

My Vaccine Record (MVR)

Improving Consumer Access to Immunization Records in New York City (NYC) Developed in Collaboration with HLN Consulting LLC.

Shirley Huie MPH¹, Gita Prabhakar PMP², Ashley Wilborn², Zachary Betz², Cathy Sripoonpak², Michael Suralik MCS²

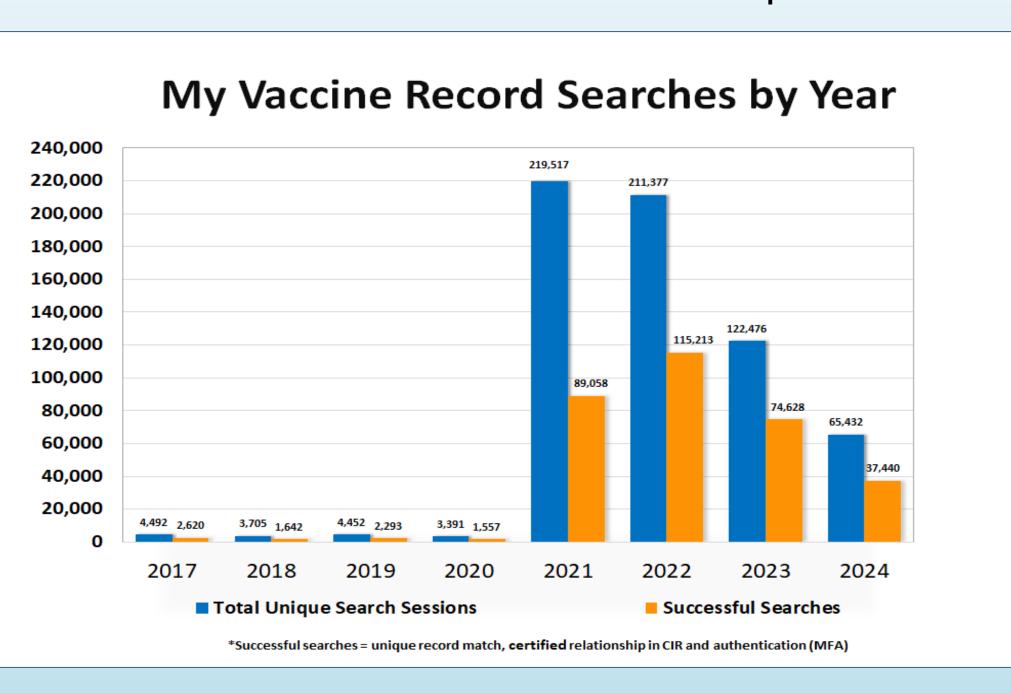
¹New York City Department of Health and Mental Hygiene, Bureau of Immunization, ²HLN Consulting, LLC

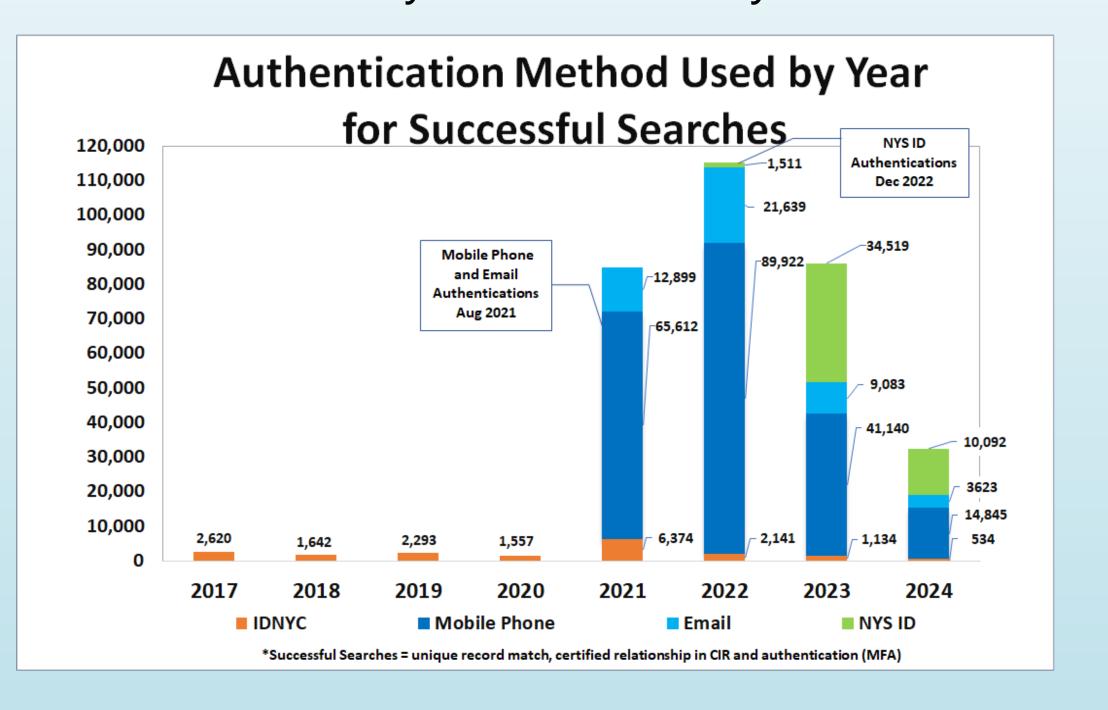
Background **SMART Health Card - Immunization History Application Workflow** • SMART Health Card available for all vaccines reported to CIR (in addition to Citywide Immunization Registry (CIR) Profile Input from User **User* Story** • New York City (NYC) Immunization Information System (IIS), also known as the COVID-19 vaccines) • Private, secure, verifiable, sharable, digital vaccination record that is downloadable Citywide Immunization Registry (CIR), started citywide in 1997 User supplies Personal Identifying I need my vaccine information ~15 million patient records; >172 million immunizations and printable Information for authentication and now. How do I get it? • Users can connect their vaccination records to a number of existing smart phone record retrieval. Reporting of childhood immunizations is mandated, though reporting of adult health wallet apps immunizations requires patient consent **MVR Background** CIR developed My Vaccine Record (MVR) in January 2017 **Immunization Record** • The general public may retrieve their or their children's immunization records and **Immunizations** Td (tetanus and diphtheria toxoids), *Users are individuals seeking access to their adsorbed, preservative free, for adult forecasts from the CIR using the MVR web application, which is accessed from a vaccination records through an online application Administered October 22, 2011 mobile phone or computer October 18, 2022 Add Record to Health • The initial version of MVR required users to verify their identity by providing an **Authentication Options Outputs to User** IDNYC number issued by New York City to residents who had registered for an Health can securely store your record ARCHIE JUGHEAD-TEST **IDNYC # Vaccine record **IDNYC** card. However, the COVID-19 pandemic as well as mpox and measles Mobile Phone on record PDF (printable) May 22, 1999 Vaccination outbreaks underscored the need for record storage that is accessible to the patient Email on record QR Code (scannable) Td (adult), 2 Lf tetanus toxoid The QR code can be saved to their NYS ID # preservative free, adsorbed October 22, 2011 During the COVID-19 pandemic, Number of Patients and Immunizations Added to CIR when there were vaccine September 22, 2010 1997-2024 Hep B, adolescent or pediatric mandates for work, school and Hep B, adolescent or pediatric 172,287,731 visiting public venues, the 150,000,000 Contains 8 entries Health Department received Record Verification 36,310 manual record assistance Add to Health requests via mail, phone, fax, or 2991 2999 2001 2003 2005 2001 2009 2011 2013 2015 2011 2019 2021 2023 **The IDNYC # issued by NYC has >2 million NYC cardholders *MFA is Multi-factor Authentication (MFA), also known as two-factor authentication (2FA)

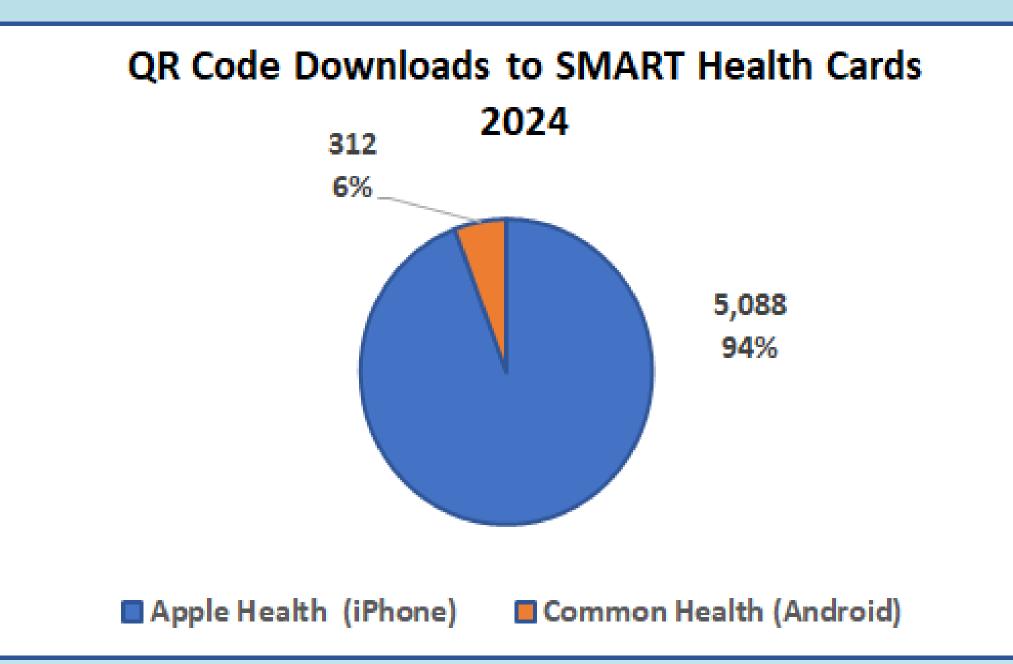
Technical Architecture

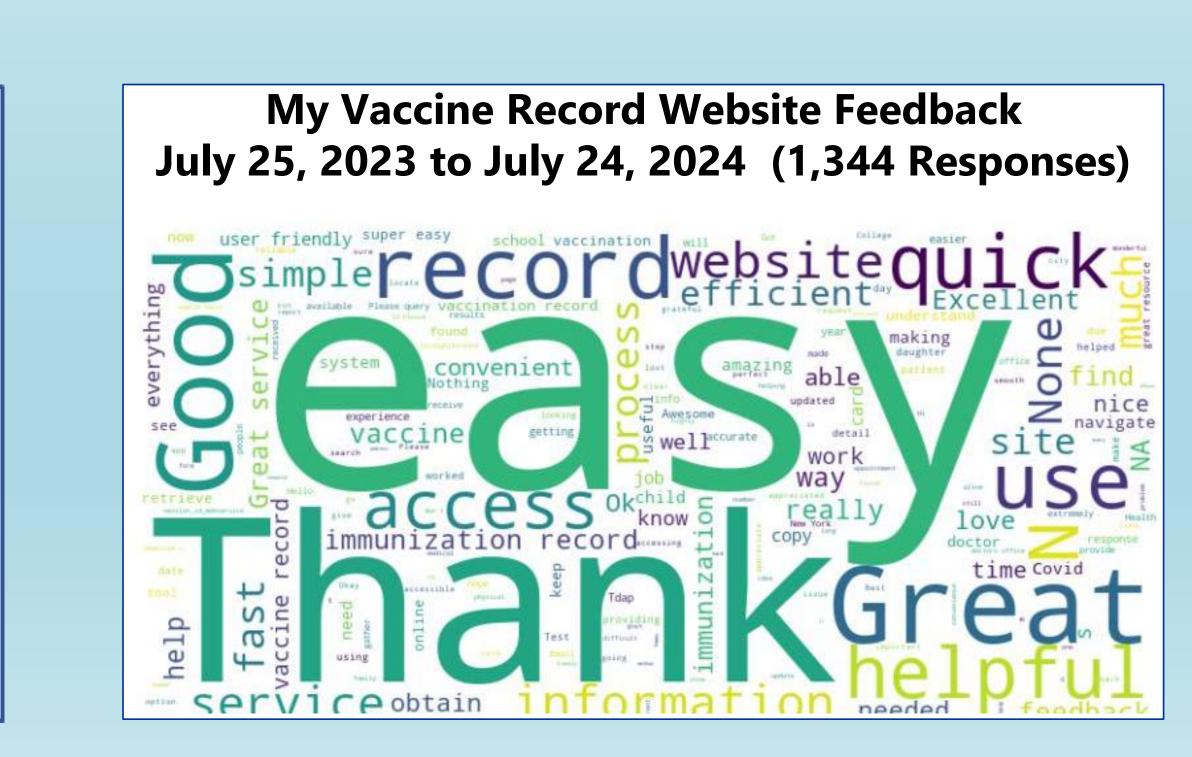
Results

- Individuals have conducted more than 320,000 successful searches
- Over 31,000 QR codes have been generated, of which over 6,000 have been downloaded to **SMART** Health Cards
- Mobile phone authentications are used about 24% more than the other methods combined
- MVR received unsolicited, overall positive feedback on the enhanced system's efficiency and usefulness









Enhancements to MVR allow the public to securely access their official

To improve public access to immunization records Objectives

Goal

• Add additional two-factor authentication options: phone number, email address, New **York State ID**

Project Goal & Objectives

- Enable MVR users to instantaneously download and store their vaccination record on SMART Health Card compliant QR codes in their smart phone wallet
- Migrate MVR to modern technology to improve usability and reduce maintenance

Methods

- Enhanced MVR to provide additional options for two-factor authentication, including a phone number or email address registered with the individual's healthcare provider, or a New York State Identification (**NYS ID**)
- Added a QR Code compliant with the SMART Health Card standards to contain the immunization record and to be saved on a smart phone-wallet
- Migrated MVR to modern technology, significantly improving usability and reducing maintenance efforts and related costs

immunization records online and on-the-go, without contacting the Health Department or their immunization provider. The records can be used for school, employment, or access to venues requiring vaccination

Conclusions & Next Steps

Mobile phone screens examples

Last Updated

Flu Vaccine

Administered — ASHLEYSMOKE-TEST

Tetanus and Diphtheria Vaccine

Td (tetanus and diphtheria toxoids)

adsorbed, preservative free, for adult

Administered — ARCHIE JUGHEAD-TES

- Through the use of MVR, NYC is prepared to meet a high volume of requests in the event of a future vaccine-preventable disease outbreak in which vaccine requirements are implemented
- For the future, NYC is evaluating ways to make immunization records even more accessible, such as:
- Addressing the content size limitations of QR codes by delivering information using **SMART** health links
- Sending instructions on accessing and updating their SMART Health Card each time a vaccine dose is reported to the CIR

For More Information

For more information about MVR, visit My Vaccine Record, NYC Website: https://myvaccinerecord.cityofnewyork.us/myrecord/ or scan QR Code

> Email: Shirley Huie at shuie@health.nyc.gov Gita Prabhakar at gita@hln.com



Acknowledgements

Citywide Immunization Registry Staff, Bureau of Immunization, NYC DOHMH Julian Matiz, BCS, Emily Liang, MPH, Dayvonn Jones, MPI, Max Veillard, MPH, Fritzner Paul, Cinthia Castro, Minyi Ruan, Christina Barron, MPH