

VA Mobile Comparative Analysis: Vaccine Records

Sep 22, 2021

[\(Mural with all the screenshots\)](#)

Background and goals

We completed an audit of other health apps to answer the following:

1. What vaccine information is being displayed?
2. What features are available?

Note: many apps were reviewed based on marketing materials, app screenshots, and help documentation. The apps reviewed were on iOS with the exception of Common Health, which is an Android-specific app.

Apps Reviewed

- Apple Health
- Common Health
- CommonPass
- Docket
- Express Scripts
- MyChart
- myColorado
- NHS app

Takeaways

Common features

These are the features or pieces of data that were almost universal among the apps we reviewed:

- Basic vaccine details
 - User's name
 - User's date of birth
 - Date of immunization
 - Vaccine Name (COVID-19)
 - Manufacturer (Janssen, Moderna, Pfizer)
 - Clinic Site (name and address)
 - Lot/Batch number

- Sharing functionality- ability to download your status as a pdf and share it with others
- Some sort of status or label associated if the user has received the full series of shots
 - Ex: 1 of 2, or 2 of 2
 - 'Complete' label
- Third-party verification

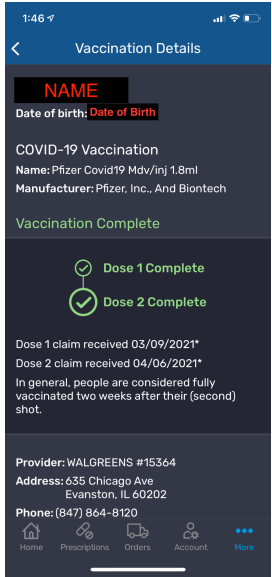
Less common

These features or pieces of data were less common among the apps we reviewed.

- Additional vaccine details
 - Vaccine type (ex: MRNA, Viral Vector)
 - Dose amount
 - Body site
 - Reaction
- Ability to upload an image of the physical CDC card
- Displaying information in the form of a physical CDC card

Accessibility

We did not complete accessibility testing with these apps but based on other healthcare-related discoveries, we are starting to gain an understanding of which apps prioritize accessibility and which apps do not. Here are a few dos/don'ts that we have observed in other apps:

<p>Do's</p> <ul style="list-style-type: none"> - Combine visual and text symbols - Consider color combinations for high contrast - Group screen reader announcement instead of line by line 	
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Don'ts

- Create formats incompatible with screenreaders
 - The myColorado app displays information in the CDC card format, rendering it illegible for screenreaders
- Rely only on QR codes for scannability



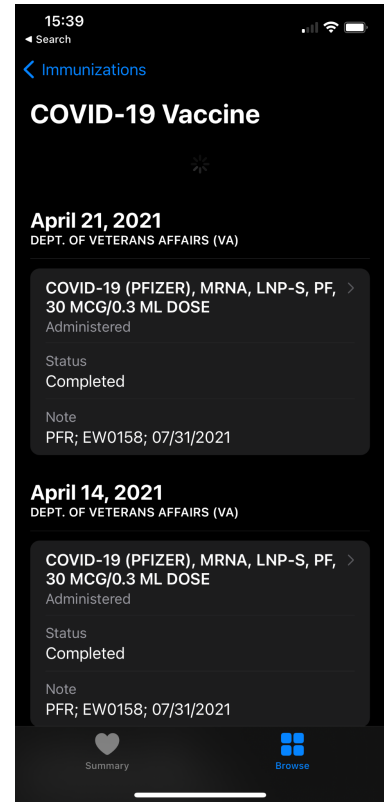
How is vaccine information displayed?

We wanted to see what vaccination details were displayed and if there was any consistency or standard present.

Apple Health

Apple Health consumes the VA Lighthouse API

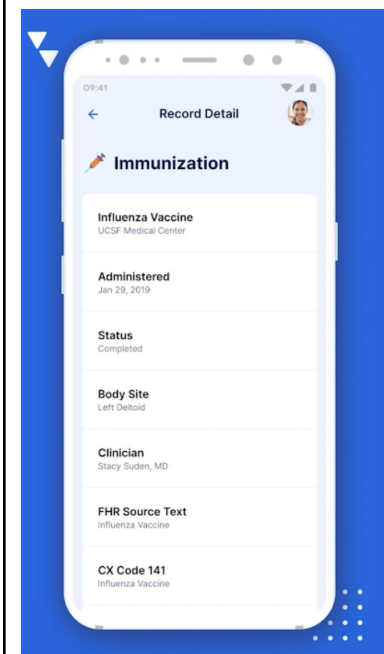
- Date
- Vaccine Manufacturer
- Vaccine Type
- Lot number (assuming this is what it is)
- Dose amount
- Status
- Notes



Common Health (Android)

Common Health is referred to as the Apple Health of Android. It was created by the same nonprofit that created CommonPass.

- Date
- Vaccine Type (COVID-19)
- Vaccine Manufacturer
- Status
- Body Site
- Clinician



Express Scripts

- Name
- Date of Birth
- Vaccine Name (COVID-19)
- Dose amount
- Vaccine Manufacturer
- Series Status
- Dose dates
- Fully vaccinated content
- Provider
- Provider Address
- Provider Phone Number



Docket

- Vaccine Name (COVID-19)
- Date
- Provider
- Vaccine Manufacturer
- LOT number
- Share functionality



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Record Events

Janssen COVID-19 Vaccine
Administered: 04/12/2021
Provider: n/a
Manufacturer: Janssen
LOT: 205A21A

Annotation Share Audio: OFF Stop Share

CommonPass

- Name
- Date of Birth
- Vaccine Type (COVID-19)
- Date
- Provider
- Vaccine Manufacturer
- LOT number
- QR code for verification



myColorado

The myColorado apps displayed vaccination information in the form of the physical CDC card

- Name
- Date of birth
- Patient number
- Vaccine Name (COVID)
- Vaccine type (mRNA, Vector)
- Vaccine Manufacturer
- LOT number
- Clinic site
- Share functionality



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myVaccine Record

COVID-19 Vaccination Record Card

Please keep this record card, which includes medical information about the vaccines you have received.

Por favor, guarde esta tarjeta de registro, que incluye información médica sobre las vacunas que ha recibido.

SAMPLE **SAM**

Last Name First Name MI

01/01/2000 **1234567**

Date of birth Patient number (medical record or SS record number)

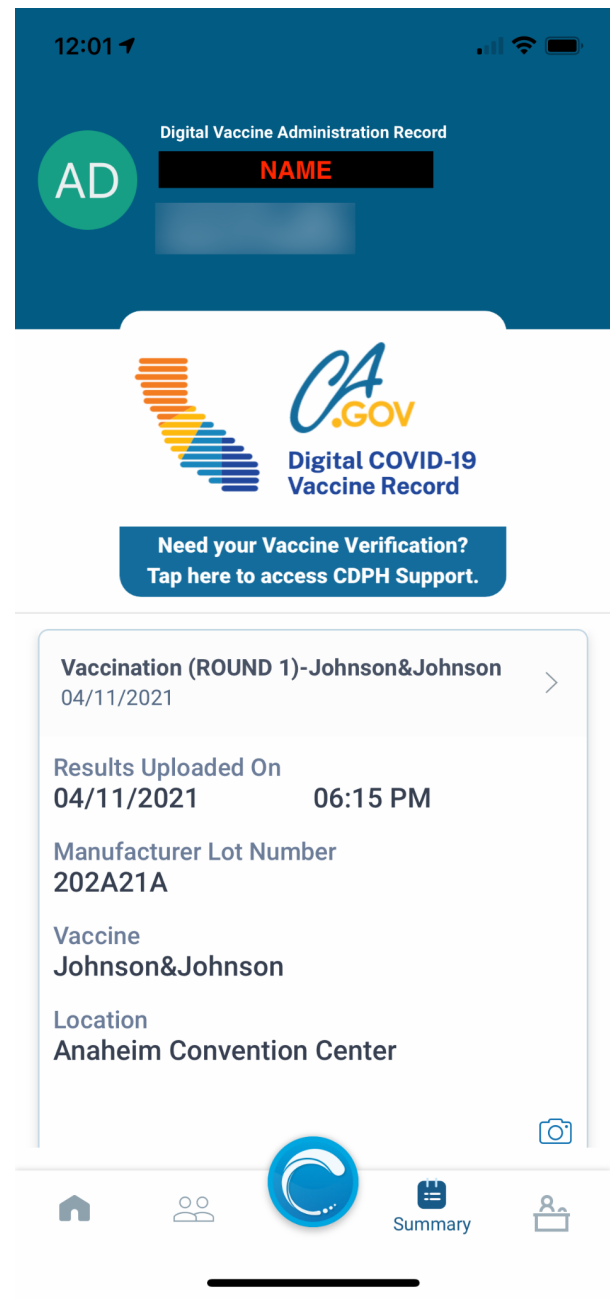
Vaccine	Product Name/Manufacturer	Date	Healthcare Professional or Clinic Site
1 st Dose COVID-19	COVID-19 mRNA (MOD) 003B21A	3 / 28 / 2021 mm dd yy	KING SCOOPERS - 12
2 nd Dose COVID-19	COVID-19 mRNA (MOD) 018C21A	4 / 29 / 2021 mm dd yy	KING SCOOPERS - 29
Other		/ / mm dd yy	
Other		/ / mm dd yy	

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Othena

Othena is the digital health platform for Orange County, CA

- Name
- Date results were uploaded
- Vaccine Name (COVID-19)
- Vaccine Manufacturer
- LOT number
- Clinic site
- Series status
- Upload image of physical CDC card



Recommended features

For the MVP, we recommend including the basic ability to view vaccine information on the VA mobile app. Considering the high priority of this feature, we will be limited to what is available in the Lighthouse API, our source of vaccine data.

There are other nice to have features observed in other apps that could be added in later stages:

- Sharing functionality
- Upload an image of the physical CDC card
- Third-party verification
- Scheduling a vaccine appointment
- Personalized recommendations based on prior vaccine history and age