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.
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

Confidence: in vaccine
Constraints: in obtaining it
Complacency: of risk
Calculation: of options
Collective Responsibility: in protecting others
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
Studies Identified Through 5 Databases  
\( n = 5693 \)

After Deduplication Algorithms:  
\( N = 5330 \)

After Screening Titles & Abstracts:  
\( N = 671 \)

After Full-Text Review:  
\( N = 261 \)

**Databases:**
- PubMed/Litcovid
- Psycinfo
- Embase
- Cinah
- Ovid/Medline

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

**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

**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)
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