid scoping review
	Economic evaluation of programs against COVID-19: A systematic review
	An economic evaluation of Influenza and COVID -19 pandemic prevention and control interventions: a systematic review
	<u>A Rapid Scoping Review: What factors/criteria/considerations should be in place to move forward with lifting restrictions at a regional level?</u>
	Systematic review of experiences of key actors and organisations at multiple levels within health systems internationally in responding to COVID-19
	Efficacy and safety of current therapeutic options for COVID-19 - lessons to be learnt from SARS and MERS epidemic: A systematic review and meta-analysis
	A systematic review on COVID-19 mitigation strategies on transmission and social-economic impact and key lessons for low income countries (LICS)
	Lessons learned from the resilience of Chinese hospitals to the COVID-19 pandemic: a scoping review (Pre-print)
	Social protection as a key tool in crisis management: Learnt lessons from the COVID-19 pandemic
	Policing in pandemics: A systematic review and best practices for police response to COVID-19
	COVID-19 economic response and recovery: A rapid scoping review
Rapid review	Strengthening the role of local and international non-governmental organizations in pandemic responses

	Review of international public policy responses to easing restrictions introduced to limit the spread of COVID19
	What factors may help protect Indigenous peoples and communities in Canada and internationally from the COVID-19 pandemic and its impacts?
	COVID-19 pandemic and its impacts?
	What is known about the impact of the COVID-19 pandemic on Indigenous communities in Canada?
	Les services sociaux et de santé mentale à maintenir, à remettre en place ou à déployer auprès de la population
	générale lors de la phase de rétablissement de la pandémie
	Problems with Evidence Assessment in COVID-19 Health Policy Impact Evaluation (PEACHPIE): A systematic strength of methods review
	Population-wide testing of SARS -CoV-2: Country experiences and potential approaches in the EU/EEA and gthe United Kingdom
	COVID-19: Regard sur la fréquentation des urgences par les adolescents pour certaines problématiques de santé mentale et psychosociales
	Impacts of health-related school closures on child protection outcomes: A review of evidence from past pandemics and epidemics and lessons learned for COVID-19
	Mental health of healthcare workers during the COVID-19 outbreak: A rapid scoping review to inform provincial guidelines in South Africa
	Strengthening the role of local and international non-governmental organizations in pandemic responses
	Review of international public policy responses to easing restrictions introduced to limit the spread of COVID-19
	What factors may help protect Indigenous peoples and communities in Canada and internationally from the COVID-19 pandemic and its impacts?
Single studies	Assessing the impact of COVID-19 pandemic on urban transportation and air quality in Canada
	Mental health consequences for healthcare workers during the COVID-19 pandemic: A scoping review to draw lessons for LMICs
	Neurological complications of coronavirus infection; a comparative review and lessons learned during the COVID-19 pandemic

Adaptations of transfusion systems to the COVID-19 pandemic in British Columbia, Canada: early experiences of a large tertiary care center and survey of provincial activities
Overall impact of the COVID-19 pandemic on interventional radiology services: A Canadian perspective
Socio-demographic disparities in knowledge, practices, and ability to comply with COVID-19 public health measures in Canada
Covid-19: regard sur la fréquentation dans les urgences au québec
Unintended consequences of COVID-19: Impact on self-harm behaviour
Unintended consequences of COVID-19: Impact on harms caused by substance use
Potential earnings losses among high school and postsecondary graduates due to the COVID-19 economic downturn
Uncertainties around COVID-19 from the perspectives of oral health care workers during the first wave of SARS- CoV-2 infections in British Columbia, Canada
How did the COVID-19 pandemic affect the hours worked in Canada? An analysis by industry, province and firm size
COVID-19 in Canada: A one-year update on social and economic impacts
Impact of COVID-19 on businesses majority-owned by women, third quarter of 2020
Impact of COVID-19 on small businesses in Canada, third quarter 2020
Impact of COVID-19 on businesses majority-owned by specific populations, first quarter of 2021
Impact of COVID-19 on businesses majority-owned by visible minorities, third quarter of 2020
Impact of the COVID-19 pandemic on the NEET (not in employment, education or training) indicator, March and April 2020
Economic impact of the COVID-19 pandemic on Canadian businesses across firm size classes
Working from home: Potential implications for public transit and greenhouse gas emissions
Homeschooling' and the COVID-19 crisis: The insights of parents on curriculum and remote learning

	The educational impact of the Covid-19 rapid response on teachers, students, and families: Insights from British Columbia, Canada
	Be Kind, be calm, be safe: Four weeks that shaped a pandemic
	Summary of COVID-19 pandemic funding allocations and other financial relief measures
	Fallout from the COVID-19 pandemic: A look back at selected industries in the service sector in 2020
	Household economic well-being during the COVID-19 pandemic, experimental estimates, fourth quarter 2020
	Does social isolation really curb COVID-19 deaths? Direct evidence from Brazil that it might do the exact opposite
	Physical distancing and future COVID-19 deaths in Brazil: Evidence of a paradoxical effect
	Patterns of COVID-19 testing and mortality by race and ethnicity among United States veterans: A nationwide cohort study
	Global health and health workforce development: What to learn from COVID-19 on health workforce preparedness and resilience
	Health systems resilience in managing the COVID-19 pandemic: lessons from 28 countries
	The educational impact of the Covid-19 rapid response on teachers, students, and families: Insights from British Columbia, Canada
	Summary of COVID-19 pandemic funding allocations and other financial relief measures
Opinion pieces	Policy makers must act on incomplete evidence in responding to COVID-19
	CADTH drug implementation advice: Bamlanivimab for mild-to-moderate symptoms of COVID-19
	Best Brains Exchange proceedings report: Strengthening the structural determinants of health post-COVID-19
	Recording COVID-19 measures in the national accounts
	Foresight on COVID-19: Possible shifts and implications
	Unpacking the health and social consequences of COVID-19 through a race, migration and gender lens
	Investing in Care, Not Profit: Recommendations to transform long-term care in Ontario

Lessons learnt during the COVID-19 pandemic: For patients with end-stage renal disease, we should prioritize home-based treatment and telemedicine
Lessons (so far) from the COVID-19 pandemic
What can we learn from Israel's rapid roll out of COVID 19 vaccination?
Blunting COVID-19's negative impact: Lessons from Israel's vaccination campaign
Policy makers must act on incomplete evidence in responding to COVID-19
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