EVIDENCE SYNTHESIS BRIEFING NOTE

TOPIC: STRATEGIES TO ENCOURAGE VACCINE ACCEPTANCE AND ADDRESS VACCINE HESITANCY

Information finalized as of November 17, 2020.^a

This Briefing Note was completed by the Research, Analysis, and Evaluation Branch (Ministry of Health) in collaboration with a member of the COVID-19 Evidence Synthesis Network. Please refer to the <u>Methods</u> section for further information.

<u>Purpose</u>: This briefing note summarizes strategies for encouraging vaccine acceptance and addressing vaccine hesitancy or uptake.

Key Findings:

- Research evidence suggests that vaccine acceptance is encouraged and hesitancy reduced through: 1) multicomponent community-based strategies that typically include information, education, and reminder and recall interventions; and 2) the availability of vaccines through familiar and accessible locations (e.g., pharmacies).
- Effective interventions targeting specific population groups include:
 - General Public: Effective interventions include those that are community-based (e.g., educational resources such as brochures and posters, home visits, technology-based health literacy, monetary incentives), reminder and recall systems (e.g., telephone calls), and pharmacy-based. Global surveys reported several facilitators for uptake of a COVID-19 vaccine, including political support, high levels of trust in information from government sources, and messages emphasizing personal health risks and collective health consequences of not vaccinating.
 - Parents and Children: To promote vaccine uptake in children, parents benefit from access to balanced and accessible information about harms and risks, as they may find it difficult to know which information sources to trust. Parents tend to view health workers as important sources of information, but poor communication and negative relationships can impact vaccination decisions.
 - **Older Adults**: Reminder and recall systems (e.g., personalized phone calls), pharmacist-provided education, nurse-provided vaccinations, home visits, and free vaccination programs may be effective.
 - **People Who Are Hesitant/Opposed to Vaccination**: Setting up vaccination clinics in familiar and accessible locations and leveraging community partners for reach-out may be effective.
- Expert recommendations to address vaccine hesitancy and improve vaccine uptake include public education and transparency, decentralized and convenient locations for vaccination that build upon existing vaccination programs, ethical vaccine allocation, accountability for reporting misinformation, intersectoral partnerships, and health provider training.
- Canada (including Ontario), Australia, China, New Zealand, the United Kingdom, and the United States have launched vaccination campaigns through common modalities (e.g., in-person, television, social media), engaged health providers to provide information and address concerns during clinic visits, and combatted misinformation through community engagement and transparency.

Implementation Implications: Multi-component interventions that focus on information or education provision, behaviour-change support, and skills and competencies development are likely to encourage vaccine acceptance and uptake.

^a This briefing note includes current available evidence as of the noted date. It is not intended to be an exhaustive analysis, and other relevant findings may have been reported since completion.





Supporting Evidence

Table 1 below summarizes the scientific evidence and jurisdictional experiences regarding strategies to encourage vaccine acceptance and address vaccine hesitancy or uptake. Jurisdictions reviewed include Canada, Australia, China, New Zealand, the United Kingdom (UK), and the United States (US). Most of these sources do not address a COVID-19 vaccine specifically; COVID-19-related information is included where available.

Additional details are provided in the Appendix: <u>Table 2</u> (for detailed findings extracted from highly relevant evidence documents for encouraging vaccine acceptance and addressing vaccine hesitancy among different target population groups), <u>Table 3</u> (for experiences from other countries with encouraging vaccine acceptance and addressing vaccine hesitancy), and <u>Table 4</u> (for experiences from Canadian jurisdictions with encouraging vaccine acceptance and addressing vaccine hesitancy).

Table 1: Scientific Evidence, Expert Guidance, and Jurisdictional Experiences for Strategies to Encourage Vaccine Acceptance and Address Vaccine Hesitancy

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Scientific	• <u>Research Findings</u> : Overall, research suggests that vaccine acceptance is encouraged and
Evidence	hesitancy reduced through: 1) multi-component community-based strategies that typically
and Expert	include information, education, and reminder and recall interventions; and 2) availability of
Guidance	vaccines through familiar and accessible locations (e.g., pharmacies). Key findings related to
	interventions targeting different population groups include:
	○ General Public:
	 <u>Community-Based Interventions</u>: Two systematic reviews found that community-based
	interventions using informational or educational resources (e.g., brochures, pamphlets,
	posters) improves attitudes about vaccines. Other effective interventions may include
	home visits, technology-based health literacy, and monetary incentives. Another
	systematic review suggested that: 1) resource-intensive interventions (e.g., manual
	outreach, tracking, home visits) may be necessary strategies to increase vaccination
	rates amongst populations who typically have low rates of vaccination; and 2) costs
	could be reduced if interventions are implemented in a stepped approach, starting with
	less resource-intensive interventions (e.g., reminder and recall systems) and progressing
	to other interventions if needed.
	Reminder and Recall Interventions: A systematic review found that reminding people
	(e.g., by telephone and automatic calls, sending a letter or postcard, sending a text
	message) to get a vaccination likely increases the number of people who receive
	vaccines. Reminding people over the telephone may be more effective than other types
	of reminders.
	 <u>Pharmacy-Based Interventions</u>: A systematic review found an increase in vaccine
	coverage when pharmacists were involved in the immunization process, regardless of
	the role (e.g., educator, facilitator, administrator) or vaccine administered (e.g., influenza,
	pneumococcal) when compared to vaccine provision by traditional providers without
	pharmacist involvement. Convenience and accessibility (e.g., extended hours,
	availability of walk-in appointments) of pharmacies are important facilitators of
	immunization acceptance and uptake, but political and organizational barriers may limit
	the feasibility and effectiveness of pharmacies for sites of vaccination.



 Facilitators for COVID-19 Vaccine Uptake: A global survey (October 2020) of 13,426 people in 19 countries found that respondents that reported higher levels of trust in information from government sources were more likely to accept a vaccine and take their employer's vaccine advice. One survey from the US found that: 1) messages that emphasize personal health risks and collective health consequences of not vaccinating significantly increased intentions to vaccinate; 2) the effects were similar regardless of the message source (ordinary people or medical experts) and efforts to pre-emptively de-bunk concerns about the safety of expedited clinical trials; and 3) the 'economic cost' related framing had no discernible effect on vaccine intentions. Another US survey found that public opinion toward COVID-19 vaccinations may be responsive to political motivation and support, with findings highlighting that positive statements by President Donald Trump and Dr. Anthony Fauci had a significant positive effect on public reactions towards a COVID-19 vaccine. Parents and Children: In terms of facilitators for vaccine uptake in children, a systematic review found that parents: 1) want balanced information about harms and risks that is accessible (not just in health settings) and clearly presented in advance of a vaccination appointment; 2) view health workers as an important source of information, but poor communication and negative relationships can impact vaccination decisions; and 3) find it difficult to know which information sources to trust and/or find unbiased and balanced information. Older Adults: A systematic review indicated that several interventions were found to be effective for increasing demand for vaccination: A systematic review found that the attitude of parents who are hesitant about vaccines substantially improved after receiving educational resources and information (e.g., brochures, pamphlets, posters). Additionally, a rapid review reported that vaccine uptake be
 Expert Recommendations: Two guidelines from the World Health Organization (WHO) provided <u>general insights about</u> vaccine delivery, but also described specific steps for ministries of health to encourage vaccine acceptance and address vaccine hesitancy. The <u>Vaccine Introduction Readiness</u> <u>Assessment Tool</u> includes information on establishing data systems to collect social-media misinformation and behavioural data. A rapid review from the UK's national academy of sciences, <u>The Royal Society</u>, published five key recommendations to address vaccine hesitancy and improve vaccine uptake: 1) public dialogue about vaccine concerns and misinformation; 2) convenient locations for vaccination that build on existing vaccination programs; 3) decentralized local vaccination programs with visually appealing, multi-language toolkits for local jurisdictions and partners; 4) ethical allocation of vaccines by prioritizing age and comorbidity-based groups; and 5) accountability from media and responsibility from citizens to report misinformation and remove harmful information.



	• The expert opinion of a 23-member <u>Working Group of Readying Populations for COVID-19</u> recommended that governments should: 1) value social science, generate research on social, behavioural, and communication science, and develop active partnerships; 2) inform public expectations about COVID-19 vaccination benefits, risks, and supply (e.g., temper expectations, be transparent about vaccine-safety systems, seek input from marginalized populations); 3) communicate in meaningful ways (e.g., reject political tensions, conduct qualitative studies to understand local and community needs and attitudes, engage networks of trusted champions and spokespeople to deliver a unified message); 4) earn public trust and confidence in allocation and distribution (e.g., develop strategies that take marginalized populations); 5) make vaccination available in safe, familiar places (e.g., schools, pharmacies, places of worship, workplaces, health departments, senior centres, home visits), prepare educational materials, train providers and other allied professionals, develop hesitancy campaign plans, and foster intersectoral partnerships with government, health departments and media); and 6) establish an independent body to instil public ownership (e.g., establish public committees to report on measures such as public understanding, access, and acceptance).
International	 General Population-Based Interventions: Australia, China, New Zealand, the UK, and the
Scan	 US generally reported efforts to encourage vaccine acceptance and address vaccine hesitancy through existing population-based interventions, which include: Launching vaccination campaigns with an emphasis on the importance of vaccination; Providing tailored information to describe evidence on the risks and benefits of vaccines through common modalities (e.g., radio/podcasts, television, email alerts and reminders, text messages, face-to-face, social media) and through less frequently mentioned modalities (e.g., financial incentives, reminder-recall notifications); Engaging health care providers to provide information and address concerns from vaccine-hesitant individuals during clinic visits; and Combating myths and misinformation about vaccines through community engagement and transparency of the vaccine development process. COVID-19-Specific Interventions: The US Department of Health and Human Services' National Vaccine Advisory Committee released five recommendations to build confidence on the vaccine, which outline the need to: Deliver effective COVID-19 vaccines Application process; Rapidly deploy and coordinate vaccine safety monitoring through the federal-level immunization task force; Create proactive and highly impactful communication for the general public on the development, safety, approval, and recommendation criteria; Establish an independent group of vaccine and public health experts to conduct rapid reviews of available vaccine safety monitoring data; and
Canadian	• Expert Recommendations: There is existing guidance to encourage vaccine acceptance and
Scan	help address vaccine hesitancy for the general public, such as strategies outlined by the <u>Public</u> <u>Health Agency of Canada, Canadian Vaccination Evidence Resource and Exchange Centre</u> (CANVax), and the <u>Canadian Pediatric Society</u> . For example:



	 A Public Health Agency of Canada report (2016) described engagement strategies. For
	vaccine acceptors, strategies include encouraging resiliency, describing common side
	effects and rare adverse events, and using verbal and numeric descriptions of disease
	risks. For those who are vaccine hesitant, key strategies include building rapport and
	accepting questions and concerns, establishing honest dialogue with information about risk
	and benefits of the disease and vaccine, using decision aids and other information tools,
	and providing the opportunity to book additional appointments with health care providers for
	further discussion. Lastly, for those who refuse vaccines, strategies include avoiding
	debates about vaccination, providing opportunities for brief open-ended discussions,
	providing information about the risks of non-vaccination, and offering access to clinical care during adverse events.
	 A presentation (January 24, 2020) from the Vaccine Evaluation Centre at the University of
	British Columbia provided recommendations for health care providers to improve vaccine
	hesitancy, which includes maintaining trust, reinforcing the role of community immunity,
	emphasizing pro-social reasons for vaccination, and acknowledging diversity by working
	with culturally specific health promotion groups and patient/parent communities.
	General Population-Based Interventions: All Canadian provinces and territories reported
	strategies to encourage immunization among the general population, which were often cited
	within flu-vaccination campaigns. The most-reported strategy included information or education
	campaigns on social media, including web-based advertising to address hesitancy, fact sheets
	about the risks and benefits, and information on immunization schedules and where to get their
	vaccine. For example, Yukon's 2020 influenza vaccine campaign featured public education and
	engagement through YouTube, and explained key vaccination dates, provided information on
	COVID-19, and addressed vaccine hesitancy.
Ontario	The Government of Ontario's Fall Preparedness Plan for Health, Long-Term Care and
Scan	Education states that there are actions underway to engage with stakeholders to promote the
	flu vaccine and run a public-education and targeted flu campaign.
	 Prior to the COVID-19 pandemic, the Ontario Medical Association launched the
	#AskOntarioDoctors social media and public information campaign to combat vaccine
	misinformation and hesitancy.
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<u>Methods</u>

The COVID-19 Evidence Synthesis Network is comprised of groups specializing in evidence synthesis and knowledge translation. The group has committed to provide their expertise to provide high-quality, relevant, and timely synthesized research evidence about COVID-19 to inform decision-makers as the pandemic continues. The following member of the Network provided an evidence synthesis product that was used to develop this Evidence Synthesis Briefing Note:

 Gauvin FP, Lavis JN. <u>COVID-19 rapid evidence profile #24</u>: What is known about strategies for encouraging vaccine acceptance and addressing vaccine hesitancy (including efforts to combat misinformation that may lead to vaccine hesitancy) or uptake (when interpreted, at least in part, through the perspective of vaccine acceptance or hesitancy)? Hamilton: McMaster Health Forum, 17 November 2020.

For more information, please contact the Research, Analysis and Evaluation Branch (Ministry of Health).





APPENDIX

The following tables are from an evidence synthesis product produced by a member of the COVID-19 Evidence Synthesis Network:

• Gauvin FP, Lavis JN. <u>COVID-19 rapid evidence profile #24: What is known about strategies for encouraging vaccine acceptance and addressing vaccine hesitancy (including efforts to combat misinformation that may lead to vaccine hesitancy) or uptake (when interpreted, at least in part, through the perspective of vaccine acceptance or hesitancy)? Hamilton: McMaster Health Forum, 17 November 2020.</u>

Table 2: Key Findings from Highly Relevant Evidence Documents for Encouraging Vaccine Acceptance and Addressing Vaccine Hesitancy Among Different Target Groups

Target Group	Key Findings from Highly Relevant Evidence Documents
Target Group General public only	Key Findings from Highly Relevant Evidence Documents Key findings from full systematic reviews A review of the effects of different types of patient reminder and recall interventions to improve vaccination rates found that reminding people to get a vaccination likely increases the number of people who receive vaccination rates by an average of 8%; and reminding people by telephone and automatic calls, sending a letter or postcard, or sending a text message each increase vaccination rates, but reminding people over the telephone is more effective than other types of reminders (Source; AMSTAR rating 9/11; literature last search 2017) An increase in vaccine coverage was found when pharmacists were involved in the immunization process, regardless of role (e.g., educator, facilitator, administrator) or vaccine administered (e.g., influenza, pneumococcal), when compared to vaccine provision by traditional providers without pharmacist involvement (Source; AMSTAR rating 10/11; literature last searched 2015) Vaccine attitude, parents' attitude towards vaccines substantially improved in eight of 15 studies after receiving educational resources and information, such as brochures, pamphlets, or posters (Source; AMSTAR rating 8/10; literature last searched September 2012) Increased vaccine acceptance and uptake was found following community-based interventions (most of which were targeted at parents or caregivers of children and using financial burden in low-income settings); and technology-based health literacy (Source; AMSTAR rating 5/9; literature last searched August 2019 – pre-print) A review of the feasibility, acceptability, and effectiveness of community pharmacies as sites for adult vaccination found that: pharmacy-based immunization services are widely accepted by both patients a
	who are vaccine hesitant want more information



Target Group	Key Findings from Highly Relevant Evidence Documents
	 Most of the included interventions addressed at least one or two key aspects of communication, including the provision of information prior to a vaccination appointment and tailoring information to parents' needs, but none of the interventions responded to negative media stories or address parental perceptions of health worker motives (Source; AMSTAR rating 7/9; literature last searched August 2013) There is strong evidence for the use of community-based interventions (implemented in combinations) to increase vaccination rates, but many interventions (e.g., community-based interventions using manual outreach, tracking or home visits were more costly than interventions without these components) are resource-intensive, and the review suggested that: 1) resource-intensive interventions may be necessary strategies to increase vaccination rates amongst populations who typically have low rates of vaccination; and 2) costs could be reduced interventions are implemented in a stepped approach, starting with less resource-intensive interventions (e.g., reminder and recall systems) and progressing to other interventions in a strategic manner if needed (Source; AMSTAR rating 3/10; literature last searched May 2012) Key findings from single studies An analysis of how timing and elite endorsement affects public opinion about COVID-19 vaccines in the United States found that public opinion toward COVID-19 vaccinations may be responsive to political motivation and support, with findings highlighting that positive statements by President Trump and Dr. Fauci had a significant positive effect on public reactions towards COVID-19 vaccine (Source; pre-print - last edited 28 October 2020) A global survey (13,426 people in 19 countries) found that respondents reporting higher levels of trust in information from government sources were more likely to accept a vaccine and take their employer's vaccine advice (Source; published 20 October 2020)
	 A survey that randomly assigned 7,064 respondents in the United States to read pro-vaccine communication materials with information emphasizing personal health risks, economic costs or collective public-health consequences of not vaccinating that had the message source (ordinary people or medical experts) also randomly assigned found that: 1) messages that emphasize personal-health risks and collective health consequences of not vaccinating were found significantly increase intentions to vaccinate; 2) the effects were similar regardless of the message source and efforts to preemptively de-bunk concerns about safety of expedited clinical trials; and 3) economic cost frames were found to have no discernible effect on vaccine intentions (<u>Source</u>; last updated 8 September 2020 - pre-print)
High-risk groups only (e.g., those who are older, have chronic conditions, are immunocompromised, and have greater exposure due to living and/or working conditions)	 Key findings from full systematic reviews Several interventions were found to be effective increasing demand for vaccination among community dwelling older adults, including reminder/recalls by letters and leaflets, pharmacist-provided education, nurse-provided vaccinations, personalized phone calls, home visits, client group clinic visits, and free vaccination programs (<u>Source</u>; AMSTAR rating 9/11; literature last searched 7 December 2017)
Individuals who are hesitant about or opposed to vaccination	 Key findings from full systematic reviews <u>Attitude of parents who are hesitant towards vaccines substantially improved after receiving educational resources and information, such as brochures, pamphlets, or posters (Source; AMSTAR rating 8/10; last literature searched September 2012)</u> Key findings from rapid reviews Vaccine uptake among hard-to-reach groups may be improved by setting up vaccination sites in familiar and accessible locations, and leveraging community partnerships (Source; AMSTAR rating 3/9; date of literature search not reported – published 27 August 2020)
More than one of the above target groups	 Key findings from guidelines developed using a robust process WHO produced guidance and steps to develop a plan to generate COVID-19 vaccine confidence, acceptance and demand (<u>WHO technical guidance;</u> last update 21 September 2020) WHO developed a COVID-19 Vaccine Introduction Readiness Assessment Tool (VIRAT), which includes information on establishing data collection systems for social media misinformation and behavioural data (<u>WHO technical guidance;</u> last update 21 September 2020)





Target Group	Key Findings from Highly Relevant Evidence Documents
	Key findings from rapid reviews
	 The Royal Society, U.K.'s national academy of sciences, published five key recommendations to address vaccine hesitancy and improve vaccine uptake (<u>Source</u>; AMSTAR rating 2/9; data of literature search October 2020)
	Key findings from guidelines developed using some type of evidence synthesis and/or expert opinion
	 The U.S. Working Group on Readying Populations for COVID-19 vaccine released a set of recommendations to improve vaccine acceptance and address hesitancy, which includes valuing social science, informing public expectations about COVID-19 vaccination risks, benefits, and supply, communicating in meaningful ways, earning public trust and confidence, making vaccination available in safe, familiar places, and establishing independent body to instil public ownership and monitoring (<u>Johns Hopkins Center for Health Security and Texas State University Department of</u>
	Anthropology; published 20 October 2020)





Table 3: Experiences in Other Countries with Encouraging Vaccine Acceptance and Addressing Vaccine Hesitancy

Country	Efforts to Encourage Vaccine Acceptance and to Address Vaccine Hesitancy
Australia	<u>Get the Facts</u> campaign, which launched in 2020, is the third phase of the Childhood Immunization Education Campaign to encourage families to get their children vaccinated on time
	The Australian Government Department of Health website outlines the importance of vaccinating children on time and the rationale behind the <u>vaccination</u> schedule
	Services Australia offers an online and mobile app called Medicare to check your child's immunization history
	 The Melbourne Vaccine Education Centre produces <u>podcasts</u> that address common questions about vaccines, as well as vaccine experts discussing the benefits of immunization for children and adults
	• The 2020 influenza prevention campaign raises awareness about the influenza vaccination, with the core objective being to increase influenza vaccination rates, raise awareness about the risks associated with contracting the virus as well as the potential risk of contracting influenza and COVID-19 at the same time
	 Promotional materials include <u>television commercials</u> that ask viewers to protect themselves and others by getting vaccinated
China (hyperlinks in	China has <u>a planned prophylactic vaccination system</u> , and implemented <u>a vaccination certificate system</u> for children, and children's vaccination certificates/cards need to be reviewed before admissions to school
Chinese)	• The <u>China National Immunization Programme</u> is a government and academic organization, with the overall goal to control/eliminate/eradicate vaccine-preventable diseases in China by raising awareness about the benefits of immunization and promoting the understanding and use of vaccines
	 As <u>a member of the WHO-led project Vaccine Safety Net (VSN)</u>, information targeting the public and health professionals is available to provide vaccination-related documents and promotional materials, such as fact sheets, multimedia (video, posters), training and educational materials, regulatory documents, frequently asked guestions and answers
	 In 2016, China's government issued <u>vaccination regulations</u> and recommended providing vaccination information through multiple approaches (face-to-face, phone calls, text messages, emails, broadcast, posters and social media)
	 On <u>14 September of 2020</u>, China's government recommended taking the following measures to improve vaccine uptake for the prevention and control of influenza: Providing influenza vaccine reminders to raise public awareness
	 Increasing the number of vaccination sites and locations in primary care
	 Starting vaccination program early
	 Extending vaccination schedule Increasing daily service time for vaccination
	 Encouraging centralized vaccination in schools, kindergartens, and nursing homes
	Reducing influenza vaccine fees for high-risk groups (children, older adults, people with chronic conditions, and healthcare professionals)
New Zealand	<u>New Zealand's Immunization Handbook</u> provides advice to healthcare providers on dealing with vaccine-hesitant individuals
	Effective communication and active listening are highlighted as key components of the informed-consent process when working with this group
	 Providers are advised to tailor the content of the conversation to the needs of the individual, use plain language rather than medical jargon, ensure respect and acknowledgement of individuals' concerns, and finish with an effective immunization recommendation
	The New Zealand Covid-19 Vaccine Strategy has a focus on securing vaccines but does not address communication efforts to increase COVID-19 vaccine uptake
United Kingdom	 The European Centre for Disease Prevention and Control released a <u>technical report</u> on interventions to address vaccine hesitancy The interventions responding to vaccine hesitancy were based on dialogue, communication, information tools for parents or healthcare workers, advocacy campaigns, and reminder-recall systems
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Country	Efforts to Encourage Vaccine Acceptance and to Address Vaccine Hesitancy
	The United Kingdom Department for International Development created a guidance document to address vaccine hesitancy
	 Interventions to reduce vaccine refusal and hesitancy included leader involvement, mass media and social-media campaigns, training for healthcare workers, financial incentives, and reminder-recall notification
United States	On 16 September 2020, the Departments of Health and Human Services and Defense released the Operation Warp Speed COVID-19 Vaccine Distribution
	Strategy which included a primary task of engaging with partners, stakeholders, and the public to promote vaccine confidence and uptake
	 On 23 September 2020 the Department of Health & Human Services' National Vaccine Advisory Committee released a letter to the Assistant Secretary for Health with the following five recommendations for building confidence in a COVID-19 vaccine:
	 Deliver effective COVID-19 vaccines to the public through the Food and Drug Administration's Biologics License Application (BLA) process Rapidly deploy and coordinate vaccine safety monitoring at the federal-level immunization task force
	 Create proactive and highly impactful communication on the development, safety, approval, and recommendation criteria geared towards the public Establish an independent group of vaccine and public health experts to conduct rapid reviews of available monitoring data
	 Conduct community-based studies and engagement to increase the likelihood of vaccine uptake in communities and marginalized populations
	 The Department of Health & Human Services' National Vaccine Advisory Committee operates a <u>Vaccine Confidence Subcommittee</u> tasked with synthesizing evidence about vaccine confidence and making recommendations
	The Department of Health & Human Services' Office of Infectious Disease and HIV/AIDS Policy vaccine confidence strategy includes three pillars for increasing vaccine confidence across the life course:
	 Collaboration and partnerships
	 Research and evaluation
	 Communication strategies and knowledge dissemination
	• The Centers for Disease Control and Prevention's Vaccinate with Confidence framework aims to strengthen vaccine confidence and prevent outbreaks of vaccine-
	preventable diseases by advancing three pillars:
	 Identifying and protecting communities at risk
	 Empowering families by strengthening parent-provider conversations about vaccines
	 Engaging with stakeholders to contain and responds to the spread of misinformation and myths about vaccines
	 The Centers for Disease Control and Prevention maintains a webpage dedicated to providing information about <u>vaccine safety, common questions, and other</u> resources for general and specific populations (specifically, ethnic and racial groups; immigrants and refugees; and Spanish-speaking individuals)





Table 4: Experiences in Canada with Encouraging Vaccine Acceptance and Addressing Vaccine Hesitancy

Province/Territory	Efforts to Encourage Vaccine Acceptance and to Address Vaccine Hesitancy
Pan-Canadian	A 2016 Public Health Agency of Canada report described strategies for three different population groups (vaccine acceptors, vaccine hesitant, and vaccine
	refusers)
	 Strategies for vaccine acceptors include encouraging resiliency, describing common side effects and rare adverse events, and using verbal and numeric
	 descriptions of disease risks Strategies for individuals who are vaccine hesitant include building rapport and accepting questions and concerns, establishing honest dialogue with
	information about risk and benefits of the disease and vaccine, utilizing decision aids and other information tools, and booking appointments for additional
	discussions
	 Strategies for vaccine refusers include avoiding debates about vaccination, providing opportunities for brief open-ended discussions, informing risks about
	non-vaccination, and offering access to clinical care during adverse events
	<u>Canadian guidance on addressing vaccine hesitancy to help foster vaccine demand and acceptance</u> , includes strategies to detect vaccine hesitancy, skills to
	recognize and diagnose underlying factors in refusal or delay in vaccine acceptance, a guide to tailoring immunization program, strategies to address hesitancy
	and help foster demand, and steps to monitor and evaluate programmes addressing vaccine hesitancy
	The Canadian Paediatric Society created a guidance document for provincial/territorial immunization programs, clinics and office practices on how to address
	hesitancy and improve vaccine acceptance rates o Steps to addressing hesitancy included: 1) detecting under-immunized subgroups, 2) educating all healthcare workers involved with immunization best
	practices, 3) employing evidence-based strategies to increase uptake, 4) educating children, youth and adults on the importance of immunization, and 5)
	working collaboratively across provincial/territorial jurisdictions and with the governments, leaders and health services
	 Companion documents including Working with vaccine hesitant parents: An update and Canada's eight-component vaccine safety system: A primer for
	health care workers were also produced
	• A 2018 consultation study by the Canadian Immunization Research Network found that the diffusion of negative information online and lack of knowledge about
	vaccines were identified as the key causes of vaccine hesitancy amongst participants
	 Based on the study findings, the Canadian Immunization Research Network suggested that a common understanding of vaccine hesitancy among
	researchers, public-health experts, policymakers and healthcare providers will better guide interventions to address vaccine hesitancy in Canada
	 Data from <u>Statistics Canada's Canadian Perspectives Survey</u> found that over half (57.5%) of Canadians were very likely to get a COVID-19 vaccine when it becomes available, and 19.0% reported that they were somewhat likely to get vaccinated
	 Canadians were unlikely to get a COVID-19 vaccine due to a lack of confidence in the safety of the vaccine and concerns about its risk and side effects
	 Approximately one-third of Canadians who said they were unlikely to get vaccinated (34.8%) indicated that they would wait until it seems safe to get the
	vaccine, and 25.9% of Canadians did not consider the COVID-19 vaccine necessary
British Columbia	• A presentation entitled, Vaccine Hesitancy: It doesn't matter if the vaccine works if nobody gets it by Dr. Julie Bettinger from the Vaccine Evaluation Centre at the
	University of British Columbia provided recommendations for healthcare providers to improve vaccine hesitancy, which included maintaining trust, reinforcing the
	role of community immunity, emphasizing pro-social reasons for vaccination and acknowledging diversity by working with culturally specific health promotion
	groups and patient/parent communities
	 A 2017 survey of 1,308 adults in British Columbia found that more than 80% of respondents held positive attitudes towards vaccination The survey also found that policies such as mandatory documentation of vaccination at school entry were supported by more than 70% of respondents and
	that punitive policies such as denial of child tax benefits for non-vaccination were supported by less than 40% of respondents
	 Respondents that had positive attitudes toward vaccination were also more likely to support all potential vaccination policies





Province/Territory	Efforts to Encourage Vaccine Acceptance and to Address Vaccine Hesitancy
	 The findings of this survey point to a majority of adults in British Columbia being supportive of vaccination and of information and requirement policy options to increase vaccination uptake A poll from Angus Reid Institute found that 30% of British Columbians would wait to see how the COVID-19 vaccine worked, or what the side effects were, before getting the vaccine
Alberta	 <u>Alberta's 2020-2021 Influenza Immunization program</u> is focused on increasing the immunization rates for high-risk populations <u>Although targets for immunization of specific high-risk populations are provided, there were no strategies or objectives provided for encouraging vaccine acceptance</u> Despite <u>evidence of growing vaccine hesitancy in the province</u>, promotion of vaccine acceptance by the government of Alberta was found to be minimal
Saskatchewan	 The Saskatchewan Health Authority (SHA) is encouraging influenza uptake for the 2020-2021 season by: <u>Implementing a system-wide response strategy</u> to offer the flu vaccine at every patient/client/resident encounter within the SHA Promoting flu vaccination through their social media with their <u>Twitter</u> and <u>Facebook</u> cover photos (as of Nov 13, 2020) having a "Fight the Flu" theme, and with a number of posts in recent weeks focusing on the importance of flu vaccination
Manitoba	 On <u>15 October 2020</u>, the Premier and Chief Public Health Officer launched the <u>'Add a Layer This Fall'</u> campaign to encourage Manitobans to get the influenza vaccine The campaign includes an interactive map of locations with flu vaccines (including clinics, pharmacies, public health offices) with filters such as walk-in and age limitations Efforts are targeted at high-risk populations and their caregivers
Ontario	 The Government of Ontario's <u>Fall Preparedness Plan for Health, Long-Term Care and Education</u> states that there are actions underway to engage with stakeholders to promote the flu vaccine and run a public-education and targeted flu campaign Prior to the COVID-19 pandemic, the Ontario Medical Association launched the <u>#AskOntarioDoctors</u> social-media and public-information campaign to combat vaccine misinformation and hesitancy
Quebec	 The Ministry of Health in Quebec maintains a website dedicated to <u>demystifying beliefs regarding the risks of vaccination</u> A provincial program (<u>Programme d'entretien motivationnel en maternité pour l'immunisation des enfants (EMMIE)</u>) uses motivational interviewing during mothers' post-partum stay in maternity wards to encourage positive attitudes towards vaccination
New Brunswick	 The New Brunswick Department of Health website features a page on the importance of getting <u>immunized</u>, <u>which</u> addresses topics including how to get immunized and where to find your immunization records <u>Fact sheets</u> on the various immunizations as well as the influenza vaccine outline the benefits of each vaccine, how it is administered and who should receive it An <u>immunization schedule</u> outlining the vaccination and age it is administered is featured on the New Brunswick Department of Health website
Nova Scotia	 The Nova Scotia Department of Health and Wellness website features a chart outlining the immunization schedule for children, youth and adults Due to school closures, Nova Scotia Health offered summer clinics for grade 7 students to receive the HPV, Hepatitis B, Tdap and Meningococcal Quadrivalent vaccines The Nova Scotia Department of Health and Wellness website features a page outlining the importance of protecting yourself from the flu, and a <u>quick facts</u> page outlines who should receive the flu shot, the symptoms of the flu and the number of doses the province has ordered this year The Nova Scotia Department of Health and Wellness posted an image of Health and Wellness Minister Leo Glavine on their <u>Facebook page</u> receiving the flu shot with the hashtag #GetTheShotNS
Prince Edward Island	The Prince Edward Island Department of Health and Wellness website features a page that outlines all <u>childhood immunizations</u> and <u>adult vaccine schedules, as</u> well as a link to download the <u>CANImmunize</u> app which allows people to manage their vaccination records





Province/Territory	Efforts to Encourage Vaccine Acceptance and to Address Vaccine Hesitancy
	Flu shot clinics were <u>opened earlier</u> this year to encourage more islanders to get vaccinated
	 PEI <u>Public Health Nursing</u> is offering flu vaccination clinics at various locations across the province
	 A <u>frequently asked questions</u> page is featured on the Prince Edward Island Health and Wellness website answering questions regarding who should receive the flu vaccine and which vaccine is available this season
Newfoundland and	 The Newfoundland and Labrador Health and Community Services Department website features a page on immunizations outlining how children are immunized
Labrador	in the province as well as how to receive a copy of their immunization record, as well as <u>fact sheets</u> detailing information about each vaccine are available on this page and a chart outlining the <u>vaccination schedule</u>
	 A news release by Newfoundland and Labrador Health and Community Services outlines several initiatives to encourage people to get the flu shot A new online booking tool called Health Myself was created to schedule a flu shot appointment
	 A grant is available to companies with over 100 employees to hire a qualified healthcare provider to offer a vaccination clinic within the workplace School districts and private schools will be offering the flu vaccine for students in grades 4 to 12 with parental consent
	 The Government of Newfoundland and Labrador created a website called, <u>Time For The Shot</u> that outlines information about the flu shot as well as resources for employers and health care professionals
Yukon	Yukon Health and Social Services created a website called <u>Yukon Immunize</u> , which contains:
	 Yukon children's immunization schedule and information on grade 6/9 school-based immunization
	 Immunization information sheets that describe any potential side effects associated with vaccines and how to relieve them
	 Answers to <u>common questions</u>, including questions relating to vaccine hesitancy (e.g. that immunizations are safe, do not weaken the immune system, do not cause chronic conditions)
	 In April 2020, the Yukon Immunization Program (community health program) created <u>a video</u> about the importance of not delaying the childhood immunization schedule during COVID-19, including safety measures that are being taken to ensure that patients feel safe when attending their appointments
	The Yukon Immunization Program Manual (Section 1- Introduction) discusses the role of healthcare providers in delivering education about vaccines and
	increasing their uptake
	 Section 3.0 (Immunization Competency) states that the Yukon Immunization program assists all healthcare professionals who provide immunizations to be knowledgeable vaccine providers, educators and advocates
	 Section 5.0 (Relative Risks of Diseases and Immunization) addresses the shift in public and mass-media concerns toward vaccine safety, and contains guidelines for providers for communicating effectively with parents and individuals regarding the risks and benefits of immunization
	 The Immunization Communication Tool for Immunizers is approved by the Yukon Immunization Program for use by providers to help in addressing parent concerns about immunizations
	 The <u>Yukon Immunization Program Manual (Section 3- Immunization Schedule)</u> recommends that healthcare providers use each client contact as an opportunity to review their immunization status and administer all vaccines that the client is eligible for (including available vaccines that are not currently publicly funded)
	 Yukon's 2020 influenza vaccine campaign features public education and engagement
	 Yukon Health and Social Services created a video that explains key dates, COVID-19-related changes and addresses vaccine hesitancy
	 The video also asks the public to think about why they get the flu shot, which led to a follow-up video featuring community members and a Facebook
	campaign to engage the public
Northwest	• The Government of Northwest Territories Health and Social Services Department (DHSS) website has an immunization/vaccination page that provides public
Territories	information, including:
	 A poster version of its <u>immunization schedule</u>
	 Vaccine information sheets, which contain information about the disease, who should get the vaccine and any potential risks/reactions





Province/Territory	Efforts to Encourage Vaccine Acceptance and to Address Vaccine Hesitancy
	The DHSS promotes National Immunization Awareness Week and the CANImmunize app on their website
	The DHSS has a station on SoundCloud called HSS Communications that plays music with interspersed public-health messages
	 In 2016, there was a message titled Get Vaccinated! that was played in English, Chipewyan, Gwich'in, North Slavey, South Slavey and Tlicho
	• The message targeted parents and spoke about the importance and safety of vaccines
	The <u>NWT COVID-19 Pandemic Planning Guide</u> contains a communication plan that involves the DHSS, HSS Authorities and the Government of Northwest
	Territories Territorial Planning Committee
	 Though not specific to communications relating to a vaccine, it states that the DHSS is the lead on all public communications and messaging about COVID- 19 during the pandemic
	• In January 2020, the Canadian Pediatric Society hosted a workshop in Northwest Territories which trained front-line healthcare workers on how to manage
	parental hesitancy to vaccines
Nunavut	The Nunavut Department of Health website features a page on Influenza, which contains information about the disease and vaccine, including:
	 A Flu Fact Sheet, which is offered in four languages, and encourages people to get the flu vaccine to prevent infection and spread
	 A <u>Flu Myths and Facts Sheet</u>, which addresses numerous vaccine-related hesitancies
	• The Nunavut Department of Health has used public-service announcements to encourage individuals to get the flu vaccine, and to inform the public of key dates
	relating to vaccine delivery
	 Advertisements for booking flu shots and clinic information can be found on the <u>Government of Nunavut Facebook page</u>
	 The Nunavut Department of Health website features a page on <u>childhood immunization</u>, which contains information on <u>immunization programs</u> and the
	immunization schedule
	 This page also links to the Public Health Agency of Canada document <u>A Parent's Guide to Immunization</u>, which addresses vaccine-related hesitancies
	Section 8 (Setting up Clinics) of the Government of Nunavut Immunization Manual provides strategies for healthcare providers to keep children on the
	immunization schedule, including assessing immunization opportunities at every clinic visit, keeping track of children in the community and educating patients
	and guardians on the benefits of immunization and the risks of contracting vaccine-preventable diseases
	<u>Section 8 (Setting up Clinics) of the Government of Nunavut Immunization Manual</u> provides guidance for setting up a community immunization clinic, which are
	most commonly used in Nunavut for the seasonal influenza program and in pandemic situations
	 To increase use of the centres, the manual suggests that it is important to inform key community stakeholders of the clinic and its purpose
	 It is also suggested to have language specific signs, pamphlets and media coverage to provide accurate information on the location and purpose of the clinic