

# Supporting Effective Immunization Policy: Identifying and Addressing Barriers to Timely Immunization

## Statement of Problem

Despite availability and routine recommendation of these vaccines, approximately 42,000 adults and 300 children in the United States still die each year from vaccine-preventable diseases. While ongoing vaccination programs help to keep these diseases at bay, some vaccine-preventable diseases have been re-emerging. The shift toward intentional vaccine delay and refusal is directly associated with increased occurrence of preventable diseases for individuals and entire communities. Furthermore, infants and young children with delayed vaccinations are more likely to be under-immunized as they get older.

A rise in vaccine hesitancy—a behavior influenced by lack of trust in the medical community, concerns about vaccine safety, efficacy, necessity or convenience and other issues related to vaccination—has contributed to undervaccination through parental decisions to delay or refuse vaccines for their children. The goal of this research portfolio is to provide a conceptual framework for understanding the multiple factors that impact vaccine acceptance, explore strategies for effective vaccine communication, particularly in an era of increasing access to information and consider the implications of advocacy and policy approaches to address vaccine hesitancy.

## Description

### Talking Points to Address Vaccine Hesitant Parents

Image

				
<p>Vaccines are safe. They are tested in thousands of people before they are licensed and are monitored extensively after being made available to the public.</p>	<p>Infants experience the same amount of stress during each visit, whether they receive two or five shots at once. Therefore, spreading out the shots over more visits may be more stressful.</p>	<p>Spreading out vaccinations beyond the recommended schedule may be less safe and effective.</p>	<p>The recommended vaccine schedule ensures the best immune response and protection when a child is most at risk of infection.</p>	<p>Delaying vaccines increases the risk of contracting vaccine-preventable diseases and infecting others.</p>

Image



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The recommended vaccine schedule ensures the best immune response and protection when a child is most at risk of infection.



Delaying vaccines increases the risk of contracting vaccine-preventable diseases and infecting others.

Health care providers can reduce or eliminate the number of patients on alternate vaccination schedules by addressing some of the most common concerns about vaccine safety and efficacy.

Dr. Feemster and her team have conducted several studies to better understand vaccine initiation barriers related to vaccine hesitancy and how to overcome them:

1. A 2009 study of newborns from a large urban setting found that children most at risk of late vaccine initiation are those whose mothers attend fewer prenatal care visits and who are younger, less educated and already have at least one other child. These delays may not be driven by negative attitudes toward vaccines, but demonstrate that barriers to accessing vaccines combined with an underappreciation of the severity and prevalence of preventable diseases can keep children from being fully vaccinated on time. Dr. Feemster's findings suggest that it is critical to target at-risk mothers early, even prenatally through vaccine education and to encourage prenatal pediatric visits. These data also highlight the potential for immunization registry data to identify infants for targeted outreach.
2. PolicyLab researchers Dr. Alex Fiks and Dr. Feemster evaluated the feasibility and impact of interventions informed by behavioral economics (retail pharmacy vouchers for Tdap vaccines and a celebrity public service announcement) to increase Tdap vaccination among caregivers of young infants. They found that despite leveraging existing infrastructure for adult vaccination, the results suggest that retail pharmacy vouchers delivered during a newborn visit are not an effective strategy for promoting Tdap. Furthermore, alternative approaches are needed that prioritize convenience and provide an immediate opportunity to vaccinate when motivation is high.
3. Caregivers often ask for an alternative immunization schedule that spreads immunization over a longer period of time. Dr. Feemster and colleagues recently examined the characteristics of pediatricians and practices associated with different practice-level responses to alternative immunization schedule requests. They found that pediatricians who work in practices that accommodate alternative immunization schedule requests have increased odds of having a high frequency of alternative immunization schedule requests, and beliefs that relationships with families would be negatively affected if they refused requests while practices that discontinue care to families who request alternative immunization schedules have increased odds of being a private group practice and having a formal office vaccine policy.

## Next Steps

Dr. Feemster's ongoing work continues to build a conceptual framework for vaccine acceptance that can be applied to the development of strategies to optimize implementation of vaccine recommendations. This is especially challenging in an era of rapid information dissemination. In order to combat this, the public health community must prioritize effective communication strategies. Dr. Feemster's ongoing projects continue to evaluate these communications strategies that ensure pediatricians give strong recommendations for the proven vaccine schedule and other projects that aim to understand the how institutional policies affect vaccine acceptance.

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## Suggested Citation

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## Related Tools & Publications

- [Are 'alternative' vaccine schedules safer?](#)  
[Article](#)  
May 2013
- [Identifying infants at increased risk for late initiation of immunizations: maternal and provider characteristics](#)  
[Article](#)  
Jan 2009
- [Delaying Vaccination Is Not a Safer Choice](#)  
[Article](#)  
Dec 2013
- [Remembering the Benefits of Vaccination](#)  
[Article](#)  
May 2015
- [Factors Associated With Pediatrician Responses to Alternative Immunization Schedule Requests](#)  
[Article](#)  
Feb 2017
- [Addressing Vaccine Hesitancy to Protect Children and Communities Against Preventable Diseases](#)  
[Evidence to Action Briefs](#)  
Mar 2017
- [Vaccine Hesitancy in Pediatric Primary Care Practices](#)  
[Article](#)  
Nov 2018
- [Pediatricians' Vaccine Attitudes and Practices Before and After a Major Measles Outbreak](#)  
[Article](#)  
Jan 2018
- [Higher Education Student Vaccination Policies: How Administrators Can Encourage Vaccine Uptake](#)  
[Evidence to Action Briefs](#)  
Aug 2023
- [Improving Campus Health—Building on Research to Increase Vaccination Rates](#)  
[Webinars](#)  
Mar 2024