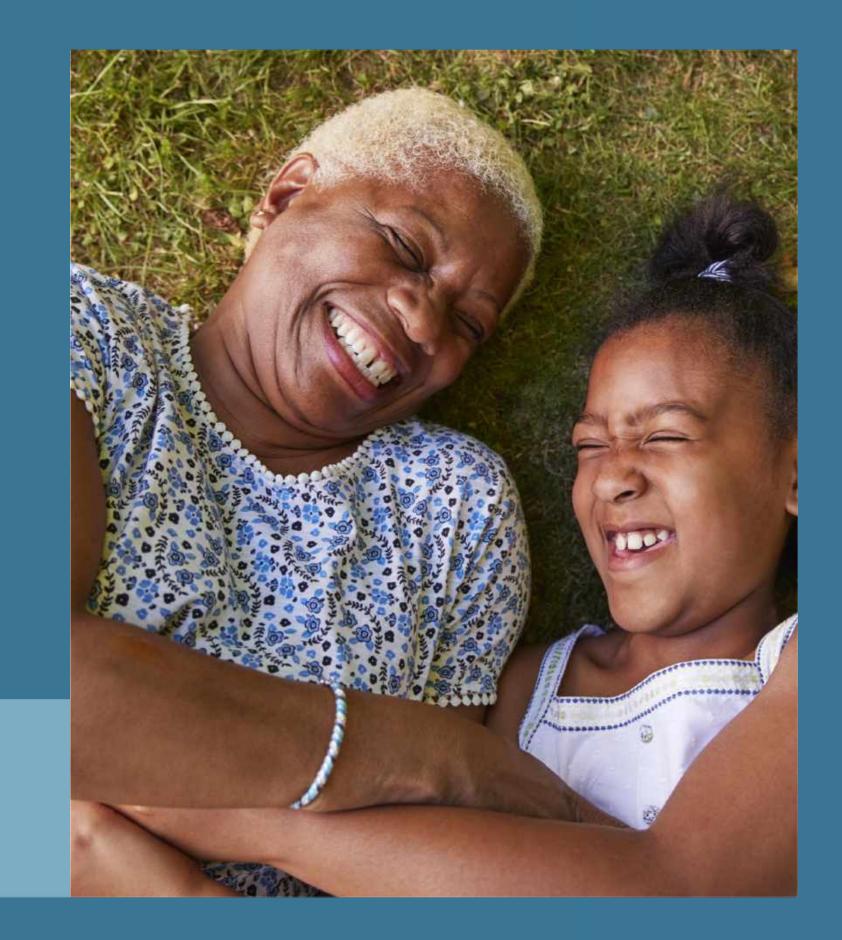


# Project Citadel

Using Behavioral Economics to help Community Based Health Plans protect their members

January 21, 2021 3p-4p EST



#### **Constantly Changing Vaccination Environment** $\mathbf{01}$

- Guidance from Dr. Mark Fendrick 02
- Wellth Experience applying Behavioral Economics in Healthcare 03
- **04** Project Citadel Offering and Overview
- Q&A 05
- Resources 06

#### **Today's Presenters**



Mark Fendrick, MD Director, Center for Value-Based Insurance Design University of Michigan, Ann Arbor



Matthew Loper CEO & Co-Founder Wellth



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Dinesh Apte Chief Commercial Officer Wellth Section 1 Current Status of Vaccine Rollout

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# Problem: Widespread Adherence to the COVID-19 Vaccine(s) will be crucial to achieve herd immunity



#### **Providers focused on delivery**

Key provider administrators (e.g. chain pharmacies, large hospitals) are managing countless moving parts in an effort to deliver with unprecedented scale and velocity. They are not focused on or equipped to motivate patients to receive vaccines.

#### Patients need access, clarity & motivation

Patients have to navigate a noisy environment within a difficult time replete with misinformation to complete vaccine doses. A common standard designed to motivate all adult patients to complete vaccine cycles, and confirm their completion, is essential.



### The clock is ticking

An effective patient facing experience must be delivered in weeks not months, necessitating leverage of existing expertise, standards and technology platforms.

# **Problem (cont.): There are a number of factors that will prevent widespread vaccine adherence**

#### **Ease of Access**

"... foresee hitches if people get their first dose at, say, Walgreens and go to CVS for their second, or, worse still, if they cross state borders, moving from one health department's registration system to another."

#### Large Degree of Coordination Required

"According to a <u>recent analysis</u>, three out of every four Americans would need to receive a vaccine that prevents at least 80 percent of infections for that vaccine to extinguish this coronavirus pandemic on its own."

"In the past decade, the United States has <u>never</u> managed to vaccinate more than half of adults for seasonal influenza in any single year; in most years, coverage hovers around 40 percent."

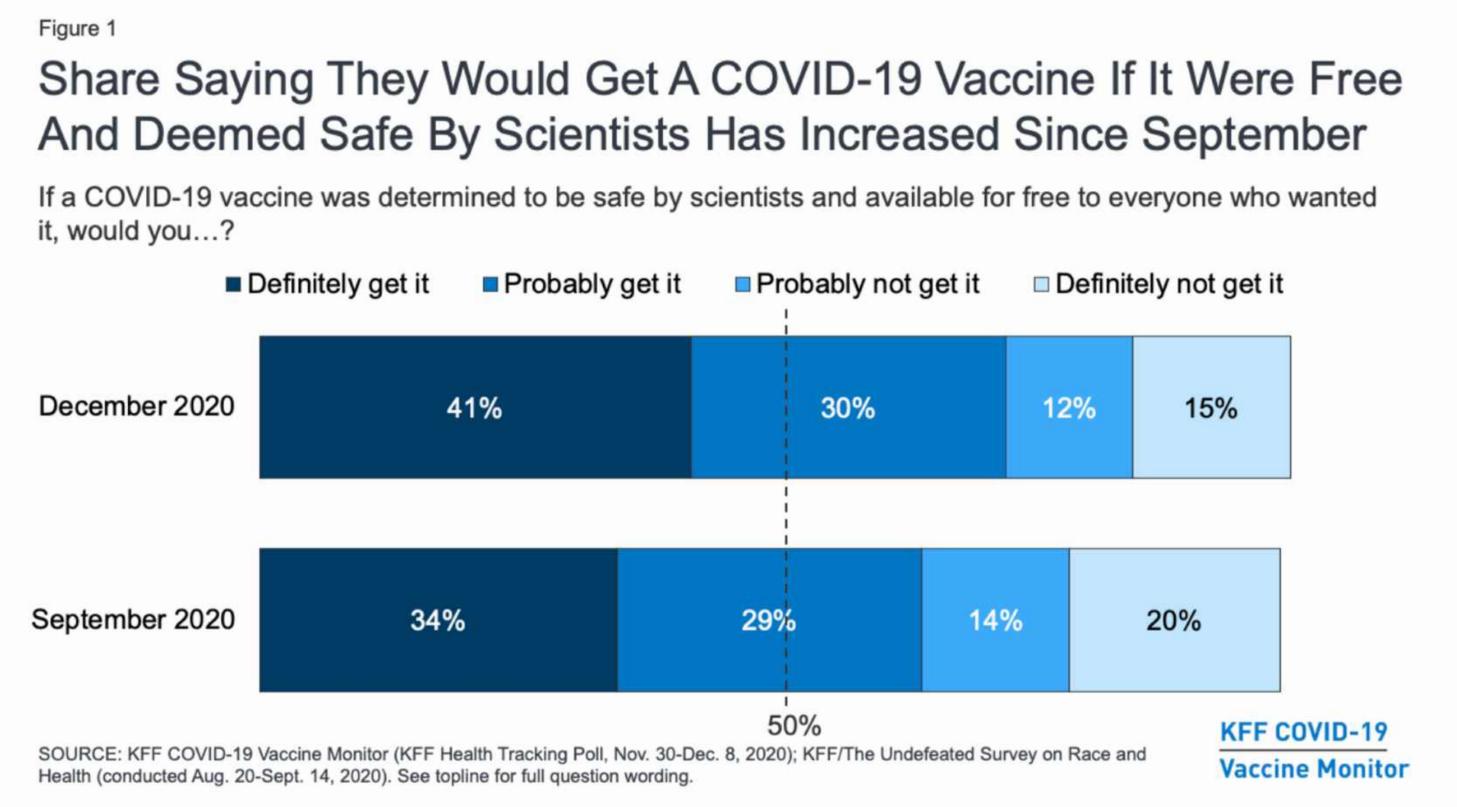
#### **Difficulty Accessing Disadvantaged Populations**

"The flu vaccination rates among Black people, Latinos, and high-risk adults aged 18 to 49 are generally even lower... even though Medicaid covered the cost and the Centers for Disease Control and Prevention managed the distribution to state, local, and tribal authorities."

#### **Free is Not Enough**

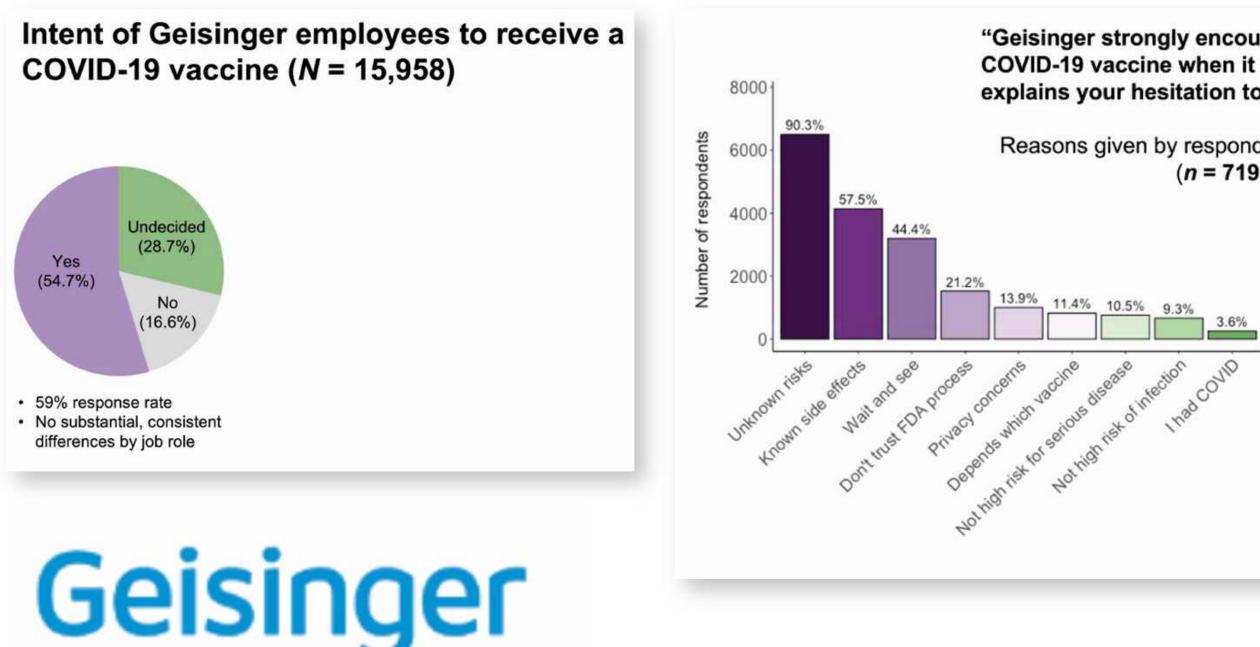
"... skepticism about a rushed vaccine, among other factors, still presents a significant challenge for officials who will need to convince the public that any approved coronavirus vaccine is safe."

## Some (limited) good news - Increases in "Definitely will Get Vaccine" Cohort



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## Data Continues to Indicate Concern & Hesitancy Even Within Major ACHP Health System and Hospital Staff (December 15 2020)



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Source: https://catalyst.nejm.org/doi/full/10.1056/CAT.20.0683

"Geisinger strongly encourages all personnel to take an FDA-authorized COVID-19 vaccine when it is available to them. Which reason(s) best explains your hesitation to do so? Check all that apply."

Reasons given by respondents who said No or Undecided to getting a vaccine (*n* = 7193; mean number of reasons = 2.7)

## New Emerging Issues (Jan 17) – Hesitancy, Access issues, Variants, floated rollout strategies

Los Angeles Times

Subscribe Now \$1/8 weeks

Some healthcare workers refuse to take COVID-19 vaccine, even with priority access

#### **KEY BACKGROUND:**

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A recent survey by the Kaiser Family Foundation found that 29% of healthcare workers were hesitant to receive the vaccine, citing concerns related to potential side effects and a lack of faith in the government to ensure the vaccines were safe.

BREAKING | Jan 2, 2021, 01:42pm EST | 2,312,550 views

### Large Numbers Of Health **Care And Frontline Workers** Are Refusing Covid-19 Vaccine



Tommy Beer Forbes Staff 🕀 Business

## UK bans travel from South America over Brazil variant fears

January 14, 2021

**HEALTHCARE & PHARMA** JANUARY 16, 2021 / 7:03 PM / UPDATED A DAY AGO

## U.S. COVID-19 vaccine supplies strain to meet wider eligibility, second doses

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### CDC warns highly transmissible coronavirus variant to become dominant in U.S.

# Section 2 Dr. Mark Fendrick Addresses Second Shot Problem

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## Goal Today is to Discuss Solving the Two Dose Problem

#### **HEALTH • COVID-19 VACCINE**

# What could happen if people skip the second dose of the COVID vaccine

BY DAVID Z. MORRIS December 24, 2020 2:00 PM EST

Success for the huge COVID-19 U.S. vaccination program now underway hinges on people getting two doses, separated by three to four weeks. But a recent study suggests that many people may fail to get their second injection, which is necessary to build maximum immunity.

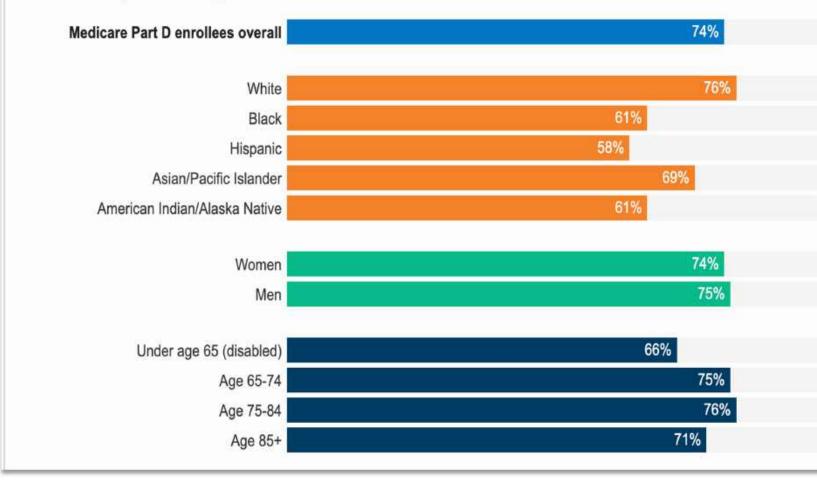
# Historical 2-Dose Problem – Even If Free, Uptake Sub-Optimal



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A Smaller Share of Medicare Beneficiaries of Color, Those Under Age 65 with Long-Term Disabilities, and Low-Income Beneficiaries Received the Second Shingles Shot

Share Receiving Second Shingles Shot Within 6 Months of First Shot in 2018



#### Full Coverage for Preventive Medications after Myocardial Infarction

Niteesh K. Choudhry, M.D., Ph.D., Jerry Avorn, M.D., Robert J. Glynn, Sc.D., Ph.D., Elliott M. Antman, M.D., Sebastian Schneeweiss, M.D., Sc.D., Michele Toscano, M.S., Lonny Reisman, M.D., Joaquim Fernandes, M.S., Claire Spettell, Ph.D., Joy L. Lee, M.S., Raisa Levin, M.S., Troyen Brennan, M.D., J.D., M.P.H., et al., for the Post-Myocardial Infarction Free Rx Event and Economic Evaluation (MI FREEE) Trial

### **CONCLUSIONS**

The elimination of copayments for drugs prescribed after myocardial infarction did not significantly reduce rates of the trial's primary outcome. Enhanced prescription coverage improved medication adherence and rates of first major vascular events and decreased patient spending without increasing overall health costs. (Funded by Aetna and the Commonwealth Fund; MI FREEE ClinicalTrials.gov number, NCT00566774)



#### The NEW ENGLAND JOURNAL of MEDICINE

#### SPECIAL ARTICLE

## Factors that Contribute to the Two Dose Problem

- Side Effects
- Scheduling
- Transportation
- Mis-Information

# Section 3 Wellth's Experience Using Behavioral Economics in Healthcare



# Wellth is the leading digital health company applying Behavioral Economics

- Wellth solves fundamental **behavioral gaps** • - specializes in intrinsic and extrinsic motivation within healthcare
- Our core expertise is with the hardest ٠ patients: the vulnerable, the medically underserved, the hesitant, as well as socioeconomically challenged demographic segments
- Programs boost motivation, provide critical ٠ information, and help with environmental barriers while also being simple, fun and rewarding.
- Everything is agnostic to provider, location, ٠ vaccine type, demographic

When healthcare orgs need to improve patient behavior, they go to Wellth:



Wellth works with some of the largest payers and providers to support patients across a wide range of disease states and demographics achieve better outcomes



### **ResMed**

Wellth works with the world's largest CPAP manufacturer to help new patients build the habit of using their devices every night

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### **Leading Payers and Providers**



### **DaVita**

Wellth works with the world's largest dialysis provider to ensure patients show up for their weekly dialysis appointments.

## In order to be effective, incentives must be designed with in-depth Behavioral Economic expertise

Simply "paying people to do things" doesn't always work. In order to be effective, incentives must:



- Behavioral Science is • complex and nuanced
- Simply 'paying people to get the shot' may not be effective, or even worse, produce unintended consequences if the incentive is not carefully designed
- A balance between intrinsic and extrinsic motivations produces optimal outcomes

#### 2. Leverage key **Behavioral Economic** concepts

- Endowment Effect We value what we already own more than what we possibly might get
- Loss Aversion The threat of loss looms twice as large as an equivalent gain
- Present Bias/Hyperbolic Discounting

We value immediate gratification way more than value in the future

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3. Be salient to the behavior & reinforce it as it happens

#### • Salience

A technology platform is needed to continually reinforce intrinsic and extrinsic motivators to drive the behavior then give immediate rewards once the behavior happens

# Applying these Principles

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# Improving member health, one check-in at a time

#### **Reminders**

**Reminders** help to reinforce habits and provide cues for regular routines.



#### **Rewards and Motivations**

We tailor messages to what motivates each member, be it family, financial incentives, or community.



### **Al and Analytics**

Wellth's integrated AI systems can count and identify pills, read glucometer readings, and more for real-time feedback—and intervention—when something changes.



### Maria's Wellth Member Journey



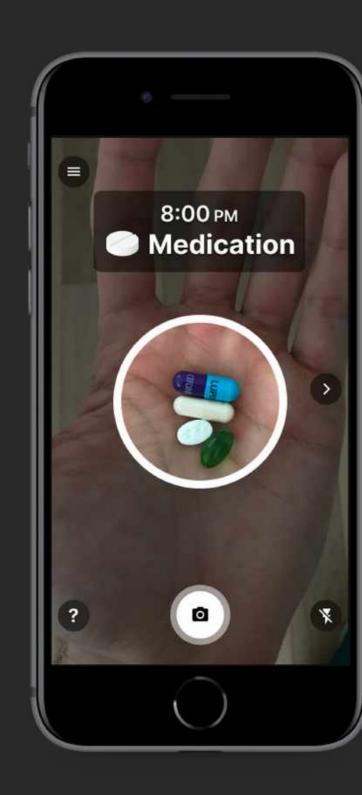
#### Maria, 58

Female Speaks Spanish Bronx, NY Verified Phone Number Verified Email Address

- **X** Type 2 Diabetes
- **Last month HbA1c: 8.8**

Typically takes 4 pills at 9am

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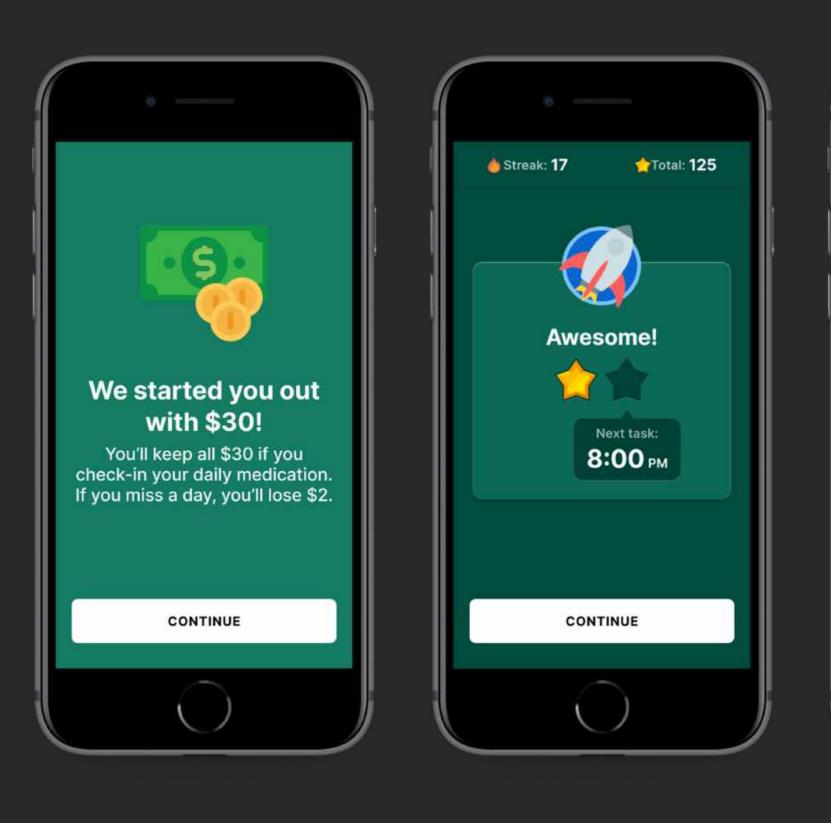
#### Maria, 58

Female Speaks Spanish Bronx, NY Verified Phone Number Verified Email Address

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- **R** Type 2 Diabetes
- **Last month HbA1c: 8.8**
- 🔁 Typically takes 4 pills at 9am
- Motivated by relatedness/community
   Spends on groceries + little self-treats







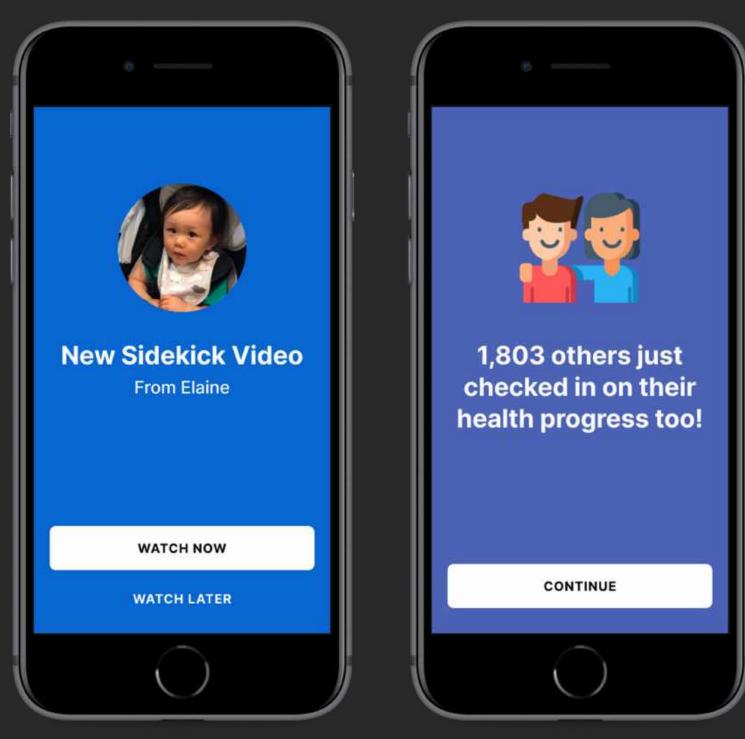
#### Maria, 58

Female Speaks Spanish Bronx, NY Verified Phone Number 🤡 Verified Email Address 🥪

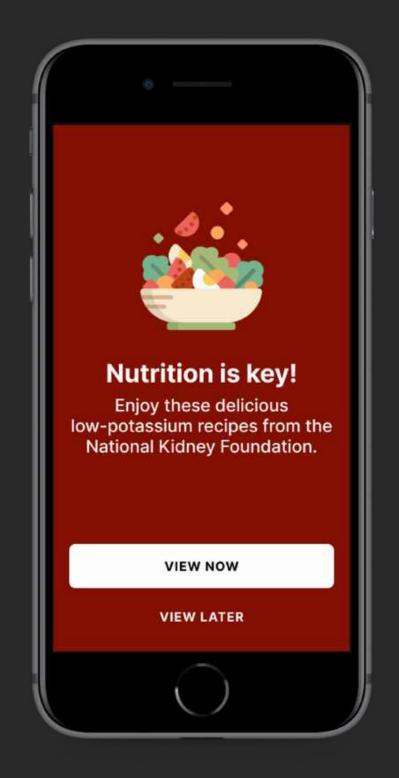
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- **R** Type 2 Diabetes
- **Last month HbA1c: 8.8**
- **C** Typically takes 4 pills at 9am
- Motivated by relatedness/community
- Spends on groceries + little self-treats
- **E** Engages with little nudges
- **E** Less adherent on Saturdays







# 89 %

Average Daily Adherence

#### **Care plan behaviors include:**

- Medications
- Glucometer Readings
- Blood Pressure Readings
- Inhalers and Injectables
- Low sodium meals
- Appointment adherence

**1.29 reduction in A1c levels** in an at-risk T2D Medicaid population and 92% decrease in avoidable ER utilization (24 reduced to 2)

45% reduction heart attack

94% Adherence to Non-Incentivized Medication Adherence Task in ACHP Health Plan MA population

+88 Net Promo CAHPS scores

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45% reduction to readmissions over 90 days post

+88 Net Promoter Score which correlates to improved

# Project Citadel Overview

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# Some Incentives Being Rolled out - Not Enough To Change Behavior

Associated Press

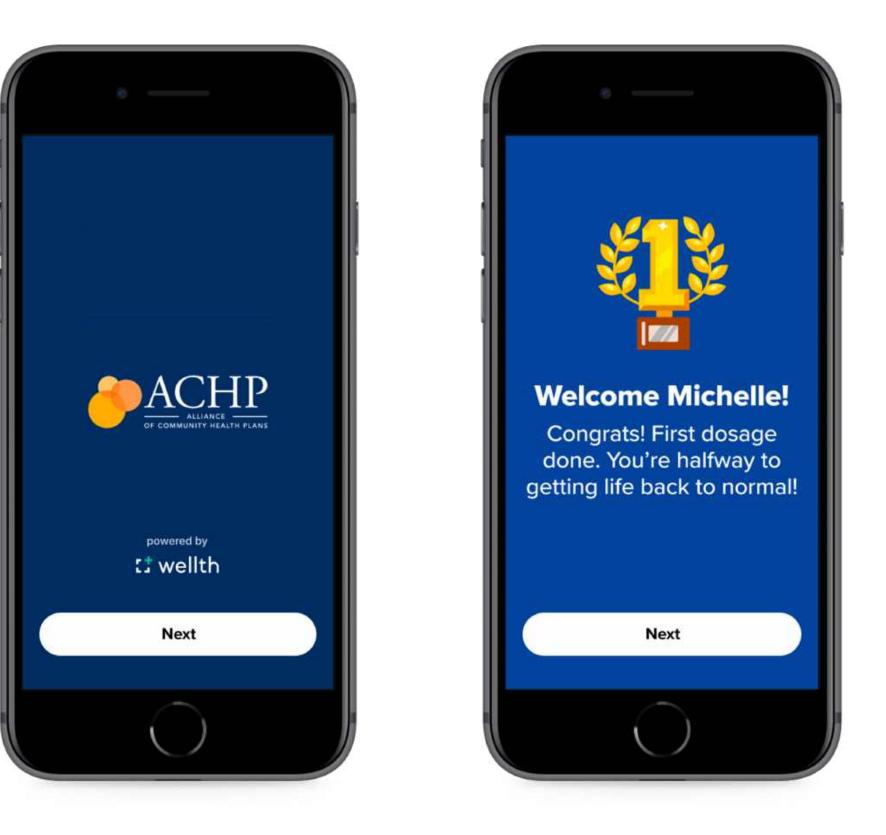
### Instacart, Trader Joe's, Dollar General plan financial incentives to encourage workers to get vaccinated

Published: Jan. 15, 2021 at 1:10 a.m. ET

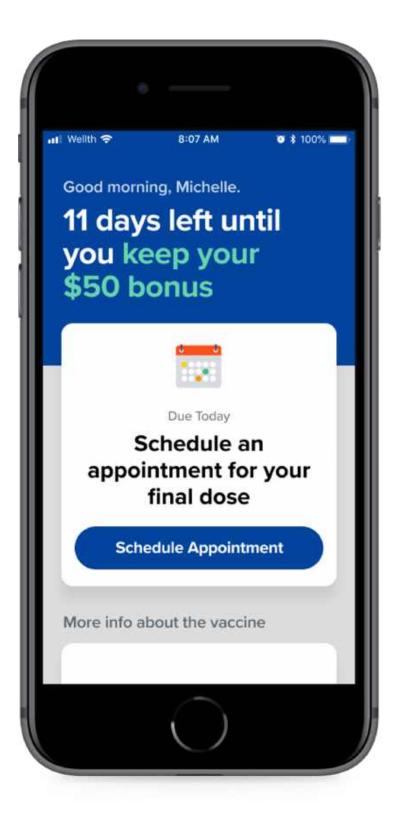
the all-important second dose. Studies show that 35%-60% of adults fail to get the second dose of a two-shot vaccine course, and herd immunity will be substantially delayed if many get just one of the two required injections of the Pfizer or Moderna vaccines. The Johnson & Johnson vaccine requires a single injection, so this concern could diminish later in 2021 if that vaccine proves effective. A separate SHRM survey last month found that while about two-thirds of U.S. employers planned to encourage employees to get vaccinated, only 3% have decided to require it for at least some workers. That could change, since 55% of employers said they were unsure if they would eventually require it, according to survey of 955 members of SHRM, an organization of about 300,000 human resource professionals.

An incentive would be better timed for later in 2021 when there is no vaccine shortage. If an employer offers an incentive for the COVID vaccine, it should be continued for any future required booster shots, as discontinuing an incentive can lead to a decline in the desired behavior.

# **Project Citadel:** Leveraging Principles of Behavioral Economics To Keep Communities Safe



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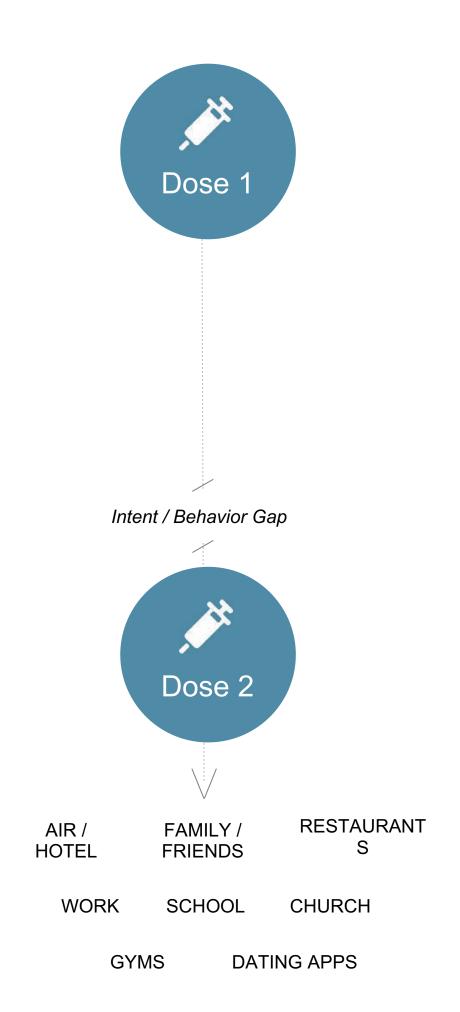


Educate, Incentivize, Inform - Help members understand where they are in vaccination queue - importance to maintain vigilence

Keep the 2nd dose and the resulting quality of life gains salient. Identify and mitigate motivational and environmental barriers (including misinformation!). Address individual concerns and societal barriers.

Maximize follow-through by converting momentum into key behavior while maintaining a sense of control.

Michelle **gets her life back** facilitated by Wellth's central certification, and proceeds to help others follow-through as well.



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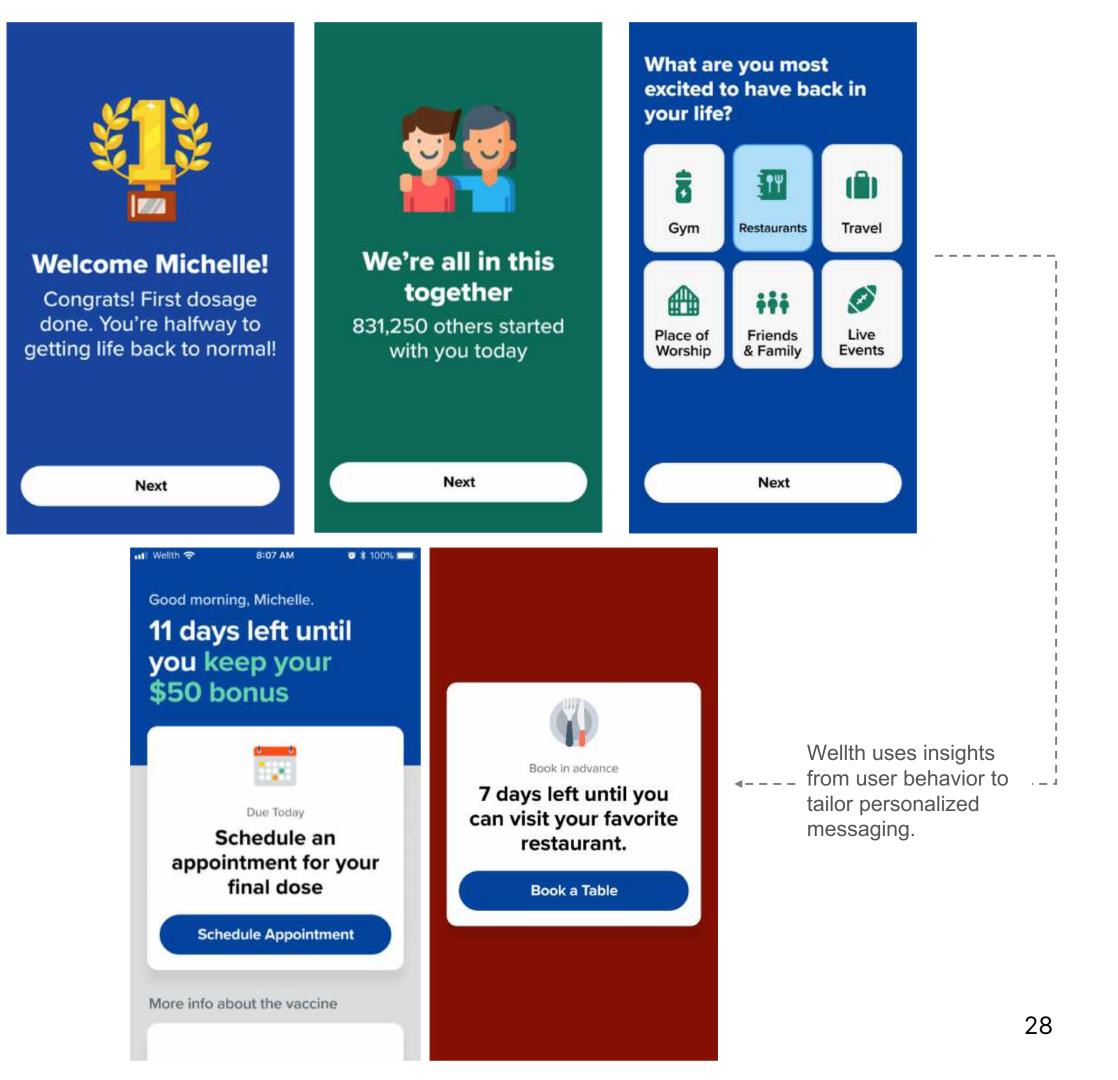
3

Through the use of applied behavioral science and technology, the platform ensures the completion of both vaccine doses by overcoming key behavioral and environmental challenges.



Build immediate **momentum** through "get life back" intrinsic motivation coupled with endowed financial rewards, tied to simple, fun education on what's next and why it's important.

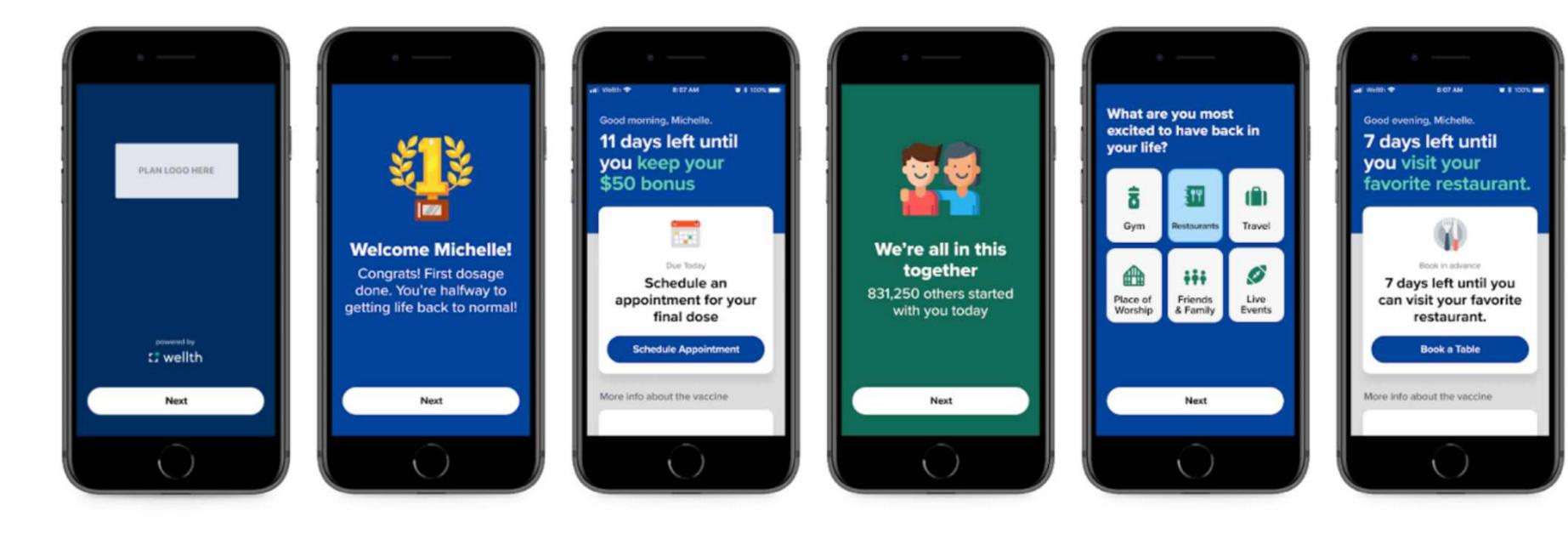
Keep the 2nd dose and the resulting quality of life gains salient. Identify and mitigate motivational and environmental barriers (including misinformation!).



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# A Flexible Journey for your Members that Allows for Changing Situations



29

# **Benefits to Health Payer - Ability to Adjust to Changing Circumstances & Improve Health Equity**

- **Safety:** reduction in community transmission and reduced strain on currently over burdened medical systems
- Reduce COVID infections and hospitalizations among most vulnerable
- Opportunity to **educate and personalize** the intrinsic and extrinsic motivators for individuals
- Site agnostic understanding of vaccination rates within your patient population in near real time and information regardless of the site of 1<sup>st</sup> or 2nd vaccine
   Guidance around hesitancy and a channel for vaccine education including addressing
- Guidance around hesitancy and a channel for vaccine ed social and societal factors leading to hesitancy
- Limit marketing from competitors and data capture from competitive entities
- \*Ability to guide members when vaccines are available for their "cohort"
- Rewards for people who are hurting financially and spent in your communities
- Once people are engaged ability to opt into continued program around building behaviors (med adherence, chronic condition management etc).

competitive entities or their "cohort" pent in your communities d program around building ement etc).

# **Wellth Project Citadel Platform Capabilities**

### **Description of Platform Capabilities**

Functionality across mobile, tablet, or personal computing device

#### Pre-first dose:

- Identification and verification of the individuals utilizing the • platform and the individuals' eligibility
- Eligibility ping to notify individuals they are now eligible to receive the first dose vaccine
- Identification of first dose information & cataloging via photo-text verification

#### Post-first dose:

motivations:

0

0

0

- Desire to see family 0
- Return to work 0
  - Attend live events
  - Meet at church
  - Eat in restaurants and bars, etc.
- Education about how the vaccine works and its potential
- Education about anticipated normal/safe side effects
- Reminders on scheduling second dose and its timing based on the first doses information
- Facilitate second dose appointment scheduling •
- Connection to additional resources and external support • services should individuals be concerned
- Updates as needed to misinformation or rumors that could ullethinder second dose
- Reporting on estimates of second dose completion rates lacksquare
  - Reward fulfillment from second dose verification (and other potential activities)
- Update on availability of the vaccine (where available)

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Individualized member experience denoting intrinsic

## **Proposed Rollout (Varying in Real Time)**

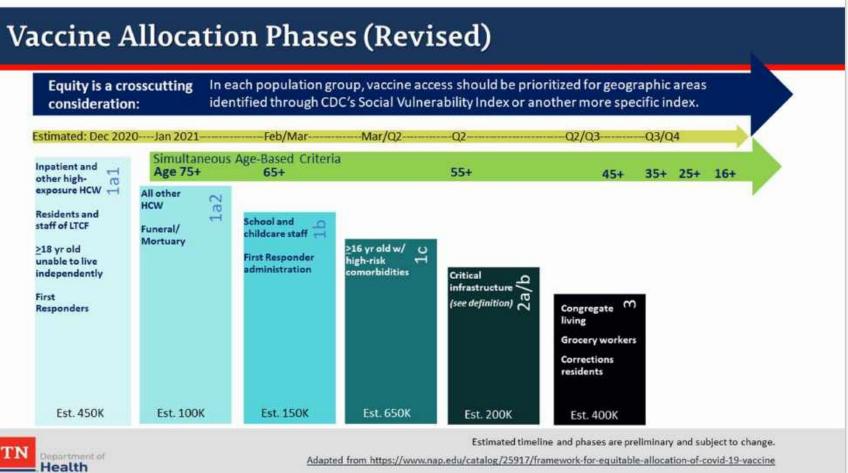


Phase 1 Estimated Timeline (Tiers A and B) Find out if it's your turn at FindYourPhaseWA.org



Equity is a crosscutting consideration:	
Estimated: Dec 202 Inpatient and other high- exposure HCW ↔ Residents and staff of LTCF ≥18 yr old unable to live independently First Responders	OJan 2021 Simultane Age 75+ All other HCW Funeral/ Mortuary
Est. 450K	Est. 100K
N Department of Health	

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## **Pricing Model - Completely Turn Key**

### Cost

<b>Required Fees</b>	
<ul> <li>\$75k Setup and Configuration - (includes co-branded web based platform)</li> <li>\$1 per member data management fee</li> <li>\$50 per member reward (pass through to member for successful 2nd vaccination</li> <li>\$5 Success fee to Wellth for verified second dose</li> </ul>	<ul> <li>Wellth line outbourne enroll he enroll he Co-brand material behalf of provided configure Targeted using we</li> </ul>

\*\*If SMS notification is desired/required - potential additional costs

### Optional

live agent or automated nd outreach calls to inform and ealth plan members nded promotional mailer Is mailed to members on of health plan (Proofs will be ed as part of setup and iration fee) ed advertising to members eb and social media channels



- Need critical mass of plans to say yes by January 30<sup>th</sup>  $\mathbf{01}$ 2021 to proceed
- No matter what capabilities being built into the Wellth Platform 02 (fully at risk pricing)
- Being as upfront as humanly possible because ability to do high volumes of 03 follow ups difficult
- We will adjust pricing down as much as possible based on volumes if 04 we hit threshold.
- Appreciate ACHP and all of you taking the time, we want to help and be part 05 of the solution, so we can all get our lives back

## **Tremendous Thank you**



### **V-BID** CENTER FOR VALUE-BASED INSURANCE DESIGN UNIVERSITY OF MICHIGAN

Questions

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# Thank you

# Matthew Loper

CEO, Wellth matt@wellthapp.com

# **Dinesh Apte**

CCO, Wellth dinesh@wellthapp.com

### C wellth

# Dr. Mark Fendrick

University of Michigan amfen@med.umich.edu



# 1: Problem (cont.): There are a number of factors that will prevent widespread vaccine adherence

https://www.cdc.gov/flu/fluvaxview/index.htm

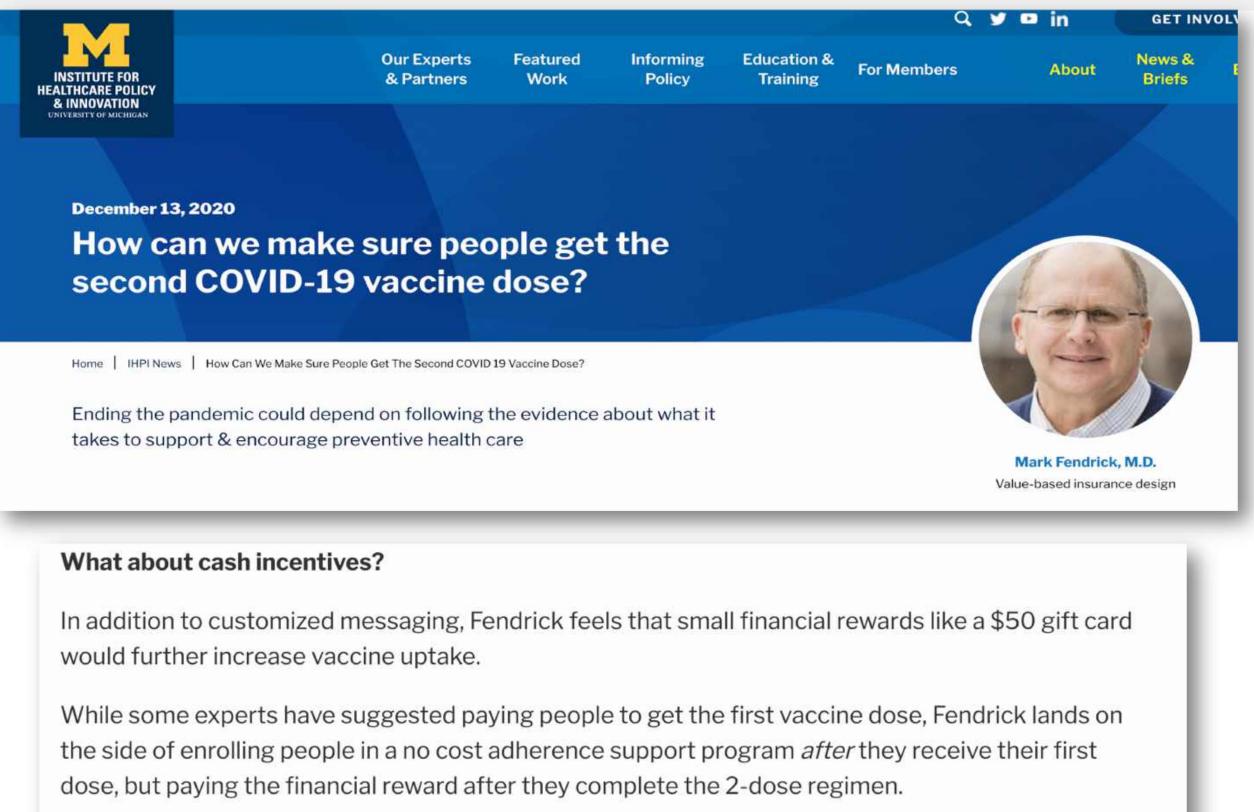
https://www.commonwealthfund.org/publications/issue-briefs/2020/dec/how-prepared-are-states-vaccinate-public-covid-19
https://khn.org/morning-breakout/what-side-effects-should-you-expect-from-the-covid-shot/
https://www.ajpmonline.org/article/S0749-3797(20)30284-1/fulltext
https://www.nytimes.com/2020/11/17/health/gallup-poll-coronavirus-vaccine.html
https://amp-theatlantic-com.cdn.ampproject.org/c/s/amp.theatlantic.com/amp/article/6171
https://www.washingtonpost.com/health/two-shots-covid-vaccine/2020/11/27/b852a19a-2f24-11eb-bae0-50bb17126614\_story.html

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## **Leading Experts Pointing Towards Behavioral Economics** Approach



"We need to focus the rewards for those who have made the effort to get both doses and for fulfilling their broader societal role in reducing the disease's impact."

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# No National Data on Second Dose Adherence for Vaccine (Too Early)

npr 🕨

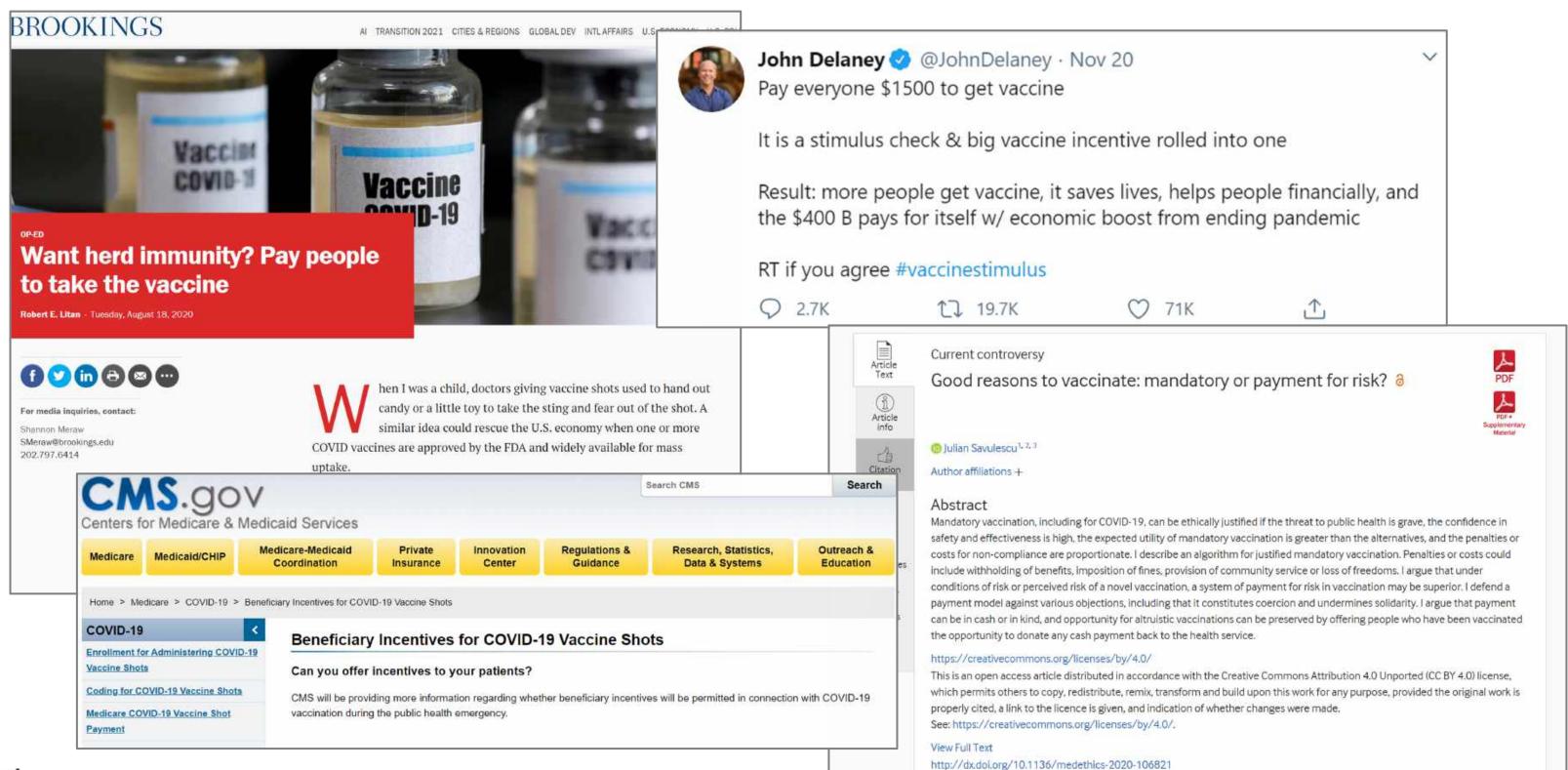
Injections Of Second Coronavirus Vaccine Doses Have Begun • 4:01

There is already a longstanding dilemma with vaccines that require multiple doses. Research shows that introducing one extra step leads to fewer people following through, says Dr. A Mark Fendrick, who directs the University of Michigan's Center for Value-Based Insurance Design.

"Since last summer, I've been concerned about this two shot problem," he says. Fendrick says the good news it that one of the biggest barriers, money, has largely been removed since the vaccine is being given for free, but there are still many other hurdles, whether that's taking time off work, concerns about extra side effects or a sense of "complacency that one is enough."

He recommends giving people personalized reminders about getting the shot and small financial rewards for completing the final dose. "We can't let the last leg of this remarkable COVID vaccine journey, this so-called two dose problem, stop us from the quest to get our lives back," he says.

## The concept of incentivizing COVID-19 vaccination back in Late 2020



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