



November 4th

# COVID-19 TOWN HALL

# Agenda

- COVID-19 State and National Updates
- COVID-19 Vaccines Update
  - *Dr. Karen Lewis- Medical Director, Arizona Immunization Program Office- Arizona Department of Health Services*
- Q & A



# State and National Updates

Kelly Fine

Executive Director | Arizona Pharmacy Association

# Worldwide Cases

JOHNS HOPKINS  
UNIVERSITY & MEDICINE

CORONAVIRUS  
RESOURCE CENTER



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)

Global Cases

**47,521,750**

Cases by Country/Region/Sovereignty

**9,385,324** US  
**8,313,876** India  
**5,566,049** Brazil  
**1,680,579** Russia  
**1,461,391** France  
**1,259,366** Spain  
**1,195,276** Argentina  
**1,099,392** Colombia  
**1,077,099** United Kingdom  
**938,405** Mexico  
**902,503** Peru  
**759,829** Italy  
**728,836** South Africa

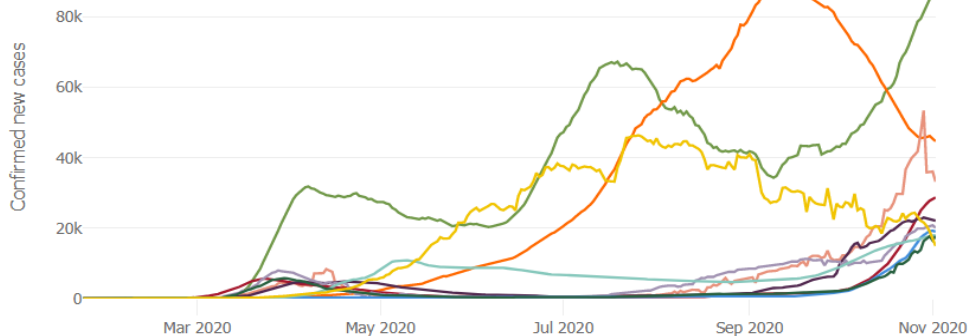
Admin0

Admin1

Admin2

## DAILY CONFIRMED NEW CASES (7-DAY MOVING AVERAGE)

Outbreak evolution for the current 10 most affected countries



Click any country below to hide/show from the graph:

US India France Italy  
United Kingdom Spain Poland Russia  
Germany Brazil

Global Deaths

**1,215,756**

232,635 deaths  
US

160,496 deaths  
Brazil

123,611 deaths  
India

92,593 deaths  
Mexico

47,340 deaths  
United Kingdom

39,412 deaths  
Italy



Global Deaths



US State Level

Deaths, Recovered

33,543 deaths, **79,990**  
recovered  
New York US

18,632 deaths, **792,286**  
recovered  
Texas US

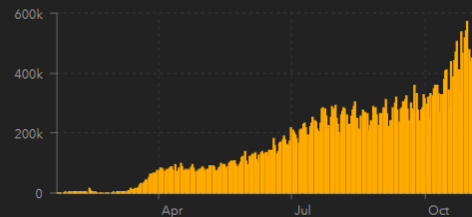
17,752 deaths, **recovered**  
California US

16,890 deaths, **recovered**  
Florida US

16,371 deaths, **37,394**  
recovered  
New Jersey US



US Deaths, Recovered



# National Cases



Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™

USA

**9,268,818**

**TOTAL CASES**

+86,190 New Cases

CDC | Updated: Nov 3 2020 1:24PM

USA

**230,893**

**TOTAL DEATHS**

+510 New Deaths

CDC | Updated: Nov 3 2020 1:24PM

USA

**2,801**

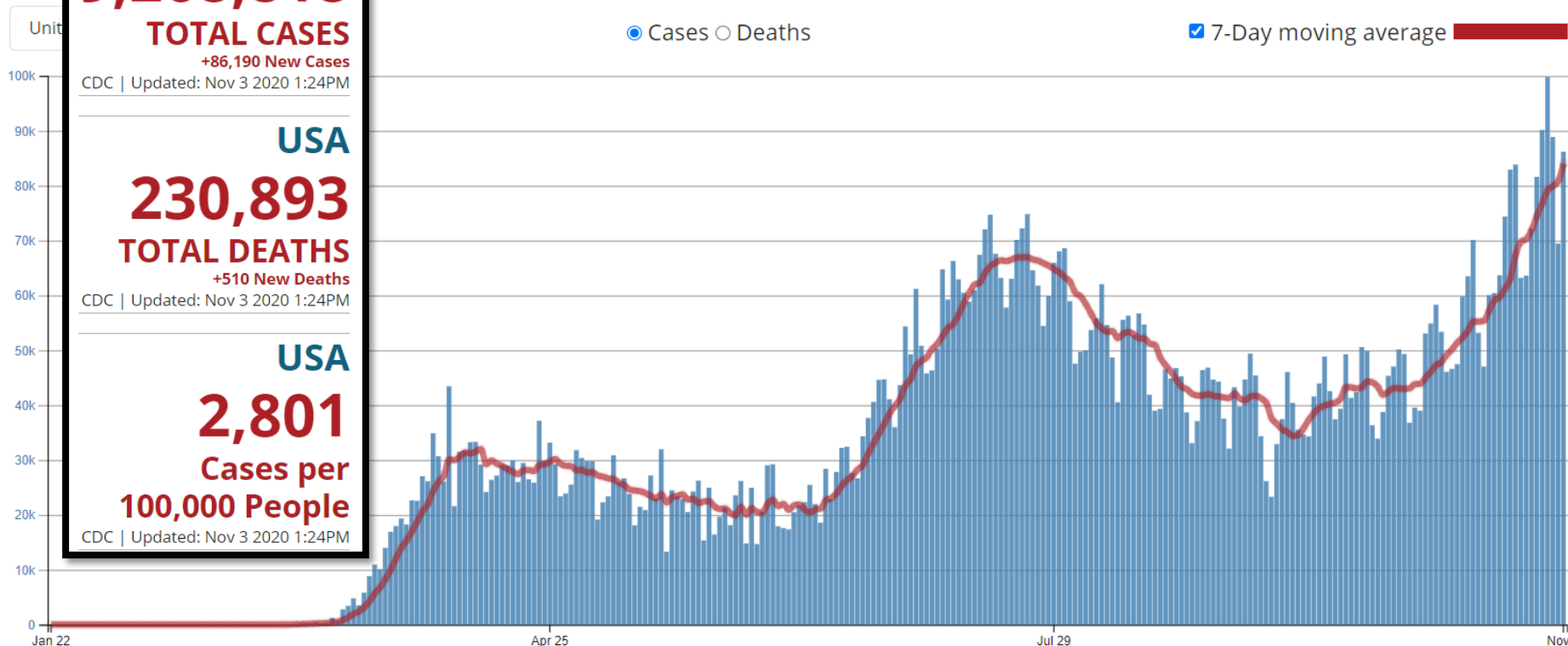
**Cases per  
100,000 People**

CDC | Updated: Nov 3 2020 1:24PM

Daily Trends in Number of COVID-19 Cases in the United States Reported to CDC

● Cases ○ Deaths

☒ 7-Day moving average



# Daily confirmed new cases (3 day moving average)

Daily New Cases per 100k people. Data shown from 1/22/20 to 11/3/20.



## Cases per US State (Deaths)

<b>950,302</b>	Texas (18,632)
<b>945,314</b>	California (17,745)
<b>816,700</b>	Florida (16,890)
<b>513,689</b>	New York (33,543)
<b>436,265</b>	Illinois (10,161)
<b>364,589</b>	Georgia (8,029)
<b>280,377</b>	North Carolina (4,457)
<b>266,357</b>	Tennessee (3,454)
<b>249,818</b>	Arizona (6,020)
<b>242,825</b>	New Jersey (16,371)
<b>238,052</b>	Wisconsin (2,099)
<b>226,127</b>	Ohio (5,363)
<b>220,074</b>	Pennsylvania (8,842)
<b>207,763</b>	Michigan (7,761)
<b>195,929</b>	Alabama (2,987)
<b>191,223</b>	Missouri (3,043)



## Arizona

[Tweet](#) [Share](#)

Current  $R_t$

**1.12**

Cases

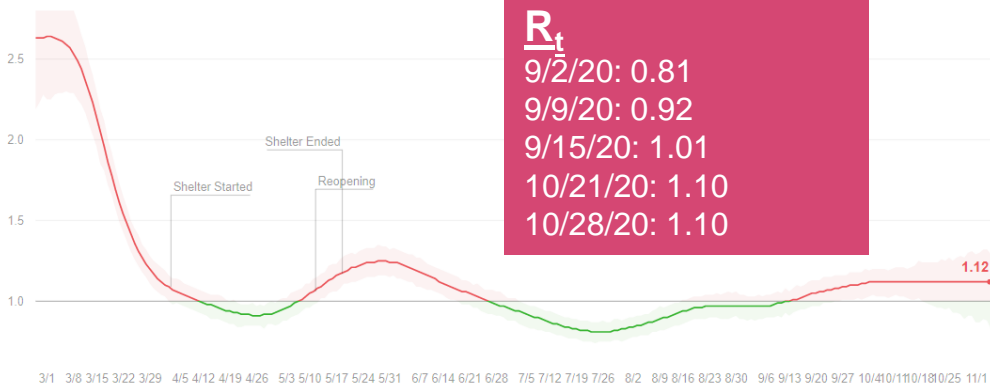
**248,137**

Tests

**1,792,573**

### Effective Reproduction Rate · $R_t$

$R_t$  is the average number of people who become infected by an infectious person. If it's above 1.0, COVID-19 will spread quickly. If it's below 1.0, infections will slow. [Learn More](#)



Number of  
Cases

249,818

Number of  
Deaths

6,020

Number of  
COVID-19 Tests

2,124,628

Number of New Cases  
reported today\*

1,679

Number of New Deaths  
reported today\*

38

Number of New Tests  
reported today\*

11,071

Rate of cases, per 100,000  
population

3,475.0

Rate of fatalities, per  
100,000 population

83.74

Total Percent Positive\*\*

9.6%

Total COVID-19 Diagnostic  
Tests\*\*\*

1,803,235

New Diagnostic Tests  
reported today\*

10,630

Diagnostic Tests Percent  
Positive\*\*

10.1%

Total COVID-19 Serology  
Tests

321,393

New Serology Tests reported  
today\*

441

Serology Percent Positive\*\*

6.5%

# Arizona-Cases by Day

## New Cases ⓘ ↑

New daily cases

Weekly trend



THIS WEEK LAST WEEK



+666 new

## Tests per 1,000 people ↑

Daily Tests

Weekly trend



THIS WEEK LAST WEEK

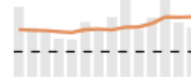


1.5 tests per  
1,000

## Percent Positive ⓘ ↑

Daily % positive

Above threshold?



THIS WEEK LAST WEEK



11.8%  
positive

**Trending up** — from the previous week to this week the trend is going up and greater than 5%

**No change** — from the previous week to this week the trend is staying relatively flat (between -5% and 5%)

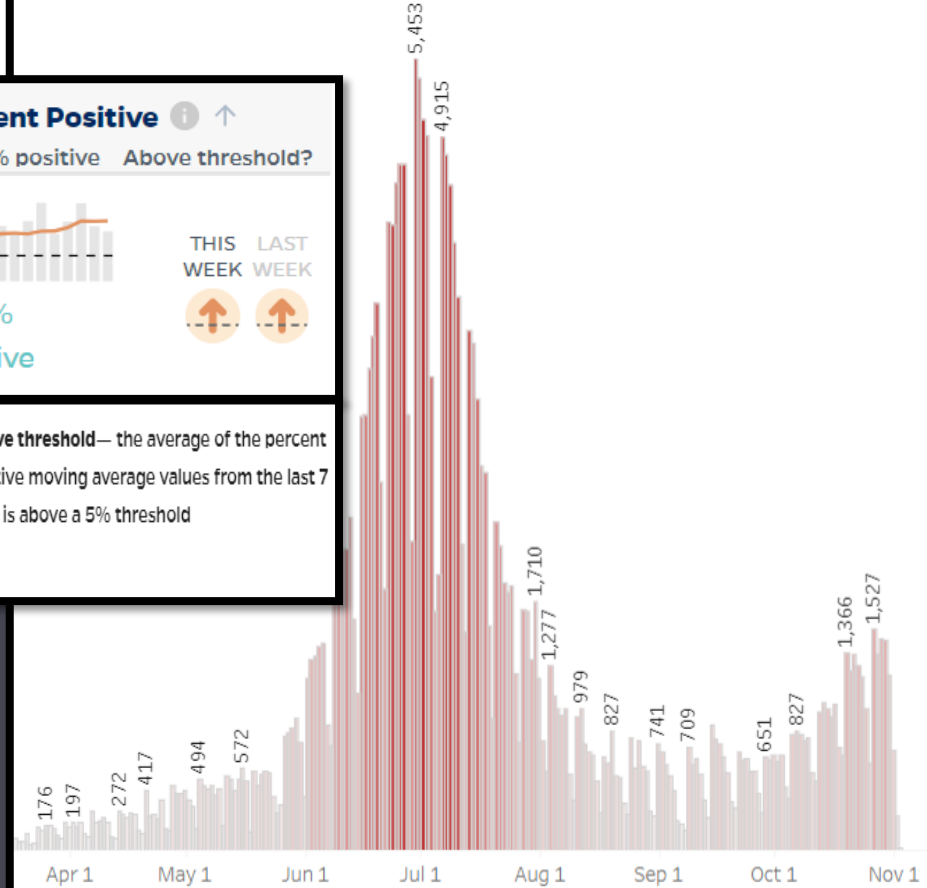
**Above threshold** — the average of the percent positive moving average values from the last 7 days is above a 5% threshold

## Schools

**Moderate:** all counties but Greenlee (minimal =in person) are in moderate range = hybrid teaching

## Businesses

**Moderate:** all counties but Greenlee (minimal) are in moderate transmission category.





# Laboratory Testing



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Diagnostic tests completed for COVID-19

1,803,235

Diagnostic tests reported yesterday in Arizona

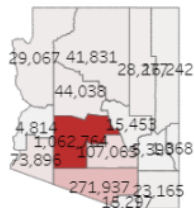
10,630

Total % Positive COVID-19 Diagnostic Tests

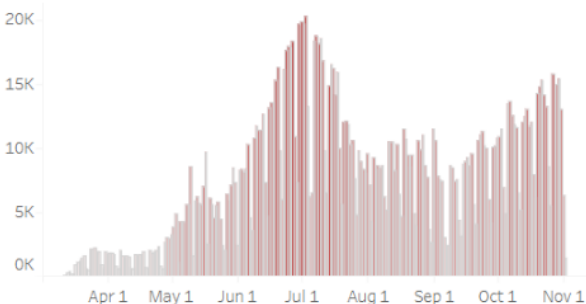
10.1%

Diagnostic tests by county

Select a county to filter the data. Hover over a county for more details.



Diagnostic tests by date of collection



**Weekly PCR Positivity %**

6/28/20 = 21%

7/5/20 = 19%

7/12/20 = 16%

7/19/20 = 12%

7/26/20 = 10%

8/2/20 = 8%

8/9/20 = 6%

8/23/20-10/4/20: 4%

10/11/20: 5%

10/18/20: 6%

10/25/20: 8%

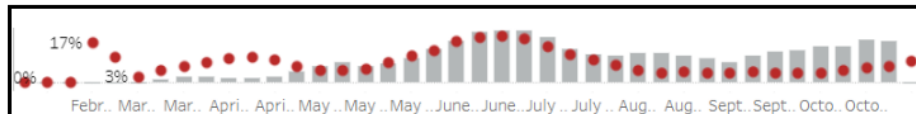
11/1/20: 9%

COVID-19 tests completed and percent positive by week

Percent positive is defined as number of people with a positive test result, reported electronically out of all people with COVID-19 testing reported. Include PCR and antigen testing.

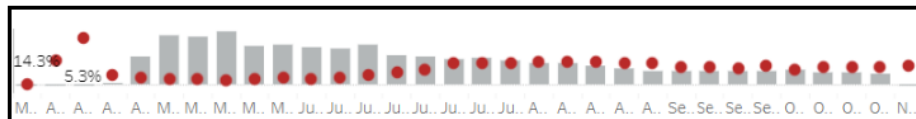
Total % Positive COVID-19 Diagnostic Tests

10.1%



Total % Positive COVID-19 Serology Tests

7.0%



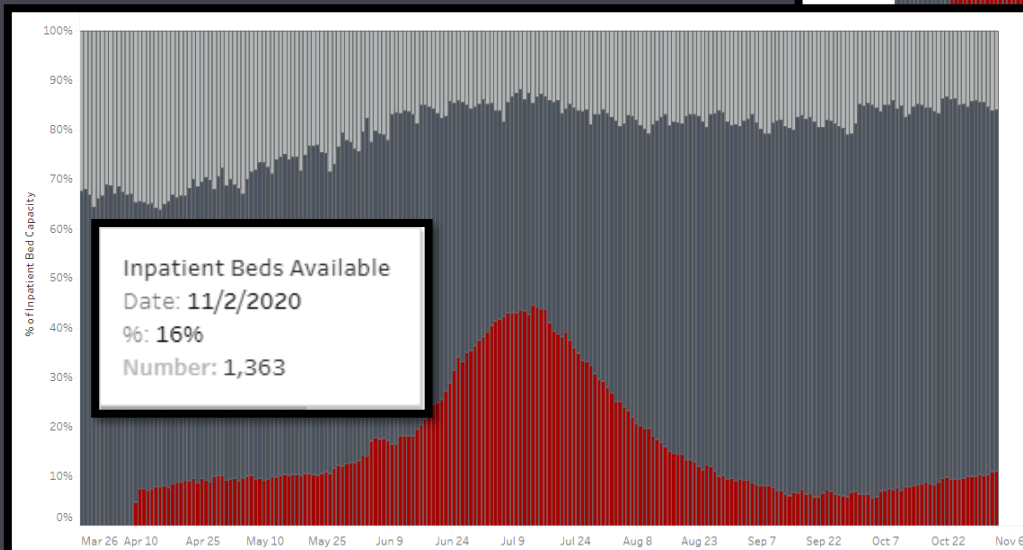
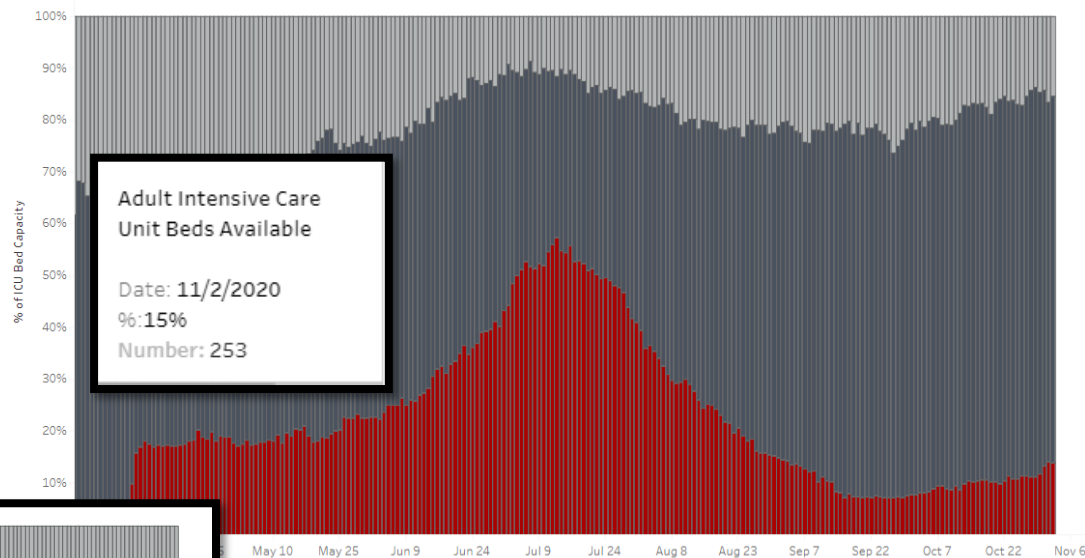
Date	Positive Diagnostic %
6/17/20	8.7%
6/24/20	10.5%
7/1/20	12%
7/8/20	13.6
7/15/20	14.2%
7/22/20	14.6%
7/29/20	14.6%
8/5/20	14.4%
8/11/20	13.9%
9/1/20	12.6%
9/8/20	12.2%
9/15/20	11.9%
10/20/20	10.4%
10/27/20	10.2%
11/3/20	10/1%

# Hospital Bed Usage & Availability



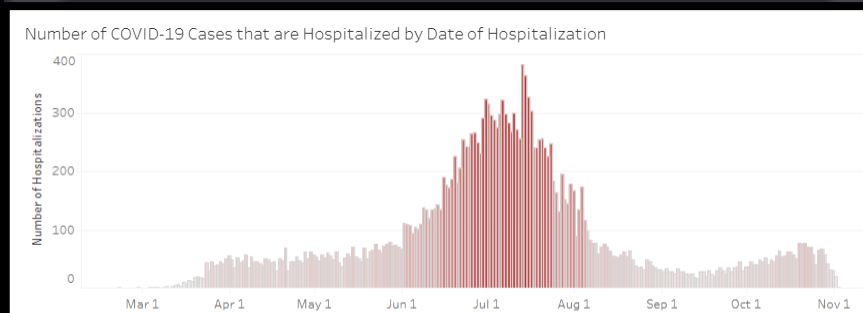
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	Beds Available
	Beds in use by non-COVID patients
	Beds in use by COVID patients



Percent of Cases Hospitalized

9%



# HHS Partners with CVS and Walgreens to Provide COVID-19 Vaccine to Long-Term Care Facilities

- [HHS and DOD announced a CDC partnership](#) with CVS and Walgreens to provide vaccine services in nursing homes and assisted living once a COVID-19 vaccine has been approved and authorized.
- **Facilities can partner with CVS, Walgreens, [or existing LTC pharmacy](#) and indicate what that is. The program is not limited to CVS and Walgreens.**
- Facilities need to sign up between October 19<sup>th</sup>-November 6<sup>th</sup> and indicate their pharmacy preference through the [NHSN portal](#). Assisted living facilities will indicate their pharmacy preference through an [online sign-up form](#).
- [FAQ](#)

# ROPA- (Referring, Ordering, Prescribing and Attending)

The [Patient Protection and Affordable Care Act \(ACA\)](#) and the [21st Century Cures Act \(Cures\)](#) require that all health care providers who provide services to, order (refer), prescribe, or certify health care services for AHCCCS members must be enrolled as an AHCCCS provider.

- Until these Acts passed, referring, ordering, prescribing and attending providers were required to obtain a National Provider Identifiers (NPI's) but were not required to be enrolled as an AHCCCS provider.
- **After Jan. 1, 2021 claims which include referring, ordering, prescribing or attending providers who are not enrolled with AHCCCS will not be reimbursed.**

[CLICK HERE](#)

# ROPA-Continued

- AHCCCS informed us that pharmacists do **NOT** have to register with AHCCCS as providers as we discussed on the call. They have created an exception process and are in the process of gathering immunization trained pharmacist's NPI's, State Board of Pharmacy license numbers, and necessary demographic information.
- If you work for Fry's, Safeway/Albertsons, Walgreens, CVS, Walmart, Bashas, or Costco: your company will be working directly with AHCCCS to provide this information on your behalf therefore you do **NOT** need to do anything.
- **If you are an immunization trained pharmacist (or will be before January 1, 2021) that works for another pharmacy who plans to offer vaccines to AHCCCS members please fill out this survey and I will submit the information to AHCCCS to follow-up on.**

[CLICK HERE TO COMPLETE SURVEY](#)

# CMS Issues Rule Clarifying that All Public and Private Health Plans Must Cover Cost Sharing and Administration for FDA Approved or Authorized COVID-19 Vaccines

- Any FDA or EUA COVID-19 vaccine will be covered.
- The COVID-19 vaccine will be free for patients and providers. Providers will be paid an established fee for administration for Medicare patients, and a “reasonable” administration fee is suggested for Medicaid and commercial plans.
- If a patient is enrolled in a Medicare Advantage (MA) plan, the COVID-19 vaccine provider should bill Medicare Part B.
- Pharmacies providing COVID-19 vaccine to Medicare patients must be an enrolled Medicare provider or a mass immunizer with Medicare.
  - <https://www.cms.gov/medicare/covid-19/enrollment>

# CDC updates- Interim Guidance for Routine and Influenza Immunization Services during the COVID-19 Pandemic

New guidelines recommend postponing all vaccination visits for the following individuals:

- **Asymptomatic and pre-symptomatic persons who have tested positive:** 10 days from a positive test result
- **Symptomatic persons:** Met criteria to discontinue isolation; 10 days after symptom onset and 24 hours with no fever without the use of fever-reducing medications, and COVID-19 symptoms improving; and no longer moderately to severely ill
- **Persons exposed to a person with COVID-19:** After 14-day quarantine period has ended

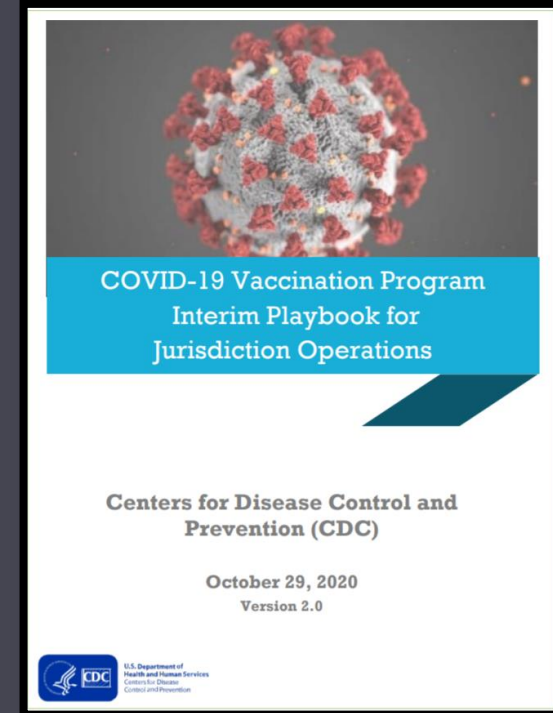
**Added new section:**

- Additional Considerations for Influenza Vaccination of Persons in Healthcare Facilities and Congregate Settings during the COVID-19 Pandemic

# CDC COVID-19 Playbook 2.0

CDC has released an updated playbook for distribution of the COVID-19 vaccine which includes:

- Updated information on the federal pharmacy partnership for COVID-19 vaccination in long-term care (LTC) facilities and information on federal direct allocations to pharmacy partners in Phase 2 of vaccine distribution and administration.
- Direct allocation opportunities will be provided to retail chain pharmacies and networks of community pharmacies (minimum of 200 stores) and of independent pharmacies through PSAO's.





# Overview of COVID-19 Vaccines

November 4, 2020

Presenting To

AzPA Town Hall | Phoenix AZ

Karen Lewis, M.D. | AIPO Medical Director

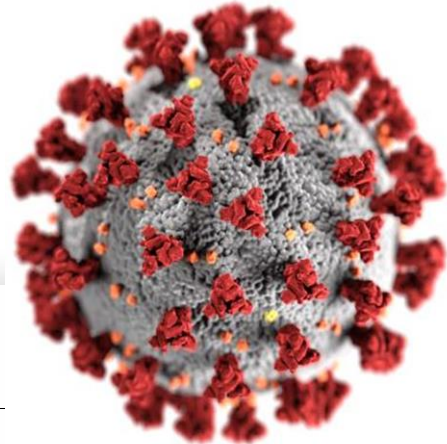


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# Coronaviruses

- Common colds (4)
- Severe Acute Respiratory Syndrome (SARS)
- Middle East Respiratory Syndrome (MERS)
- 2019 Novel Coronavirus



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# Operation Warp Speed for COVID-19 Vaccines



RESOURCES



COLLABORATION

**FDA**  
**EUA**

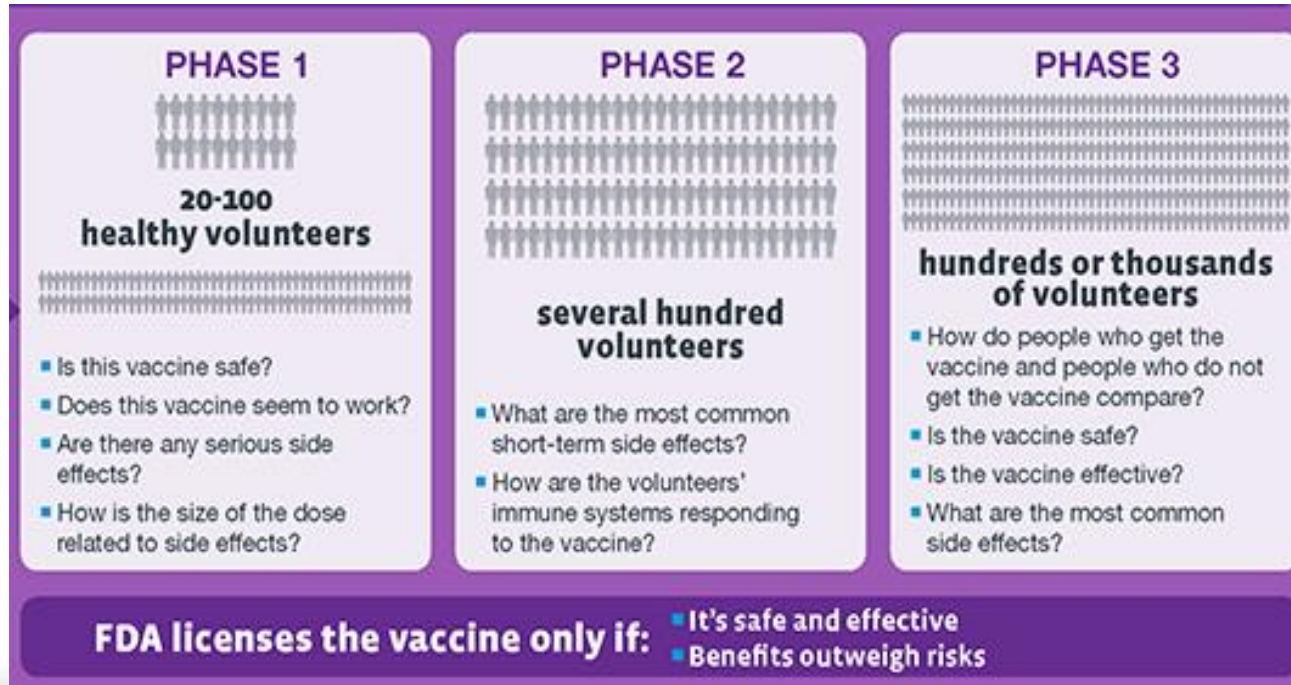
APPROVAL



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# Vaccine Development



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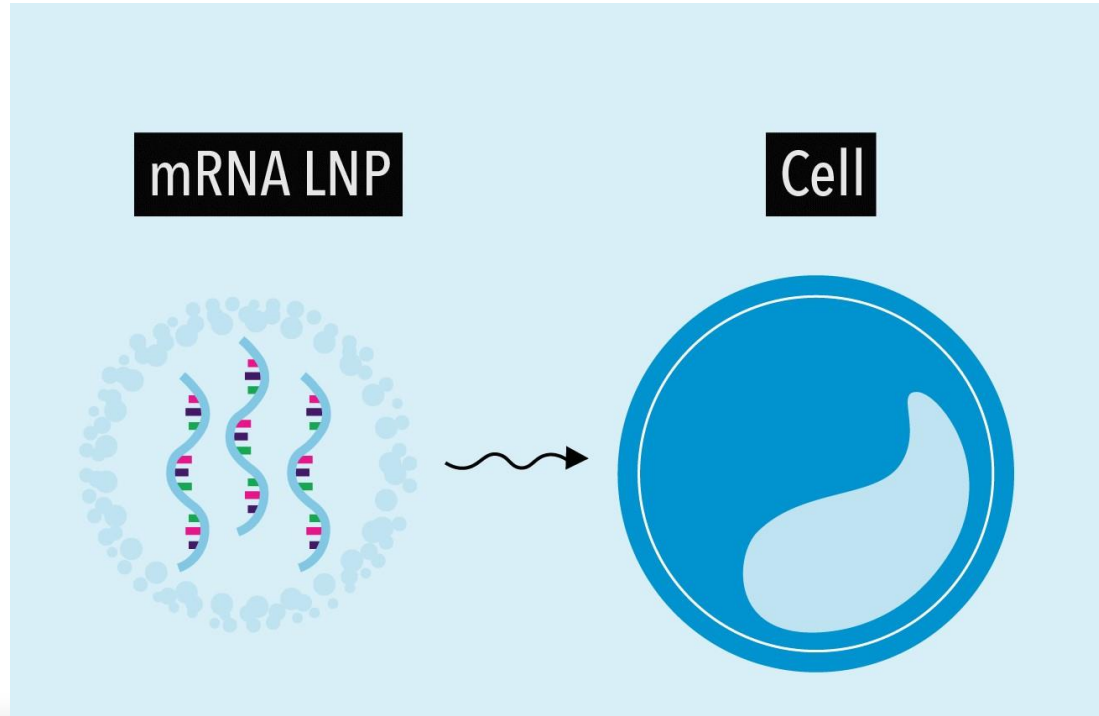
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# Vaccines in Phase 3 Clinical Trials

- Pfizer
- Moderna
- AstraZeneca (U of Oxford)
- Janssen



# mRNA COVID-19 Vaccines

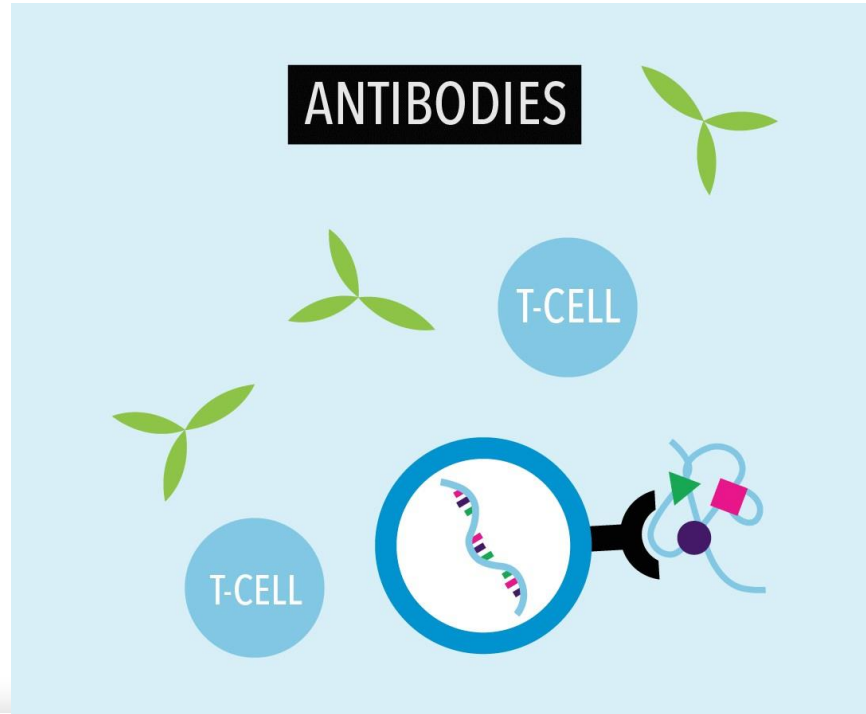


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Pfizer diagram

# mRNA Codes for Spike Protein



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Pfizer diagram

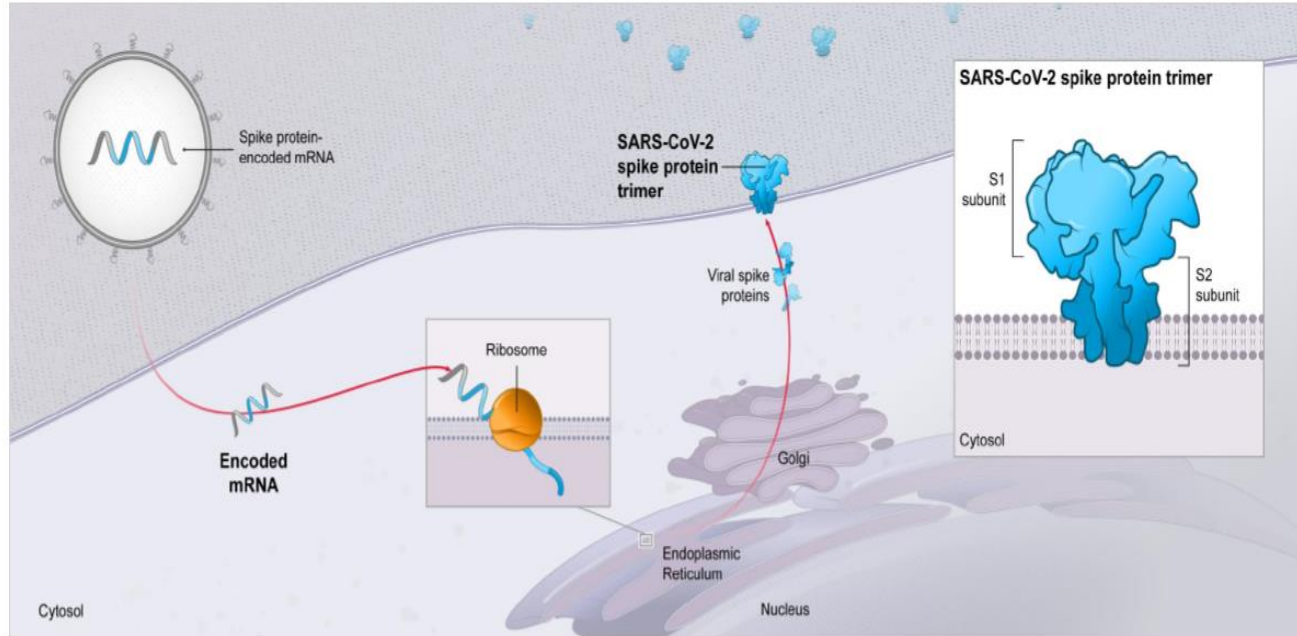
# Pfizer (mRNA)

- 2 doses scheduled  $\geq 21$  days apart
- Five doses in each MDV
- Shipped in trays of 195 vials (~1,000)
- Needs  $-70^{\circ}$  C for storage and handling
- $2^{\circ}$  to  $8^{\circ}$  C for up to 5 days
- Dilution at point of use (use in 6 hours)





# mRNA-1273 encodes for the full-length Spike Protein in the Pre-fusion Conformation (S-2P)



Miller, ACIP, August 26, 2020

moderna Slide 3



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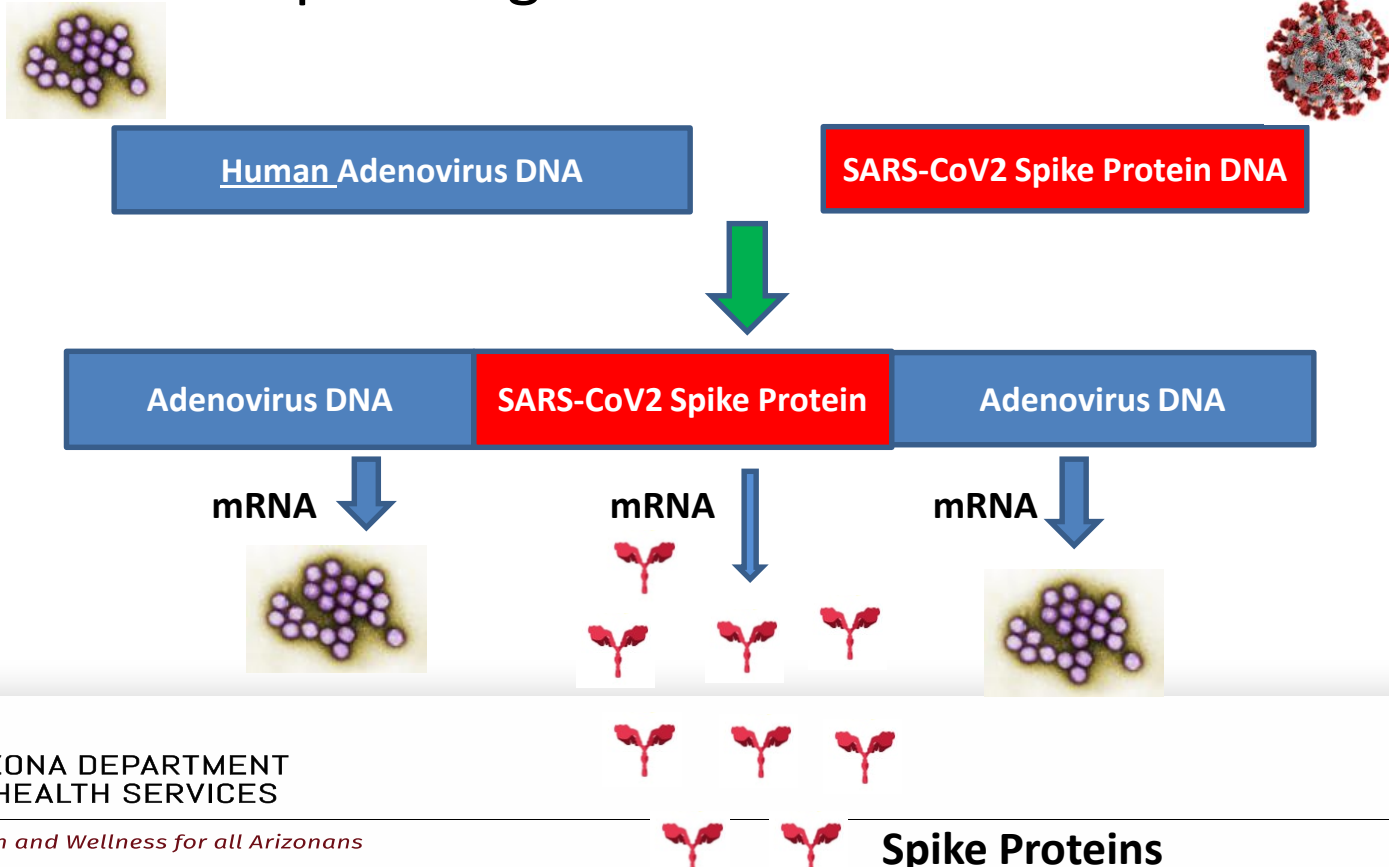
# Moderna (mRNA)

- 2 doses scheduled  $\geq$  28 days apart
- 10 doses in each MDV
- Shipped in boxes of 10 MDV (100 doses)
- Needs -20° C for storage and handling
- 2° to 8° C for up to 14 days
- No dilution



# Janssen COVID-19 Vaccine

## Non-replicating Recombinant Adenovirus



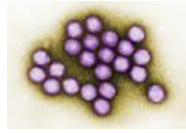
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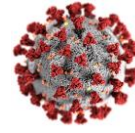
**Spike Proteins**

# AstraZeneca COVID-19 Vaccine

## Non-replicating Viral Vector



Chimpanzee Adenovirus DNA



SARS-CoV2 Spike Protein DNA

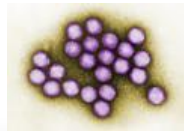


Chimp Adenovirus DNA

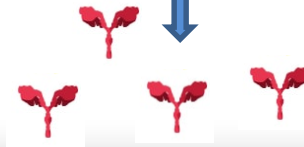
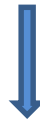
SARS-CoV2 Spike Protein

Chimp Adenovirus DNA

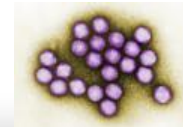
mRNA



mRNA



mRNA



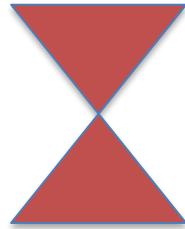
**Spike Proteins**



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# COVID-19 Vaccine (Novavax) Spike Proteins + Adjuvant



**Spike proteins**



**ADJUVANT**

- Starting phase 3 soon
- Storage at 2°-8° C
- Two doses

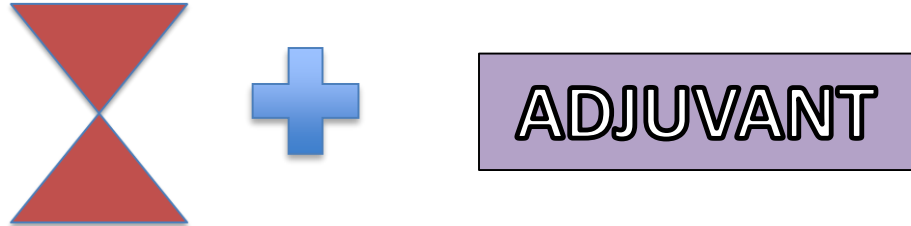


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# Sanofi Pasteur COVID-19

- Recombinant spike protein with GSK adjuvant
  - Phase 1/2
  - Storage at 2-8° C
  - 2 doses



- Also developing a mRNA vaccine



# Inovio COVID-19 Vaccine

- DNA plasmid
- Given with electroporation
- Phase 2
- Stable at room temperature for 1 year
- Two doses

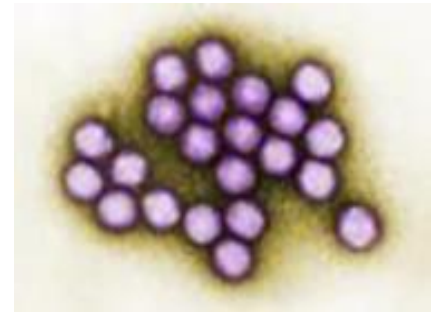


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# Vaxart COVID-19 Vaccine

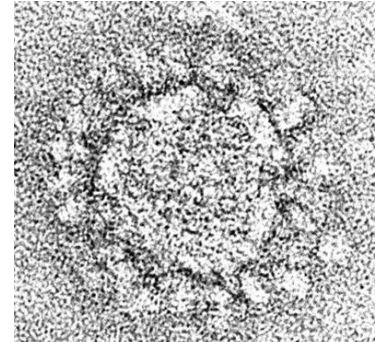
- Non-replicating human adenovirus 5 with adjuvant
- Tablet for oral administration
- Phase 1
- Stable at room temperature
- Two doses





# Medicago COVID-19 Vaccine

- Viral-like particle with adjuvant
- Phase 1 trial
- Stable at 2-8° C
- Two doses

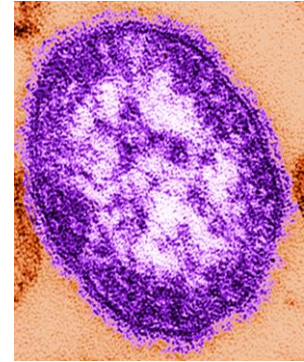


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# Merck Measles COVID-19 Vaccine Vector

- SARS-CoV-2 spike proteins expressed on measles virus surface
  - Phase 1 trial
  - 1-2 doses
- 
- Merck is also developing a recombinant vesicular stomatitis virus COVID-19 vaccine

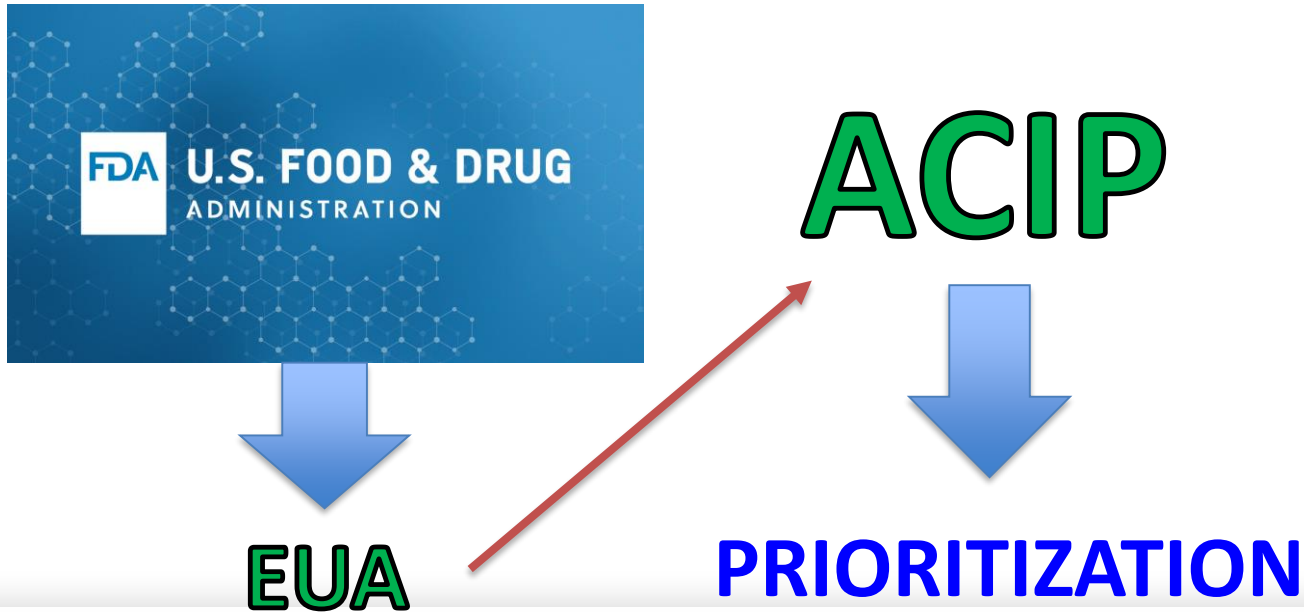


# Current Vaccines with Related Platforms

- MMR (RNA)
- Varicella vaccine (DNA)
- Hepatitis B vaccine (Recombinant)
- HPV vaccine (VLP)
- Flublok (baculovirus vector)
- Fluad quadrivalent (adjuvant)



# Rate Limiting Steps



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# Vaccine and Antiviral Prioritization Advisory Committee in 2020



GOVERNO  
R



**VAPAC**



**ALHOA**



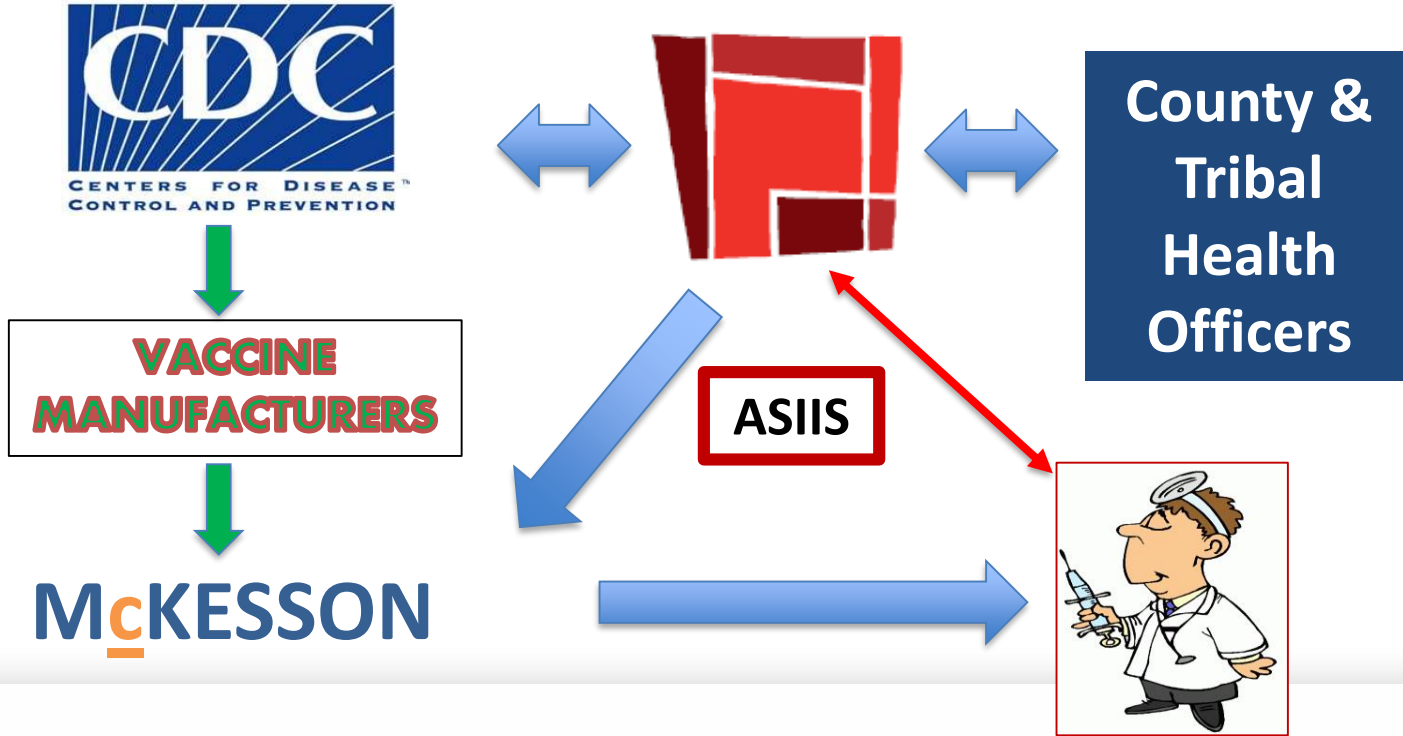
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**IHS**

# Pandemic Vaccine Distribution



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**Pre-register at ASIIS**

**Provider Onboarding at  
ASIIS Home Page**  
**<https://asiis.azdhs.gov>**



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**Arizona Immunization Program Office**

# **COVID-19 VACCINE**

## **PROVIDER ONBOARDING CAMPAIGN**

**WE WANT TO BE PREPARED AND ENGAGE OUR PARTNERS  
NOW, SO WE ARE READY WHEN VACCINES ARE AVAILABLE  
FOR DISTRIBUTION IN ARIZONA.**

**BOTH VFC AND NON-VFC PROVIDERS WHO WOULD LIKE TO  
ADMINISTER FUTURE COVID-19 VACCINES MUST COMPLETE  
THE PANDEMIC PROVIDER ONBOARDING SURVEY FORMS.**

**FOLLOW THE LINK BELOW TO ACCESS THE  
PANDEMIC VACCINE PROVIDER ONBOARDING SURVEY FORMS**



**[HTTPS://REDCAP.LINK/ONBOARD](https://redcap.link/onboard)**

Questions?