IGNITING ADVANCES IN IMMUNIZATION

Funding Unmet Needs







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September 12, 2018





Overview

- NVPO Background
- Funding Priorities
- Fiscal Year (FY) 2018 Projects
- Fiscal Year (FY) 2019 Projects

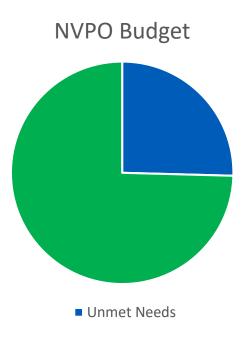
NVPO Background

Statutes

- Sections 2101 and 2102 of Title XXI of the 1986 National Childhood Vaccine Injury Act (PL 99-660).
- 21st Century Cures Act
 - "Encouraging Vaccine Innovation: Promoting the Development of Vaccines that Minimize the Burden of Infectious Diseases in the 21st Century" A Report to Congress

NVPO Background

- Unmet needs funding is:
 - Carried out through partnerships with federal agencies involved in immunization
 - Designed to accelerate innovation and respond to emerging needs or gaps
 - Driven and informed by data
- Total Funding Level: \$6.4M
 - Unmet Needs: \$1.5-1.9M (25% or more of NVPO's budget)



NVPO Priority Areas for Unmet Needs FY18 and FY19

- Vaccine Coverage
 - Racial and ethnic disparities
 - HPV vaccination
- Vaccine Innovation
 - Supporting successful vaccine development or implementation

FY18 Unmet Needs Projects and Status



FY18 Unmet Needs

- Total Funding: \$1.5M
- Total Projects Funded: 7
- Project Topics:
 - Vaccination Coverage (HPV, Adult Disparities)
 - Vaccine Innovation (GBS, CMV, Lyme, HAI-related pathogens)
 - Vaccine Safety

FY18 Unmet Needs – Vaccination Coverage

Project	Funding	Agency	Focus	Activities
Human	\$100K	CDC	Accelerate HPV vaccination	Convene Regional Leadership Summit at
Papillomavirus			coverage in the southeastern	University of Alabama at Birmingham for
(HPV)			United States by encouraging	HPV coalitions in AK, AL, GA, KY LA, MS,
			coalition networking, practice	TN)
			sharing, idea generation, and	 Quarterly technical support webinars
			problem-solving.	
Racial and	\$200K	CDC	Improve understanding of racial	 Nationally representative survey of adults
Ethnic			and ethnic disparities in	with oversampling of racial/ethnic
Disparities			routinely recommended adult	minorities age 19+ with chronic conditions
Among Adults			vaccine coverage.	to assess current knowledge, attitudes,
				and behaviors among adults with chronic
				health conditions regarding routinely
				recommended vaccine

FY18 Unmet Needs – Vaccine Innovation

Project	Funding	Agency	Focus	Activities
Group B Streptococcus (GBS)	\$250K	CDC	Improve understanding of microbial factors contributing to severe cases of GBS to help accelerate vaccine development	 Supported CDC efforts to complete whole genomic sequencing (WGS) and automated characterization of ABCs group B streptococci (GBS) isolates collected during 2016-2017 (more than 4,460 isolates). Provided population-based vaccine target distributions and antimicrobial susceptibility profiles to accurately represent invasive GBS strains in the US
Cytomega- lovirus (CMV)	\$450K	CDC	Assess the burden of CMV infection and develop laboratory tests to measure immunological response to CMV and viral infection	 Enrolled 5 hospitals into the study and established IRB approvals

FY18 Unmet Needs – Vaccine Innovation

Project	Funding	Agency	Focus	Activities
Lyme Disease	\$250K	CDC	Improve understanding of high- risk groups who will benefit from new Lyme disease vaccine	 Focus groups with consumers Clinician interviews Report to guide population-based survey development and inform future communication efforts
Healthcare Associated Infection (HAI) linked Data Systems	\$250K	CDC	Link surveillance and CMS claims data to identify risk groups and settings where HAI vaccination programs should be focused	 Link data on Clostridiodes difficile infections (CDI) and Staphylococcus aureus at 8 states to CMS claims data Analyse data to help quantify potential impact of strategies like vaccination and health care settings where vaccines could be most effectively delivered

FY18 Unmet Needs – Vaccine Safety

Project	Funding	Agency	Focus	Activities
Vaccine	\$308K	CDC	Update and validate CDC's	 Update existing algorithms for use with
Safety			Vaccine Safety Datalink	current ICD-10 coding
Surveillance			algorithms for identification of	 Validate algorithms
			birth defects from ICD-9 to ICD-10	• Describe background prevalence for a 2-year
			coding	period following transition to ICD-10 coding

FY19 Unmet Needs Proposed Projects

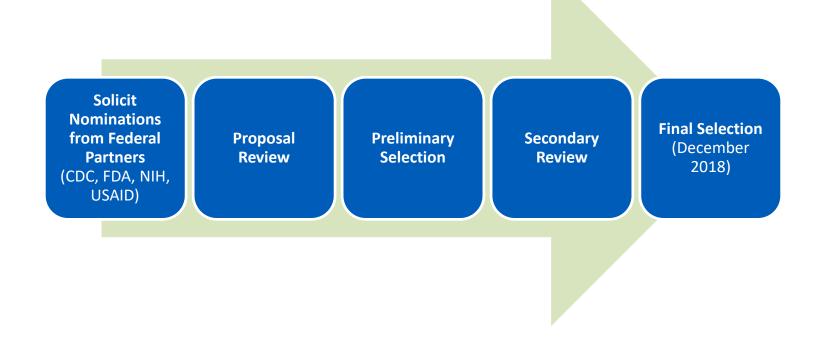




FY19 Unmet Needs

- **Total Funding:** \$1.5-1.8M
- Total Projects Funded: 10 preliminary selections currently being considered for funding
- Project Priorities:
 - Vaccination Coverage
 - Vaccine Innovation
 - Vaccine Safety

FY19 Unmet Needs Process



FY19 Unmet Needs – Vaccination Coverage

Project	Funding	Agency	Focus
Racial/Ethnic Disparities	\$250K	CDC	Link overseas vaccination records of newly arrived refugees between refugee health programs and state Immunization Information Systems (IIS)

FY19 Unmet Needs – Vaccine Innovation

Project	Funding	Agency	Focus
Polio	\$180K	FDA	Methods for regulatory evaluation of a new generation of polio vaccines
Tuberculosis	\$62K	FDA	Advancing a novel assay to provide a functional correlate of protection that predicts tuberculosis vaccine efficacy
Group A Streptococcal	\$20K	NIH	Consultation meeting to inform development of Group A Streptococcal Vaccine
Pertussis Vaccines	\$20K	NIH	Consultation meeting to inform strategies to overcome waning immunity in pertussis vaccines

FY19 Unmet Needs – Vaccine Innovation

Project	Funding	Agency	Focus
Cytomegalovirus Vaccines	\$200K	CDC	Improve diagnostic tools for CMV infection
Group A and B Streptococcal Disease	\$368K	CDC	Inform Group A and B Streptococcal vaccine development through characterization of circulating strains and their distribution among different populations
Group B Streptococcal Disease	\$300K	CDC	Inform Group B Streptococcal Vaccine development and support proof of concept towards the establishment of immunologic endpoints for GBS among young infants

Thank you!



