

## Summary

### Health Focus

Immunization Information Systems (IIS)

### Goal

Improve ability for states, providers, and patients to access immunization data from IIS while reducing the burden of cross-jurisdictional exchange of information

### Background

IIS are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to people residing in a given geopolitical area.

Each IIS operates with common standards such as Health Level 7 (HL7). The lack of a national IIS makes it difficult for health systems operation in multiple jurisdictions to connect to multiple IIS.

Consumers have difficulty accessing immunization records, especially for parents accessing their children's data and for those who have moved to a new address.

Patients commonly cross jurisdictional boundaries to seek care, but jurisdictions do not always clearly exchange this information.

# Advancing Health Equity through Data and IT:

## Immunization Gateway

*Using design and technology to uncover many opportunities to explore new solutions around critical health and wellness issues affecting large segments of the population*

Health + ("health plus") is an ongoing series of research and prototyping cycles sponsored by the Department of Health and Human Services Office of the CTO. It is focused on specific, high-impact health issues, with the goal of fostering technology solutions and creative problem solving.

### Immunization Gateway

Leveraging innovation is the key to accelerating the identification and implementation of innovative solutions to improve ability for states, providers, and patients to access immunization data from IIS. The gateway is a joint effort between CDC, CMS, and CTO. There are three main components of the program that enable improved exchange of immunization information: Connect, Share, and Access.

#### Connect

This product enables large providers to report immunizations to multiple states. The goal is to reduce the workflow burden for stakeholders and improve completeness of immunization information. A centralized hub links local IIS, providers, and consumers together. Centralized testing procedures are in place to quality assurance of this model. The IT architecture alleviates the need to multiple IIS connections for a provider.

#### Share

The share component allows state-to-state exchange of information across jurisdictional lines. Using a scalable and secure hub, states and providers will successfully query outside jurisdictional registries to cross-check vaccination and other medical information in monitoring transient populations and to properly and accurately evaluate each individual's immunization history and needs. This model has been tested for those IIS platforms using STC and Envision, and is live in several states & jurisdictions. Additional states are in the pipeline to onboard in this program.

#### Access

The goal of the program is to increase consumer access to online immunization records and forecasts through state and regional IIS. Customers can obtain personal health records from an immunization-specific portal, MyIR. This in turns drives them to make informed decisions on their family records and improve immunization coverage. The program is focused on using human centered design principles to make immunization records easier to understand for end users.

