

Addressing Vaccine Hesitations with an Education-Based Booklet

Andrew Armstrong DNP, Monika Endredi DNP, FNP-BC and Shannon Munz DNP, FNP-C

Purpose

- The aim of this project was to help address the growing problem of vaccine preventable diseases

Background

- Vaccine preventable diseases remain a problem despite affordable and easy access to vaccines in the United States
- 1044 cases of measles have been reported in 2019 from January 1 to June 13, 2019
- Influenza kills an average of 12,000 – 79,000 people per year in the United States
- Lack of evidence-based information, distrust, and fear regarding vaccines has led to decreased vaccination rates

Methods

- Design:** Vaccine booklet made available to providers in clinic
- Sample:** Caregivers of patients ages birth-18 years meeting inclusion criteria
- Settings:** USF Health Internal Medicine and Pediatrics Clinic
- Instruments:** EBP vaccine booklet (A Parent's Guide to Understanding Vaccines)
- Data Management and Analysis:** Vaccine rates measured via EMR by category from March through May, 2019



Result

- Post intervention, an overall increase in vaccination rates were demonstrated
- Total vaccinated increased from 622 to 668 patients over three months
- The following results portray the relative difference in vaccine rates:

Vaccine	March, 2019	May, 2019	Relative Difference
MMR	47	77	63.83%
IPV	78	91	16.67%
DTaP	158	165	4.43%
Meningococcal	30	42	40%
HPV	6	9	50%

- In an informal interview, providers reported that the vaccine booklet was a valuable tool
- Parents voiced their appreciation for having this information provided to them in an easy-to-read and comprehensive format

Discussion

- By providing evidence-based information regarding vaccinations in an easy-to-read booklet, parents can make a more educated decision regarding vaccines
- The immunization booklet is a parent friendly, easy to understand resource to help recognize the value of vaccines
- The vaccine booklet is now being expanded throughout USF Health and implemented at the 17 Davis clinic
- Further data collection and analysis is warranted in future assessments to measure effectiveness of the teaching material
- Recommendations to assess for further parent understanding should include a pre and post survey tool

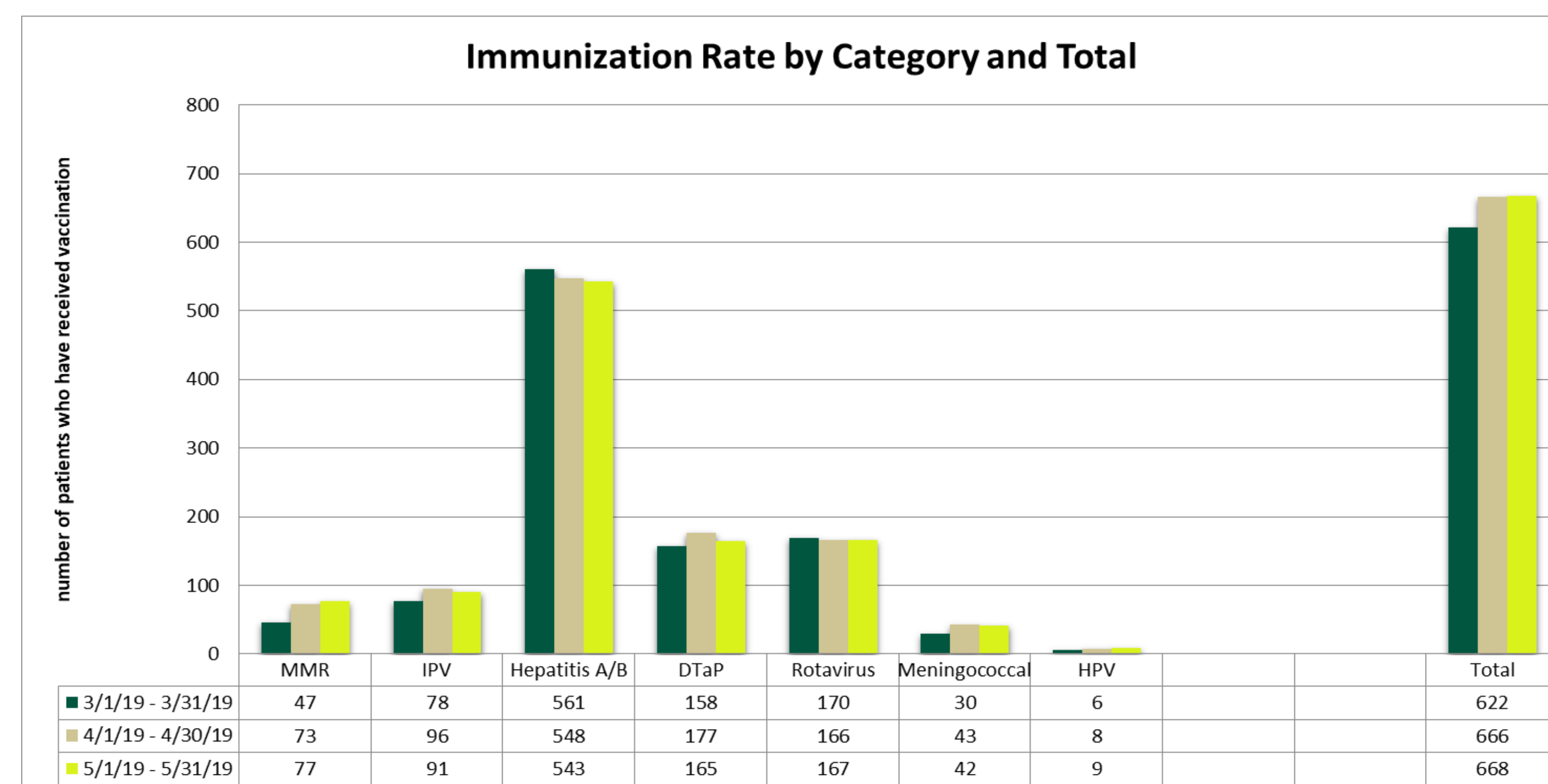
Booklet Development

- A widespread literature search revealed causes of vaccination refusals and effective modes of teaching
- Branding through USF Marketing for distribution throughout USF
- Consultation with USF Health providers for most useful content

Limitations

- Vaccination results may not be reflective of booklet education due to factors such as:
 - The booklet was not mandated at USF Health therefore distribution of pamphlet could not be controlled
 - Increased positive scores may not be reflected due to patients that have left USF Health who have received education and subsequent vaccinations
 - Unable to control for patients who have aged out of inclusion criteria during three-month period of data collection

“The booklet got a vaccine hesitant mom to vaccinate her children”
“This is a great tool that I can use to help communicate with my patients”
“I can notice the impact this is making in my ability to get parents to vaccinate”
 - USF Health providers



Acknowledgment

For continued support and mentorship throughout the project, special thanks to:

- Dr. John McCormick
- Dr. Sharlene Smith
- Dr. Marcia Johansson
- Dr. Denise Maguire

References

Available upon request.

