

UVM ScholarWorks

Mapping Pediatric Vaccination Schedule

Item Type	Presentation;Presentation
Authors	Exume, Mialovena C
Download date	2026-06-05 23:14:58
Item License	http://creativecommons.org/licenses/by/4.0/
Link to Item	https://hdl.handle.net/20.500.14849/2552

Mapping Pediatric Vaccination Schedule

Community Health Center Burlington- Riverside

Mialovena Exume

Family Medicine Clerkship: March- April 2022

Project Mentors: Michelle Dorwart, MD, MPH; Grace Zimmer, FNP; Kayla Massena

Problem Identification

- ❑ Parents/Guardians report not feeling completely comfortable and knowledgeable about their children's vaccination schedule
- ❑ There is no succinct document that highlights what pediatric vaccines are needed and what they are used for.
- ❑ Parental vaccine hesitancy is becoming an increasingly important public health concern in the United State
 - ❑ a 2019 national survey found that approximately 1 in 4 parents reported serious concerns towards vaccinating their children ³
- ❑ Although Community Health Center Burlington (CHCB) is above the state average for childhood vaccinations needed by age two, families still desire a tangible way to track and record their child's vaccinations⁴

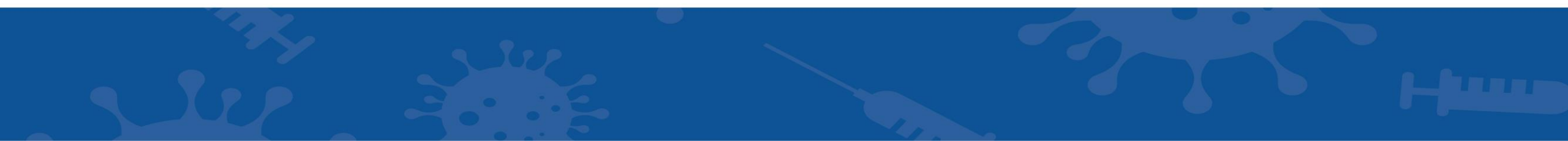


Public Health Costs

- ❑ The annual incidence rates per 100,000 of various diseases in prevaccine era has significantly decreased with vaccination introduction⁵
 - ❑ Diphtheria: 600 pre vaccine, 0 with vaccination
 - ❑ Hib: 158 pre vaccine, 0.2-0.3 with vaccination
 - ❑ Polio: 31 pre vaccine, 0 with vaccination
- ❑ According to a study by the CDC in 2013, the cost per hospitalization for pediatric disease that have targeted vaccines ranges from \$3,195-\$62,223 with some illness having a 100% of requiring hospitalization⁵
- ❑ The cost for administering a vaccine dose during a visit to a private clinic was estimated at \$29.07 and for the public clinic \$8.15⁵

Community Perspective

- ❑ Britany LaClair and Justin Parvis are both parents to a 2-year-old, 1 year old, and 1 month old that seek care at CHCB. Between juggling responsibilities, their individual health and their children they wish they had a concise and easy to read document that allows them to track and check off their children's immunization status.
- ❑ Britany: "I somewhat understand what my kids need, and the doctors tell me what they need but I don't know much about what its for, the side effects, when they get it and as they get older if they will need it again"
- ❑ Justin: "I know the CDC has something for immunizations and I look that up sometimes, but I wish it were easy to read and tangible and could check off as I go for the vaccines"



Intervention & Methodology

- Create an educational booklet that details the pediatric immunization schedule from birth to eighteen months old
 - The booklet is arranged in chronological order with a
 - The booklet provides information regarding what each vaccine is protecting against
 - The booklet tracks depicts whether the vaccine is part of a series or individual
 - The booklet highlights important side effects for the vaccines
- This booklet can be distributed to parents and guardians as a tangible way to track their child's immunizations
- The booklet has a space where completed vaccines can be checked off



Results & Responses

- ❑ As an ongoing project this booklet will be shared with parents and families during prenatal and well care visits and discussed
- ❑ Vaccination rates among children will be monitored and tracked to assess if there is any change in vaccination rates
- ❑ This project will continue to analyze any changes in vaccination hesitancy as a result of the booklet.



Effectiveness & Limitation

❑ Effectiveness

- ❑ Creates a self tracking option for parents/guardians to stay up to date on their child's immunization record and what each vaccination is for

❑ Limitation

- ❑ While the document is more succinct and has images to depict the vaccinations, it is mainly accessible for people who speak and read English.



Recommendations for Further Investigation

- ❑ Assess presence and usage of the booklet in the local community
- ❑ Asses the need to translate to other languages and make more accessible for New Americans and those who English is not their first language
- ❑ Evaluate the response to this intervention and assess efficacy by investigation parent/guardian comfort and knowledge of various vaccines and their willingness to vaccinate their children



References

1. “Birth through Age 18 Immunization Schedule.” AAFP Home, 3 Mar. 2020, <https://www.aafp.org/family-physician/patient-care/prevention-wellness/immunizations-vaccines/immunization-schedules/birth-through-age-18-immunization-schedule.html>.
2. COMMITTEE ON INFECTIOUS DISEASES; Recommended Childhood and Adolescent Immunization Schedule: United States, 2022. *Pediatrics* March 2022; 149 (3): e2021056056. 10.1542/peds.2021-056056
3. Olson O, Berry C, Kumar N. Addressing Parental Vaccine Hesitancy towards Childhood Vaccines in the United States: A Systematic Literature Review of Communication Interventions and Strategies. *Vaccines (Basel)*. 2020;8(4):590. Published 2020 Oct 8. doi:10.3390/vaccines8040590
4. *Vaccine Coverage 20 20 - Healthvermont.gov*. <https://www.healthvermont.gov/sites/default/files/documents/pdf/IMR-Vaccination-Coverage-2020-Annual-Report.pdf>.
5. “Vaccines for Children (VFC): Publication on Cost-Benefits.” *Centers for Disease Control and Prevention*, Centers for Disease Control and Prevention, 23 Apr. 2014, <https://www.cdc.gov/vaccines/programs/vfc/pubs/methods/index.html?msclkid=d6846354c5be11ecba3494e0ef6441b2#table2>.