

Assessing the barriers to and reasons for intention to vaccinate against COVID-19 among United States adults: A scoping review

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Vaccine Hesitancy

Defined: Delay in or refusal of vaccine acceptance despite availability of vaccination services.

Classified as a **top ten threat to global health.**



World Health
Organization

Understanding hesitancy is a prerequisite in **addressing** hesitancy.

Scoping Review Objective

*Assessing COVID-19 vaccination intention in
the United States' adult population.*

Distinctive Qualities of our Scoping Review:

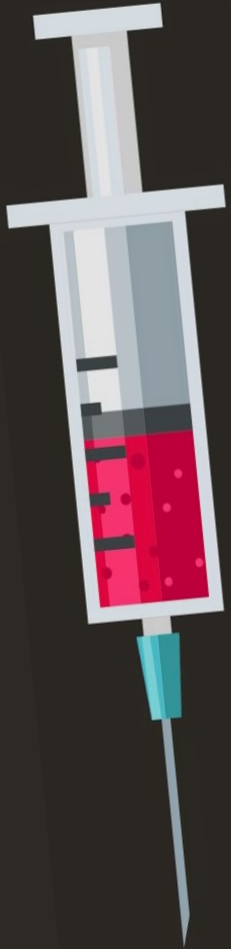
1. **Lens of Temporality:**
December 11th, 2020
2. **Lens of Psychological Antecedents:**
5 C Scale (Betsch, 2020)



The Five C Scale (Betsch et al)

Psychological Antecedents of Vaccination Intentionality

- C**onfidence: in vaccine
- C**onstraints: in obtaining it
- C**omplacency: of risk
- C**alculation: of options
- C**ollective Responsibility: in protecting others



Literature Search



1. Behavioral Terms

"Treatment Refusal"
"Vaccination Refusal"
"Patient Acceptance of Health Care"



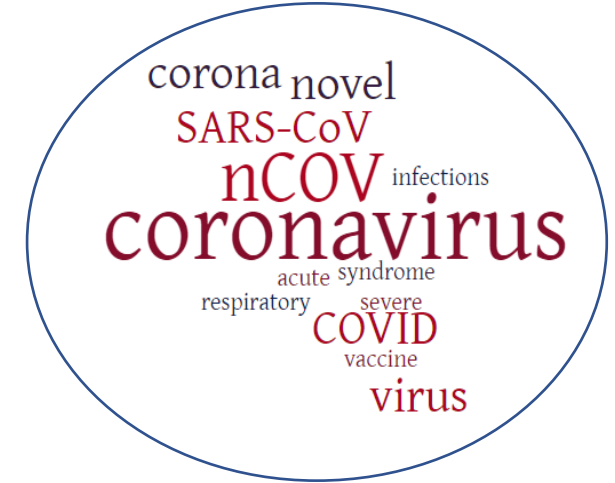
2. Vaccination Terms

"Vaccination"
"Immunization"



3. COVID-19 Terms

"coronavirus infections"
"covid-19 vaccines"
"SARS-CoV-2"
"COVID-19"



5 Databases:

PubMed/LitCOVID, PsycINFO, Embase, CINAHL & OVID Medline



N = 5693

Screening

Inclusion Criteria:

Quantitative
Mixed-Methods
COVID-19 Vaccination Intentionality
COVID-19 Vaccination Hesitancy
Adult Population
United States Population
Global Population with U.S. Adult Data

Exclusion Criteria:

Observational
Social Media Emphasis
Pediatric Population
Languages Other than English
Interviews with no Transcript



Identification

Studies Identified Through
5 Databases
n = 5693



Databases:
PubMed/LitCovid
Psycinfo
Embase
Cinah
Ovid/Medline



Screening

After Deduplication Algorithms:
N = 5330



Exclusion Criteria:
Observational Design
Social Media Studies
Pediatric Population
Languages Other than English
Audio Interviews with no Transcript



exclusion tags used in covidence:
no quantitative data (n=206)
country of origin other than the u.s. (n=90)
wrong emphasis (n=55)
wrong outcomes (n=9)
wrong study design (n=7)
wrong population (n=7)
language other than English (n=3)

Eligibility

After Screening Titles & Abstracts:
N=671



Inclusion Criteria:
Quantitative Design
Mixed-Methods Design
COVID-19 Vaccination Intention
COVID-19 Vaccination Hesitancy
Adult Population
U.S. Population
Global Study with U.S. Data Separated

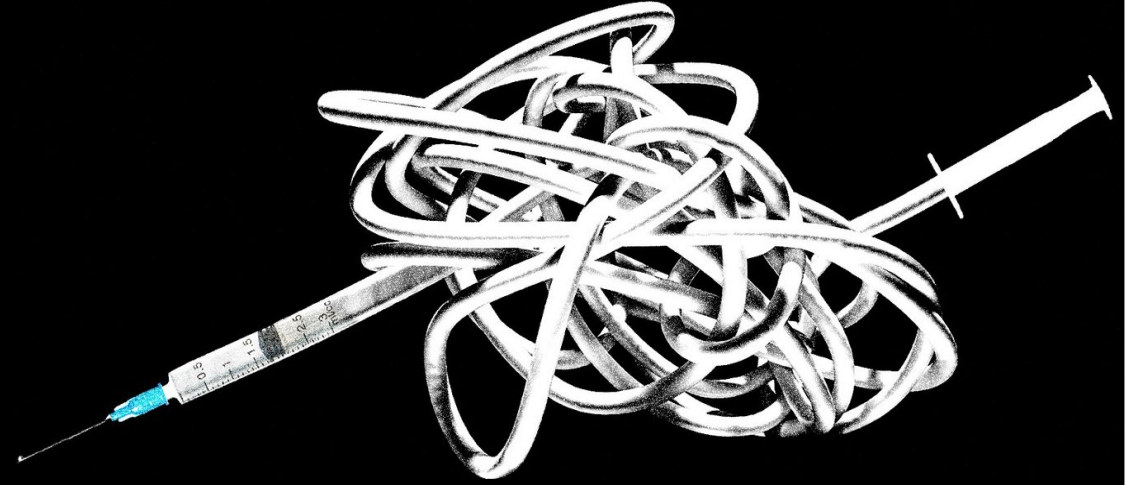
Inclusion

After Full-Text Review:
N=261



PRISMA flowchart of study inclusion

Preliminary Results

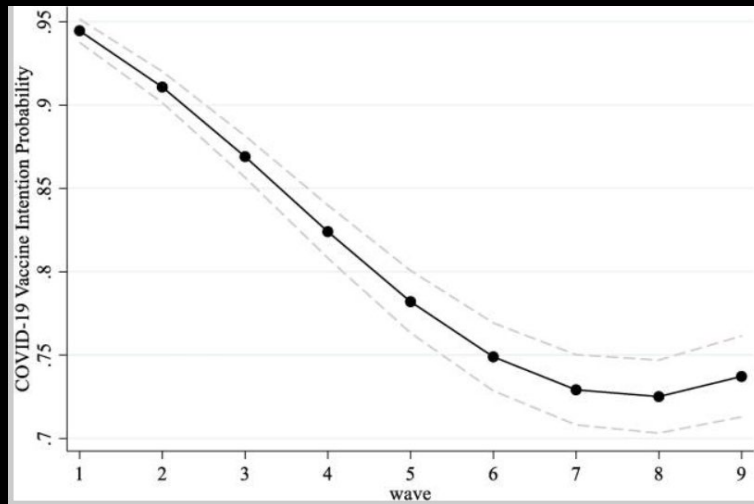


Decrease in intentionality after December 11th

Hypothesized that **confidence** accounts for this trend:

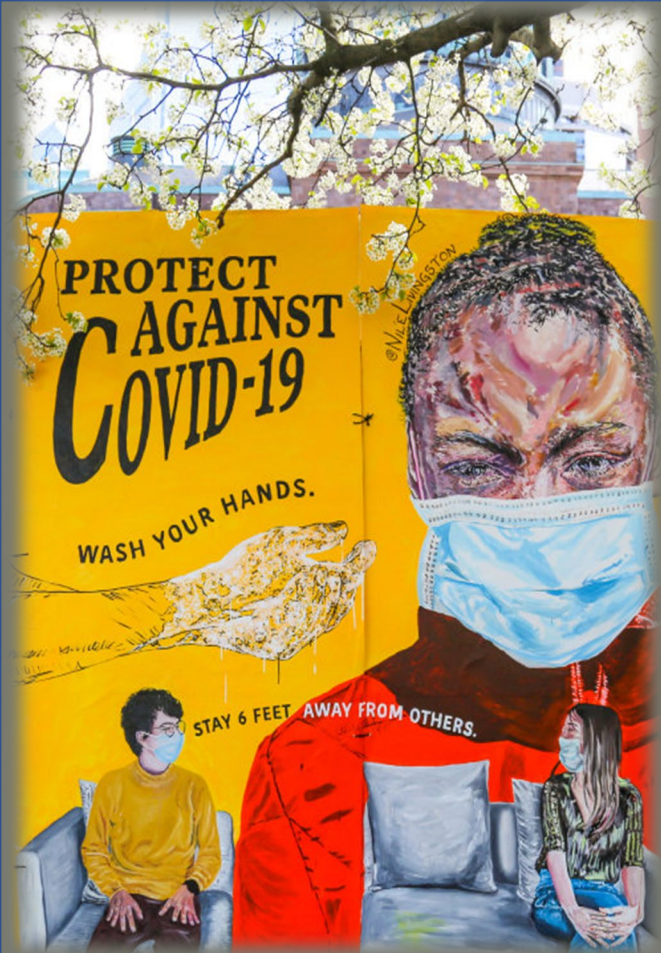
Entrenched in flawed perceptions in vaccine's:

- Efficacy
- Development
- Implementation



Niño, et al., 2021

Conclusion



Acknowledgements



Kindly direct additional questions and comments to Dr. Purnima Madhivanan: pmadhivanan@arizona.edu

