

A Multimodal Approach to Decreasing Hesitancy and Increasing Uptake of the COVID-19 Vaccine in the Family Care Setting

Meghan Zwierzynski BSN, RN

College of Nursing and Health Professions, Valparaiso University

Significance of Problem

- As of April 27, 2022 there have been **80,874,929 cases** of COVID-19 in the US, resulting in **988,991 deaths** (CDC, 2022)
- Rates of cases and deaths have slowed since discovery of COVID-19 vaccine
- Of the US population, only **66.1% is fully vaccinated** against COVID-19 (CDC, 2022)
- Interventions are needed to **decrease hesitancy and increase uptake** of the COVID-19 vaccine

PICOT Question

For adults 18 years of age and older in a family care setting (**P**), does a multimodal intervention (**I**), compared to no intervention (standard of care) (**C**), decrease hesitancy and increase uptake of the COVID-19 vaccine (**O**) over a 10-week period (**T**)?

Evaluation

Primary Outcome: COVID-19 vaccination status

- Outcome data collected by EMR review and follow-up phone call
- Following implementation, the COVID-19 vaccination status **increased by 5.6% (3/54)**
- Change in uptake was **not statistically significant**

Review of Literature

Evidence	Database/Source	LOE/Quality
Khanh-Dao Le (2021)	JBI	I ^a /A ^b
Sai Sivapuram (2021)	JBI	I ^a /A ^b
Kaufman et al. (2018)	Cochrane	I ^a /A ^b
Thomas & Lorenzetti (2018)	Cochrane	I ^a /A ^b
Jacobson Vann et al. (2018)	Cochrane	I ^a /A ^b
Canadian Paediatric Society (2018)	TRIP	I ^a /A ^c
NICE (2018)	TRIP	I ^a /A ^c
Jaca et al. (2018)	MEDLINE	I ^a /A ^b
Sanftenberg et al. (2019)	MEDLINE	I ^a /A ^b
Reno et al. (2018)	CINAHL	II ^a /B ^b
Ho et al. (2019)	CINAHL	II ^a /B ^b

Best Practices

- **Written patient reminders**
 - Letters, postcards, brochures
- **Electronic patient reminders**
 - Phone calls, text messages, emails, patient portal or EMR messages
- **Patient education**
 - Written materials, face-to-face
- **Provider education**
 - Training or informational sessions

Implementation

- **Who?** → Adults 18 years and older (N=54) who visited the clinic and had not received any dose(s) of the COVID-19 vaccine
- **What?** → Multimodal intervention consisting of provider education, informational brochure & patient reminder card
- **When?** → A 10-week implementation period from October to December 2021
- **Where?** → Community owned, nonprofit family care clinic, which is part of a larger healthcare system, in Northern Indiana

Conclusion and Recommendations

- Multimodal intervention was not effective at decreasing vaccine hesitancy and increasing uptake of the COVID-19 vaccine
- Increasing the COVID-19 vaccination rate is necessary to end the global pandemic
- More research is needed on effective interventions for decreasing hesitancy and increasing uptake of the COVID-19 vaccine
- As more knowledge and information becomes available regarding the COVID-19 vaccine, results of the project may improve

^aMelnyk & Finout-Overholt; ^bCASP; ^cAGREE II

