

A Quality Improvement Intervention on Human Papilloma Virus Vaccination in a Pediatric Clinic

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This project is in partial fulfillment of the degree requirements for the Doctor of Nursing Practice at Touro University Nevada

Introduction

- Human Papilloma Virus (HPV) - most common sexually Transmitted Infection (STI)
- HPV related cancers are increasing every year
- HPV Vaccination- the effective method of prevention
- HPV vaccination rate is not meeting the national goal of 75%
- Project Aim is to improve HPV vaccination rate at the project site

Background

- Improving vaccination rate is essential to reduce HPV related cancers and other diseases
- CDC recommends HPV vaccination as important as other vaccinations
- Available vaccines are Gardasil, Gardasil 9, and Cervarix
- Gardasil 9 is the only vaccine used in United States
- Advisory Committee on Immunization Practices (ACIP) recommends vaccination to children and adult from age 9-26 years

Problem Identified

- HPV cause cervical , anal, vaginal, vulvar, penile, and oropharyngeal cancers
- Only way to prevent is through HPV vaccination
- Lack of knowledge regarding HPV vaccination Among:
 - ❖ Parents
 - ❖ Providers
 - ❖ Employees
- HPV vaccination is not mandatory in majority states in United States
- Parent refusal to give vaccination to children
- Project site vaccination rate is only 51%, National standard is 75%

Project Purpose

- Educate the significance of HPV vaccination to Providers, and office staff
- Fill the knowledge gap among the parents and Health care Professionals (HCP) on HPV vaccination
- Knowledge transfers to parents and young adults to overcome the barriers in HPV vaccination
- Improve vaccination rate at the project site

Project Objectives

In the timeframe of this DNP Project, the host site will:

- ❖ Administer education seminar for the providers and office staff
- ❖ Demonstrate advance knowledge regarding HPV vaccination
- ❖ Improve provider compliance with National standards for HPV vaccination
- ❖ Improve HPV vaccination rate by 80% within a four-week time frame

Project Question

“In providers caring for pediatric patients in the clinic, does the implementation of an evidenced based HPV vaccination education protocol, compared to current practice, improve HPV vaccine offerings to all eligible patients, in a four-week time frame?”

Literature Review

- Literature exploration - to further support and foundation
- CINAHL, Pub Med, Pro Quest, Consort, Care Guidelines
- Facilitated to understand the knowledge gap
- Filled the gap between the evidence and current practice

Population of Interest

- Direct population of interest:
 - ❖ Providers
 - ❖ Medical Assistants (MAs)
 - ❖ Medical Office Assistants (MOAs)
- Indirect population of interest:
 - ❖ Parents
 - ❖ Pediatric patients

Setting

- Setting for this project is a private owned pediatric clinic at Southern Texas
- Approximately 60 patients seek medical care daily
- Main stakeholder is the pediatrician who owns the clinic

Interventions

- Pre implementation stage – email was sent to all participants regarding the location, date, and time of the education
- Education session was done during lunch time using the power points, and hand outs were given to all participants
- Flyers were kept at treatment rooms, and staff lounge
- Project was implemented on the second week
- Pre intervention data collection was done to compare the pre and post intervention vaccination rate

Project Implementation

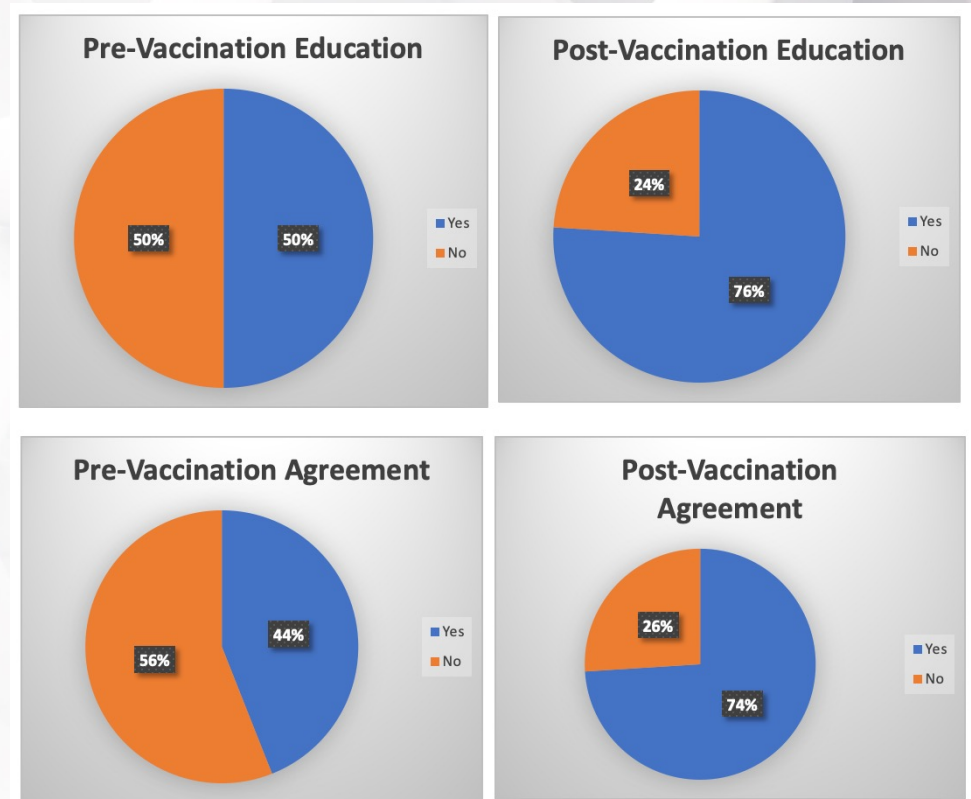
- Week 1 - Education session
- Week 2 – Project Implementation
- Week 3- Continued support from the project lead
- Week 4- Final data collection
- Week 5 – Data Analysis – 50 charts

Ethics/ Human Subjects Protection

- Confidentiality maintained throughout the project implementation
- No patient identifications were used for the data collections
- Code numbers were assigned for each set
- Data entered and the computer was locked with secured password.
- Participation was voluntary training for employees

Result

Chi-Square Test was performed to compare the independent variables (Vaccination education and vaccination acceptance)



Significance to the Project Site/ Nursing Practice

- This project is very useful for nursing practice
- Nurses have significant role in prevention of HPV related diseases by providing vaccination education
- Evidence from this project can be used to improve the HPV vaccination rate
- This project will be implemented to other branches of this project site.

Conclusion

- Evidence from this project confirmed that enhanced knowledge of the providers and office staff significantly improved HPV vaccination rate.
- Sustainability - Continued support will be given to the project site, and this project will be implemented to the other branches of the project site.
- Dissemination- Presentation will be done at South Texas college, poster presentation at 2023 OADN conference, and Hidalgo county community education center.

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