



COVID-19: Responding with Data, Not Fear

Using Employee Benefits Data to Assess Risk

May 26, 2020



OUR PURPOSE

Turn the world's health data into great healthcare everyone can afford.

OUR APPROACH

We empower U.S. employers and their advisors to optimize health benefits using data.



Today's Presenters



Chris Savoie

 VP of New Products



Rance Hutchings, Pharm.D

 Chief Clinical Officer



Kim Stagner, RN

 Nurse Case Manager, Clinical Support



Rachel Myrer, MPH

 Healthcare Analyst

White House Guidelines for Opening Up America

	Phase 1	Phase 2	Phase 3
Social Distancing and PPE	✓	✓	✓
Temperature Checks and Sanitation	✓	✓	✓
Encourage Telework	✓	✓	
Special Accommodations for Vulnerable Populations	✓	✓	
Close Common Areas	✓	✓	
Minimize Non-Essential Travel	✓		
Return to Work in Phases	✓		

Source: www.whitehouse.gov/openingamerica/



Return to work philosophies

- Focus on preventative measures at work
- Allow individuals who are immune to go back to work

Ending Isolation for Infected Employees

Symptom-Based Strategy

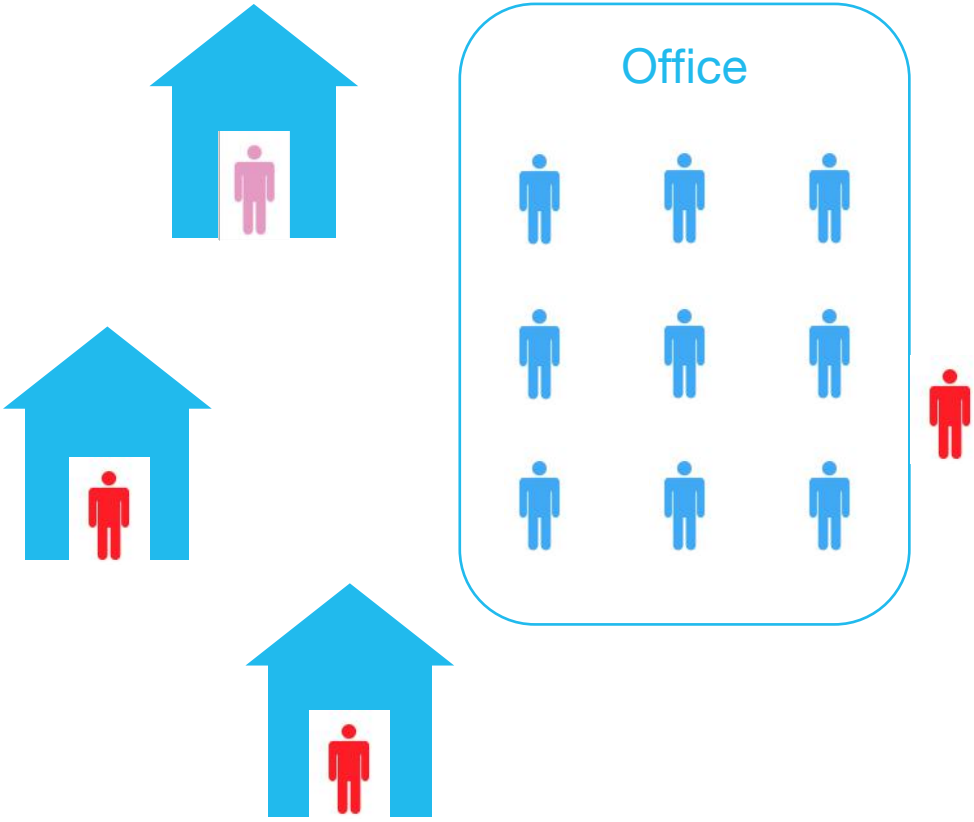
- 3+ days after resolution of fever without the use of fever-reducing medications **and** improved respiratory symptoms
- 10+ days after symptoms first appeared

Test-Based Strategy

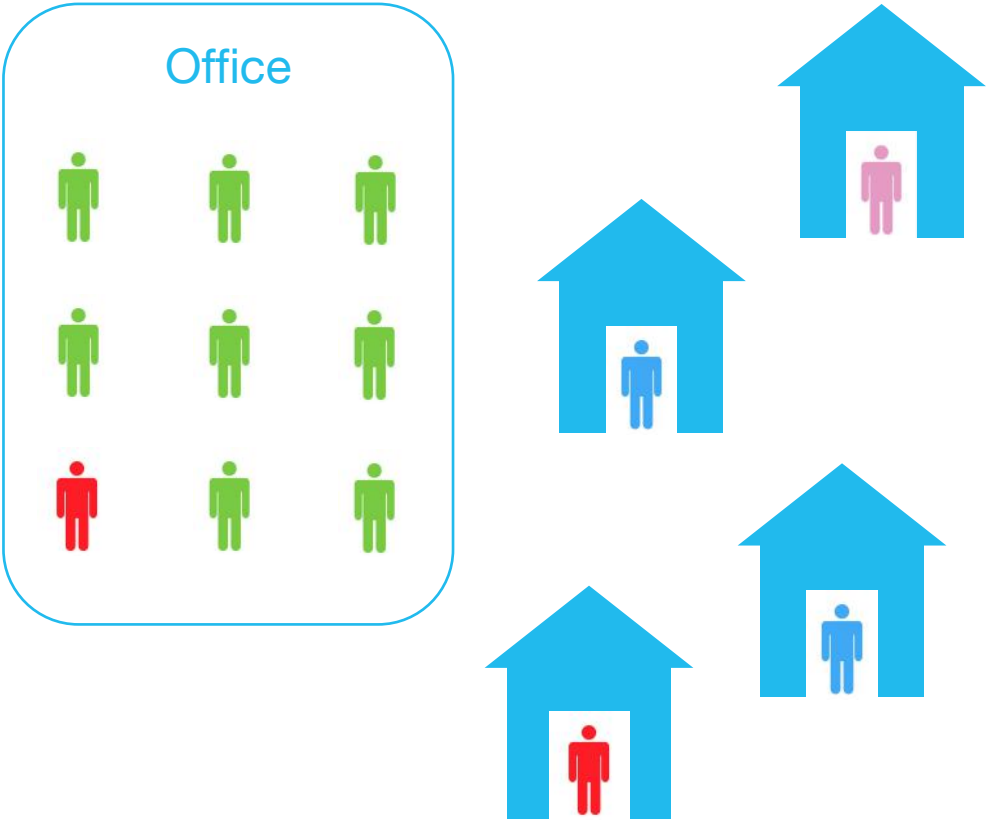
- Resolution of fever without the use of fever-reducing medications **and** improved respiratory symptoms
- Negative results from two FDA approved tests collected more than 24 hours apart

Source: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/disposition-in-home-patients.html>

Prevention



Immunity



COVID-19 Colliding with the Seasonal Flu

☰ CBS NEWS

CDC director says potentially worse second wave of coronavirus could come along with flu season

BY CHRISTOPHER BRITO
UPDATED ON: APRIL 23, 2020 / 11:45 AM / CBS NEWS

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"There's a possibility that the assault of the virus on our nation next winter will actually be even more difficult than the one we just went through," Redfield told the Post. "And when I've said this to others, they kind of put their head back, they don't understand what I mean."

"We're going to have the flu epidemic and the coronavirus epidemic at the same time," he added.



CDC director Robert R. Redfield seen April 16, 2020, in Washington, D.C.
GETTY

This year's flu season is largely over, with CDC currently reporting low flu activity in the U.S. While influenza viruses circulate all year, flu season typically begins between fall and winter, and the peak lasts from December to February. The numbers vary from year to year, but during the 2018-2019 flu season, the CDC estimated 35.5 million people in the U.S. got sick with influenza, 490,600 were hospitalized and 34,200 died of the illness.

CNBC

Dr. Anthony Fauci warns US could 'be in for a bad fall' if coronavirus treatments don't work

U.S. officials say that they are preparing to battle two bad viruses circulating at the same time as the coronavirus outbreak runs into flu season ...

3 weeks ago

FOX Carolina

Another wave of coronavirus will likely hit the US in the fall. Here's why and what we can do to stop it

Anthony Fauci during an Economic Club of Washington webinar earlier this week. Americans could be in for "a bad fall and a bad winter" if the ...

2 weeks ago

CNN

US could be in for 'a bad fall and a bad winter' if it's unprepared for a second wave of coronavirus, Fauci warns

(CNN) A second round of the coronavirus is "inevitable," the nation's top infectious disease doctor says, but just how bad it is will depend on the ...

In-Depth · 3 weeks ago

Viruses and Human Immunity

Viruses go inside healthy cells

An infected cell looks like a healthy cell

Adaptive immunity

Identifying new pathogens (like a virus) using antibodies

Preparing to immobilize them

- B cells – incapacitate viruses outside cells (humoral immunity)
- T cells – identify signs that a cell may not be a healthy cell → killing and engulfing the infected cell

Vaccine Approval Process

Before a Vaccine Goes to Market



Pre-Clinical Trials

Sponsor submits an Investigational New Drug (IND) application to the FDA

Clinical Trials

Phase 1: Safety and immunogenicity with a small group of closely monitored patients

Phase 2: Dosing range, usually with hundreds of patients

Phase 3: Effectiveness and side effects with thousands of patients

The FDA can halt the next trial if issues arise with the current trial

Approval and Going to Market



Post-Clinical Trials

- Submit a Biological License Application (BLA)
- Submit safety and efficacy data to the FDA for review and a risk/benefit analysis
- Facility undergoes pre-approval inspection
- Vaccine product labeling put forward

Market Approval

- ✓ Approved!
- ✗ Denied

After a Vaccine Goes to Market



Post-Market Monitoring

VAERS (Vaccine Adverse Event Reporting System) where medical providers can report adverse events

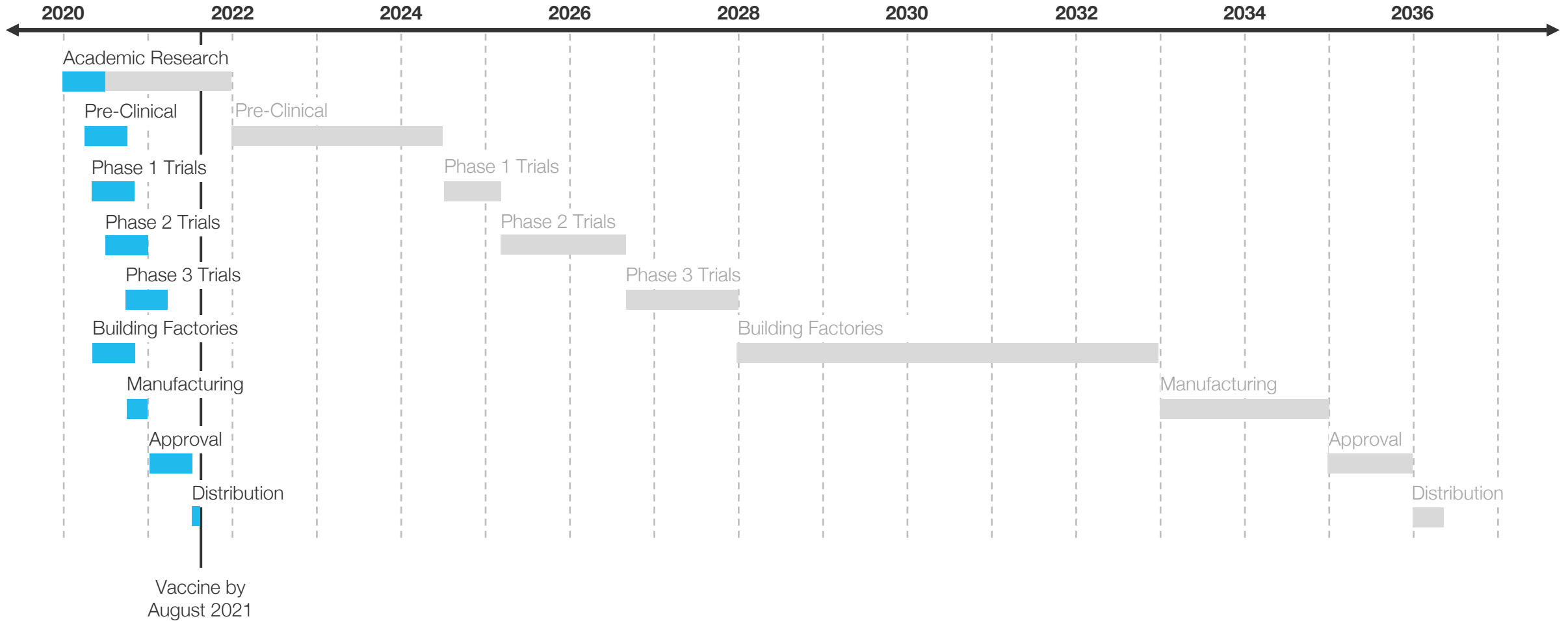
Clinical Trials

Phase 4: Continued trials to look for rare side effects that may not have been seen in phases 1-3

Quality Control

- Testing lots of vaccine for purity and dosing consistency
- Ensuring good manufacturing, cleanliness, etc.

Timeline



Source: <https://www.nytimes.com/interactive/2020/04/30/opinion/coronavirus-covid-vaccine.html>

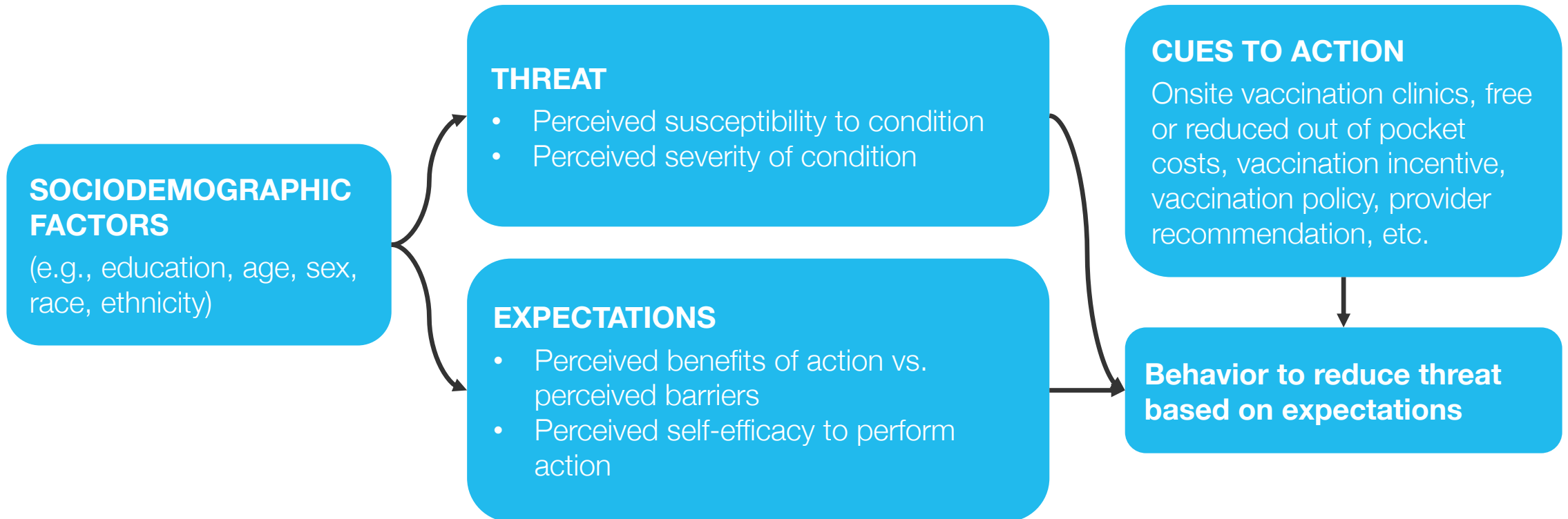
Health Belief Model

Rosenstock, Stretcher, and Becker - 1988

BACKGROUND

PERCEPTIONS

ACTION



Immunization Strategy

- ✓ Know your flu vaccination rates
- ✓ Provide easy access
- ✓ Dispel rumors and have an educational push
- ✓ Apply phasing to stratification

Looking at Your Immunization Data

See Artemis in Action



Knowing your population's flu vaccination rates could help you predict the number of employees who will receive a vaccine for the Coronavirus when it's available.

Please note, we are not suggesting people who receive a flu shot are immune to COVID-19

Considerations for Employers and Advisors

- 1 | Know thyself
- 2 | Study your data and monitor trends
- 3 | Identify populations at risk
- 4 | Create a return to work plan
- 5 | Educate and dismantle myths

Thank you!



Learn more on our COVID-19 resources page at artemishealth.com/covid19



Join us June 9 - 11 for a three-part Return to Work series.



“In times of stress, the best thing we can do for each other is to listen with our ears and our hearts and to be assured that our questions are just as important as our answers.”

- Fred Rogers

Q&A

Ask our experts your questions.

Thank you.

