

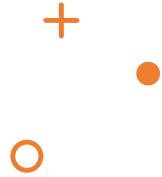
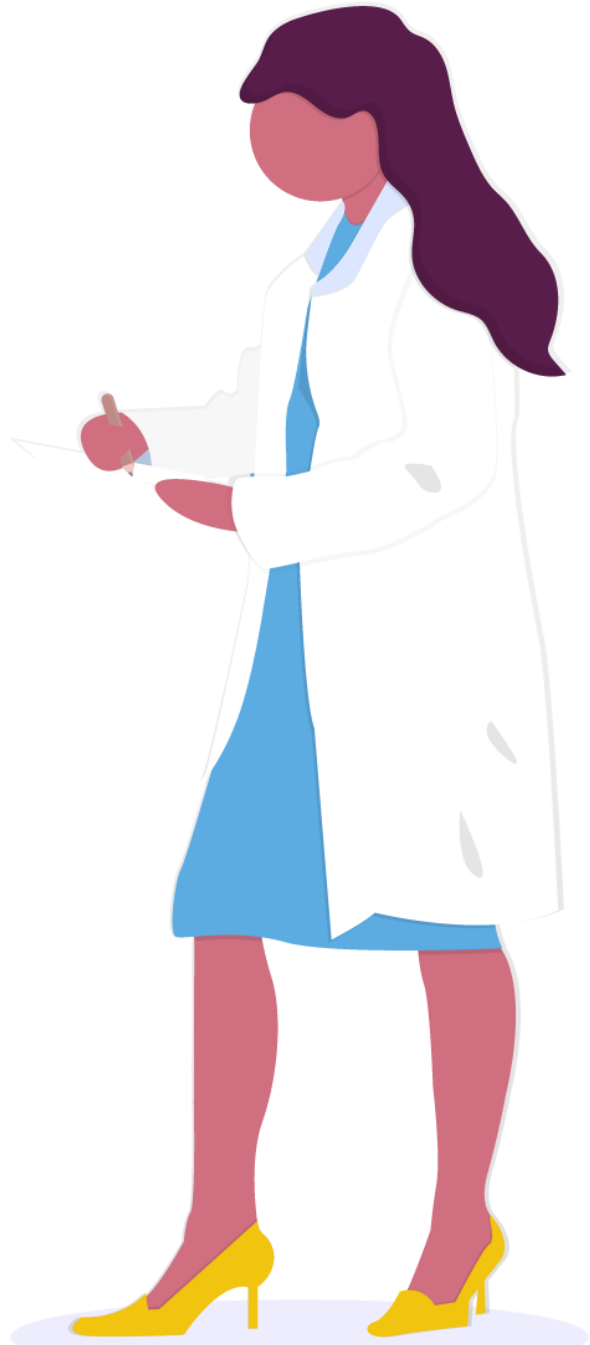
Exploring Education to Support Vaccine Confidence Amongst Healthcare and Long-Term Care Staff Amidst the COVID-19 Pandemic: A Living Scoping Review

ILPN 2022 Conference

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Maya Murmann, MSC

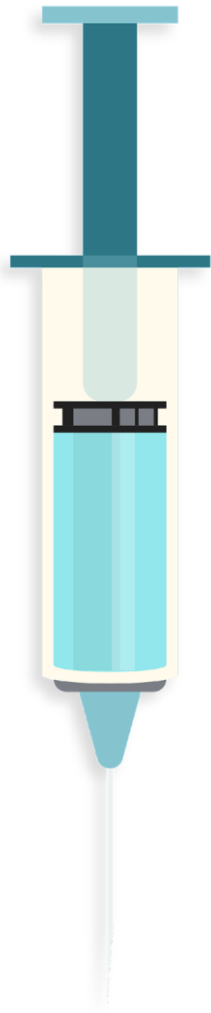
Anna Reed, MSW, RSW

BACKGROUND

- The **vaccination of healthcare workers** against COVID-19 has been a top priority
- High levels of **vaccine hesitancy** among long-term care workers
- Vaccine hesitancy is a **complex and context-specific issue**

(Government of Canada, 2020; Desveaux et al., 2021; Sinha et al, 2021)





RATIONALE

- Few strategies to increase vaccine confidence have been **formally evaluated**
- Few interventions to address vaccine hesitancy are **evidence-based**
- The majority of interventions rely on **assumption-based approaches**

(Kumar et al., 2021; Jarrett et al., 2015)

OBJECTIVES

To identify and describe COVID-19-specific educational interventions that have been introduced to improve vaccine confidence, **paying particularly attention to those targeting the healthcare workforce.**

Research Questions:

1. What educational interventions have been developed to encourage COVID-19 vaccine uptake and support vaccine confidence during the COVID-19 pandemic?
2. What are the characteristics of these interventions?
3. What characteristics, if any, could be applied to educational interventions targeted at the health and long-term care workforce?

METHODS

Types of Education

- **Formal education:** guided or systematic, rigid curriculum and is delivered in “formal institutions”
- **Informal education:** unstructured or opportunistic interactions that take place outside of formal training and are “in the control of the learner” (Spaan and colleagues)

(Feng et al., 2017 & Spaan et al., 2016)

METHODS

1

Inclusion Criteria

- All study designs including primary research studies, systematic reviews, opinion pieces, short reports etc.
- All populations (beyond health and long-term care) and geographies
- COVID-19 vaccine education

2

Exclusion Criteria

- Educational resources or tools with no clearly described delivery interaction
- Education delivered to children and adolescent populations
- non-COVID-19 related vaccine education

Search Strategy, Screening, Extraction



Academic

- Ovid MEDLINE®; In-Process & Other Non-Indexed Citations; Embase Classic+Embase; APA PsycInfo; CINAHL (Ebsco); Web of Science.



Screening

- Titles and abstracts screened independently by two reviewers
- Full texts of potentially eligible screened by two reviewers



Grey Literature

- CADTH's Grey matters; Cochrane COVID-19 Study Register; Covid-END
L-OVE; LTCcovid.org; UNCOVER;
The COVID-19 resources from
ClinicalTrials.gov; WHO COVID-19 Database



Data Extraction

- Data from each included study was extracted by one reviewer
- Data extraction tool developed by the research team and refined following the extraction of a small number of studies

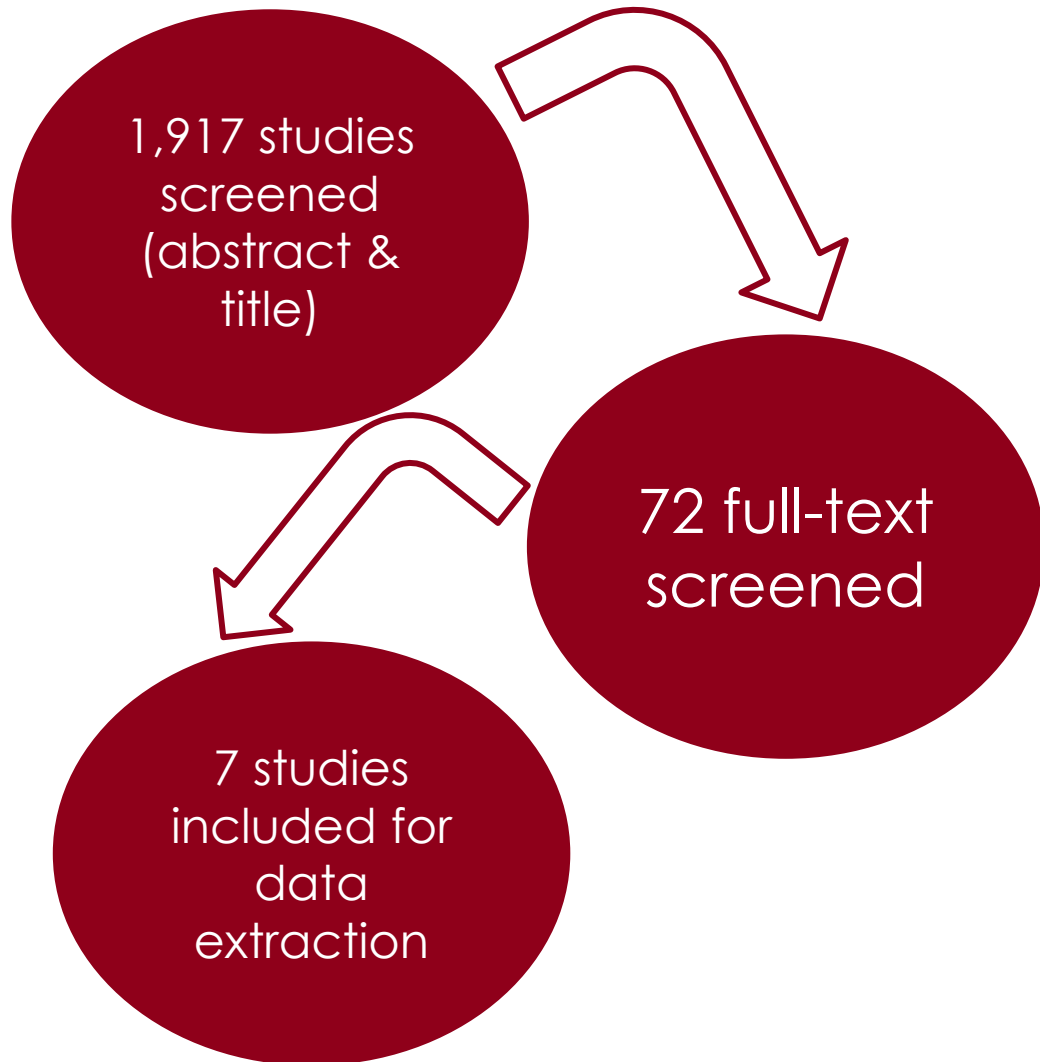
Data Extraction Sheet

Component	Sections
Article Characteristics	<ul style="list-style-type: none">• Authors• Country• Publication type• Publication date
Educational Format	<ul style="list-style-type: none">• Objective of education• Type of education• Additional interventions• Virtual or in person• Group or individual• Frequency• Train the trainer
Audience and Facilitators	<ul style="list-style-type: none">• Target audience• Facilitators• Diversity considerations• Multiple languages• Consideration of trust• Consideration of personal connections

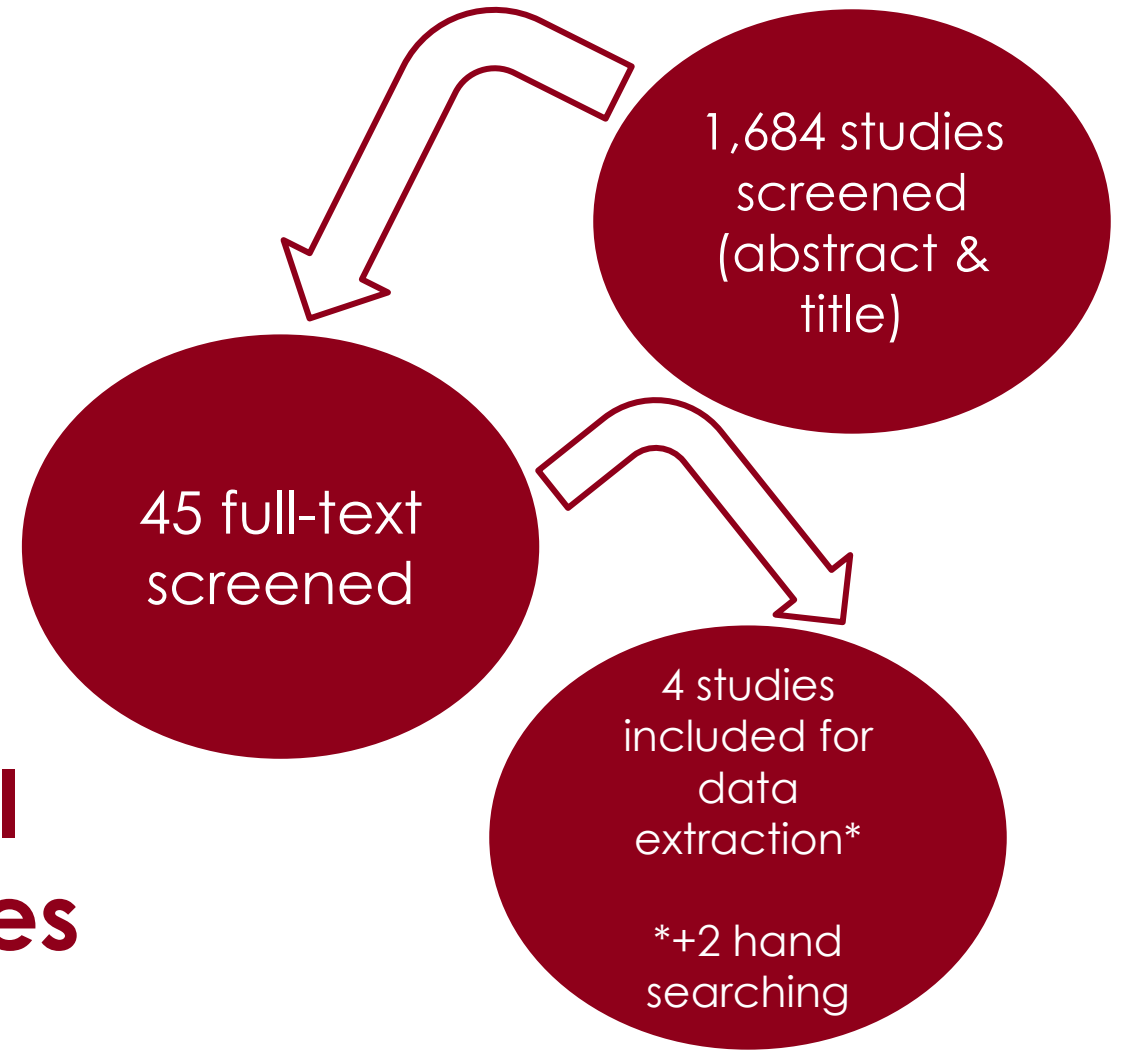
Component	Sections
Content	<ul style="list-style-type: none">• Key information• Myth busting• Ability to ask questions• Personal stories
Evaluation	<ul style="list-style-type: none">• Study design• Evaluation metrics• Results

Results

Academic Literature



Grey Literature



**Total
Articles
=13**

Section 1. Delivery Format

- Presentations were most frequently employed type of educational intervention (**n=11/13**)
- The majority of education was provided exclusively virtually (**n=7/13**)
- **Two studies** provided exclusively in-person education
- **Three studies** employed a train-the-trainer approach

Study	Presentation	Other
<i>Kelkar et al.</i>	✓	
<i>Moberly</i>		<i>Phone call and engagement events</i>
<i>Abdel-Qader et al.</i>	✓	
<i>Berry et al.</i>	✓	
<i>Peteet et al.</i>	✓	
<i>Talmy et al.</i>	✓	<i>Primary care visit and consultation</i>
<i>Traynor</i>	✓	
<i>Takamatsu et al.</i>	✓	<i>Consultation</i>
<i>Gakuba et al.</i>	✓	
<i>Feifer et al.</i>	✓	<i>One-on-one conversation</i>
<i>Quinn and Andrasik</i>	✓	<i>Small group discussions and one-on-one conversations</i>
<i>NHS England</i>		<i>Phone call</i>
<i>NICE</i>	✓	

Section 2. Audience

	<i>Minority Communities</i>	<i>Other Communities</i>	<i>Patient Group</i>	<i>Healthcare Workers</i>
<i>(23) Kelkar et al.</i>			✓	
<i>(26) Moberly</i>		✓		
<i>(34) Abdel-Qader et al.</i>		✓		
<i>(27) Berry et al.</i>				✓
<i>(35) Peteet et al.</i>				
<i>(32) Talmy et al.</i>	✓			
<i>(28) Traynor</i>		✓		
<i>(29) Takamatsu et al.</i>		✓		✓
<i>(24) Gakuba et al.</i>				✓
<i>(33) Feifer et al.</i>				✓
<i>(30) Quinn and Andrasik</i>	✓			✓
<i>(31) NHS England</i>	✓			
<i>(25) NICE</i>	✓			

Section 2. Facilitators

	<i>Healthcare Professional</i>	<i>Faith Leaders</i>	<i>Community Leaders</i>	<i>Academic Leaders</i>
<i>(23) Kelkar et al.</i>	✓		✓	
<i>(26) Moberly</i>	✓	✓	✓	
<i>(34) Abdel-Qader et al.</i>	✓			✓
<i>(27) Berry et al.</i>	✓			✓
<i>(35) Peteet et al.</i>	✓	✓	✓	✓
<i>(32) Talmy et al.</i>	✓			
<i>(28) Traynor</i>	✓			
<i>(29) Takamatsu et al.</i>	✓			
<i>(24) Gakuba et al.</i>	✓			
<i>(33) Feifer et al.</i>	✓			
<i>(30) Quinn and Andrasik</i>	✓			
<i>(31) NHS England</i>	✓			
<i>(25) NICE</i>	✓	✓	✓	

Section 3. Content



Myth Busting

- Strategy identified in 5 studies to correct misconceptions & dispel myths and fears



Q&A

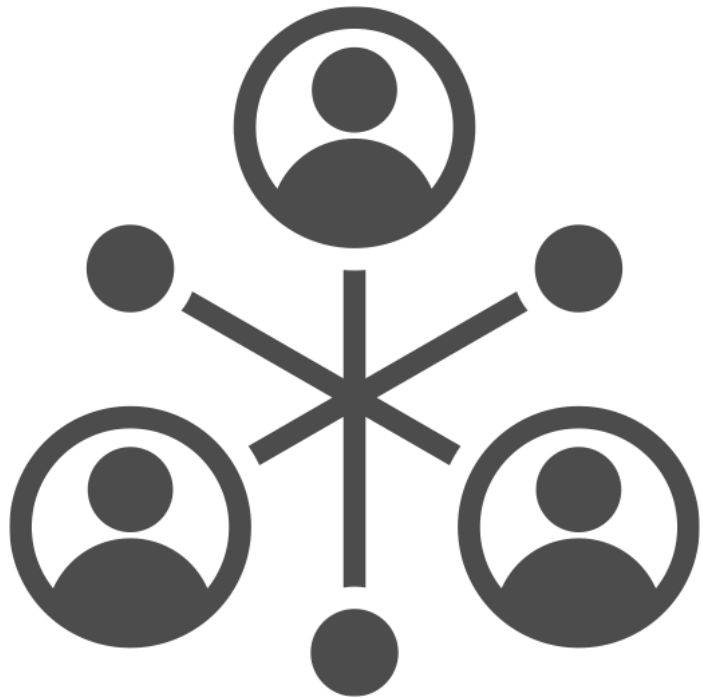
- Allowed for the dissemination of targeted information to address specific concerns or questions



Personal Stories

- Sharing of a facilitators' personal decision-making process in receiving the COVID-19 vaccine and eliminating their own hesitancy

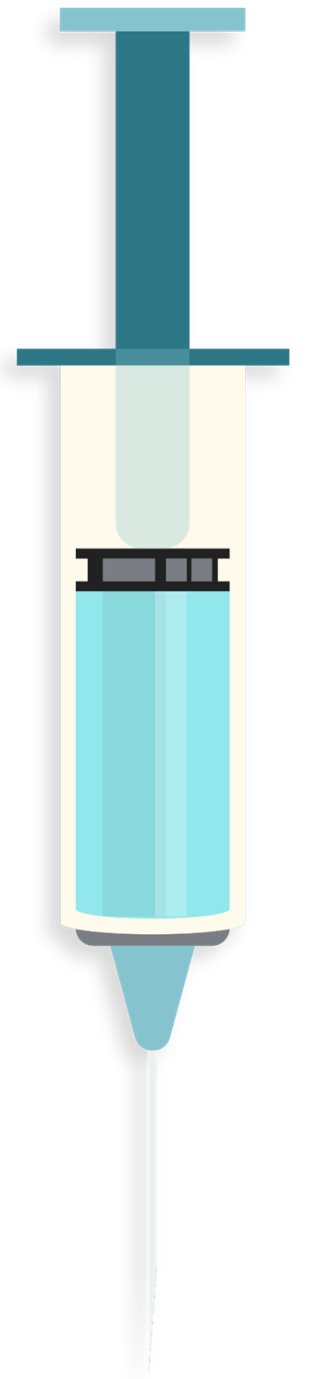
How does this impact the health and LTC workforce?



- Foreign-born workers are over-represented in the LTC sector in OECD countries
 - Trusted figures will be important
 - Linguistically and culturally representative
- How do you disseminate mass education that needs to be personally tailored?
 - Train the trainer?
- Implementation of vaccine mandates

Next Steps

1. Round 2 of scoping review
 - a. Conducted in February, 2022
 - b. Abstract/title screening & full-text screening completed
 - c. Currently in data extraction
1. Opportunity for comprehensive evaluations of educational interventions
1. Continued consultation with Nurse Practitioners and Long-Term Care partners





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