

COVID-19 Vaccination Update

Wednesday, March 24, 11am-12pm EST Presenter:

Jane Kelly, MD Assistant State Epidemiologist South Carolina Department of Health and Environmental Control

This webinar is being recorded.

The webinar recording and presentation will be available after the webinar.



Palmetto Care Connections | www.palmettocareconnections.org

Webinar Objectives

Participants will be able to

- Define COVID-19 related symptoms
- Identify COVID-19 vaccination options
- Describe the COVID-19 vaccination plan in South Carolina

Coronaviruses are a family

SARS-CoV-2: the virus

Coronavirus Disease 2019 (COVID-19): the disease

Spike protein: attaches to the cell and injects virus RNA





Know the symptoms of COVID-19, which can include the following:





Symptoms in various organs due to SARS-CoV-2

SARS-COV-2 related multisystem inflammation

















The key stages to develop a coronavirus vaccine

Basic research

Testing for safety & effectiveness

Clinical trials









European Animal Research Association



Phase 1: 1 - 100 volunteers

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Are there safety concerns? Does the vaccine cause an immune response?

Phase 2: 50 - 500 volunteers

More checks for safety and immune response. What is the best dose and schedule?

Phase 3: 300 - 30,000 volunteers

Final real-world checks for safety in a wide population. Can the vaccine prevent infection or severe infection in the community?

New vaccine technology





Common ingredients in mRNA vaccines



Vaccine update

Pfizer mRNA

- 95% effective after 2 doses, no serious safety concerns
- Mild-moderate symptoms after 2nd dose
- Needs to be kept -90°F
- First to workers in health care setting

Moderna mRNA

- 95% effective after 2 doses, no serious safety concerns
- Mild-moderate symptoms after 2nd dose
- First shipment 12/14/2020
 First shipment 12/28/2020
 - Can store at normal freezer temperatures
 - First to nursing homes

Weigh benefits and risks

Benefit: Vaccines are 95% effective Risk: after-shot symptoms, allergy, rare events

Common COVID-19 Vaccine Side Effects

These side effects of the COVID-19 vaccine may affect your ability to do daily activities, but they should go away in a few days.



- Can take Tylenol or ibuprofen (e.g., Motrin) if symptoms
- Do not pre-medicate; most symptoms are the next day









Morbidity and Mortality Weekly Report February 19, 2021

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First Month of COVID-19 Vaccine Safety Monitoring — United States, December 14, 2020–January 13, 2021

Early Release

TABLE 2. Percentage of v-safe enrollees who completed at least one survey (N = 1,602,065) with local and systemic reactions reported for day 0–7 and for day 1 after receiving Pfizer-BioNTech and Moderna COVID-19 vaccines — v-safe,* United States, December 14, 2020–January 13, 2021

7 <u>—</u>		Percentage of v-safe enro	ollees reporting reactions	
_	Both vaccines Pfizer-BioNTech vaccine		Moderna vaccine	
local and systemic reaction	Day 0-7	Dose 1, day 1	Dose 2, day 1	Dose 1, day 1
njection site pain	70.9	72.9	79.3	78.1
atigue	33.5	21.9	53.5	25.1
Headache	29.5	17.5	43.4	19.9
Myalgia	22.9	14.7	47.2	18.3
Chills	11.6	5.5	30.6	8.4
ever	11.4	5.8	29.2	8.2
njection site swelling	10.8	6.2	8.6	12.6
oint pain	10.4	5.3	23.5	7.3
Nausea	8.9	4.2	14.0	5.5

* Gee J, Marquez P, Su J, et al. First Month of COVID-19 Vaccine Safety Monitoring — United States, December 14, 2020–January 13, 2021. MMWR Morb Mortal Wkly Rep. ePub: 19 February 2021. DOI: http://dx.doi.org/10.15585/mmwr.mm7008e3





Morbidity and Mortality Weekly Report February 19, 2021

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Local and systemic reaction	Percentage of v-safe enrollees reporting reactions					
	Both vaccines	Pfizer-BioN	Moderna vaccine			
	Day 0-7	Dose 1, day 1	Dose 2, day 1	Dose 1, day 1		
Injection site pain	70.9	72.9	79.3	78.1		
Fatigue	33.5	21.9	53.5	25.1		
Headache	29.5	17.5	43.4	19.9		
Myalgia	22.9	14.7	47.2	18.3		
Chills	11.6	5.5	30.6	8.4		
Fever	11.4	5.8	29.2	8.2		
Injection site swelling	10.8	6.2	8.6	12.6		
Joint pain	10.4	5.3	23.5	7.3		
Nausea	8.9	4.2	14.0	5.5		

Abbreviation: COVID-19 = coronavirus disease 2019.

* https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/vsafe.html

* Gee J, Marquez P, Su J, et al. First Month of COVID-19 Vaccine Safety Monitoring — United States, December 14, 2020–January 13, 2021. MMWR Morb Mortal Wkly Rep. ePub: 19 February 2021. DOI: <u>http://dx.doi.org/10.15585/mmwr.mm7008e3</u> 7

Anaphylaxis following mRNA COVID-19 vaccines

Clinical Review & Education

JAMA Insights

Reports of Anaphylaxis After Receipt of mRNA COVID-19 Vaccines in the US–December 14, 2020-January 18, 2021

Tom T. Shimabukuro, MD, MPH, MBA; Matthew Cole, MPH; John R. Su, MD, PhD, MPH

Shimabukuro TT, Cole M, Su JR. Reports of Anaphylaxis After Receipt of mRNA COVID-19 Vaccines in the US-December 14, 2020-January 18, 2021. *JAMA*. 2021 Feb 12. doi: 10.1001/jama.2021.1967. Epub ahead of print.

	Pfizer-BioNTech	Moderna
Anaphylaxis reporting rate (cases per million doses administered)	4.7	2.5

Table. Characteristics of Reported Cases of Anaphylaxis Following Receipt of Pfizer-BioNTech (9 943 247 Doses) and Moderna (7 581 429 Doses) COVID-19 Vaccines—Vaccine Adverse Events Reporting System (VAERS), US, December 14, 2020-January 18, 2021

	No. (%) of cases				
Characteristics	Pfizer-BioNTech (n = 47)	Moderna (n = 19)			
Age, median (range), y	39 (27-63) ^a	41 (24-63)			
Female sex	44 (94)	19 (100)			
Minutes to symptom onset, median (range)	10 (<1-1140 [19 h]) ^b	10 (1-45)			
Symptom onset, min					
≤15	34 (76) ^b	16 (84)			
≤30	40 (89) ^b	17 (89)			
Reported history ^c					
Allergies or allergic reactions	36 (77)	16 (84)			
Prior anaphylaxis	16 (34)	5 (26)			
Vaccine dose					
First	37	17			
Second	4	1			
Unknown	6	1			
Brighton Collaboration case definition level ^d					
1	21 (45)	10 (52)			
2	23 (49)	8 (43)			
3	3 (6)	1 (5)			
Anaphylaxis reporting rate (cases per million doses administered)	4.7	2.5			

1.4/million doses with influenza vaccine

Rare events

>124 million doses given in the US as of 3/22/2021



VAERS is the nation's early warning system for vaccine safety



VAERS

Vaccine Adverse Event Reporting System

co-managed by CDC and FDA

http://vaers.hhs.gov



Vaccine Adverse Event Reporting System (VAERS)

Strengths

- National data
- Rapidly detects safety signals
- Can detect rare adverse events
- Data available to public

Limitations

- Reporting bias
- Inconsistent data quality and completeness of information
 - Lack of unvaccinated comparison group
- Not designed to assess causality
- VAERS accepts all reports from everyone regardless of the plausibility of the vaccine causing the event or the clinical seriousness of the event
- As a hypothesis-generating system, VAERS identifies potential vaccine safety concerns that can be studied in more robust data systems

U.S. reports to VAERS after COVID-19 vaccines through February 16, 2021*

Vaccine	N	Non-serious AEs (%)	Serious AEs ^{†§} (%)
Moderna	56,567	54,708 (97)	1,859 (3)
Pfizer-BioNTech	48,196	43,974 (91)	4,222 (9)
Total	104,763	98,682 (94)	6,081 (6)

* Total pre-processed reports (reports received and classified as serious or non-serious)

* Based on the Code of Federal Regulations if one of the following is reported: death, life-threatening illness, hospitalization or prolongation of hospitalization, permanent disability, congenital anomaly or birth defect

⁵ Most commonly reported serious adverse events include: death (456 reports of death following Moderna vaccine and 510 following Pfizer-BioNTech vaccine), dyspnoea, pyrexia, SARS-CoV-2 test negative, nausea, headache, dizziness, fatigue, asthenia, pain

VAERS Vaccine Safety Datalink (VSD)

Preliminary results of the VSD **unvaccinated concurrent comparator** analysis for COVID-19 vaccine safety after either dose of any mRNA vaccine as of February 13, 2021

VSD Rapid Cycle Analysis prespecified outcomes for COVID-19 vaccines	Concurrent comparator analysis	Risk interval	Events in vaccinated	Adjusted expected events in risk interval
Acute disseminated encephalomyelitis	Unvaccinated	1-21 days	0	0
Acute myocardial infarction	Unvaccinated	1-21 days	23	26.0
Acute respiratory distress syndrome	Unvaccinated	N/A	0	N/A
Anaphylaxis	Unvaccinated	0-1 days	20	N/A
Appendicitis	Unvaccinated	1-21 days	31	23.6
Bell's palsy	Unvaccinated	1-21 days	21	20.3
Convulsions/seizures	Unvaccinated	1-21 days	10	9.6
Disseminated intravascular coagulation	Unvaccinated	1-21 days	1	1.1
Encephalitis/myelitis/encephalomyelitis	Unvaccinated	1-21 days	1	.1
Guillain-Barré syndrome	Unvaccinated	1-21 days	1	.6
Thrombotic thrombocytopenic purpura	Unvaccinated	1-21 days	0	0
Immune thrombocytopenia	Unvaccinated	1-21 days	1	1
Kawasaki disease	Unvaccinated	1-21 days	0	0
MIS-C and MIS-A	Unvaccinated	N/A	0	N/A
Myocarditis/pericarditis	Unvaccinated	1-21 days	2	2.1
Narcolepsy and cataplexy	Unvaccinated	N/A	2	N/A
Stroke, hemorrhagic	Unvaccinated	1-21 days	8	10
Stroke, ischemic	Unvaccinated	1-21 days	41	38.8
Transverse myelitis	Unvaccinated	1-21 days	0	0
Venous thromboembolism	Unvaccinated	1-21 days	26	26.3
Pulmonary embolism (subset of VTE)	Unvaccinated	1-21 days	20	21.0

 No statistically significant increased risks detected for any prespecified outcomes



V-safe pregnancy registry

- V-safe participants who report pregnancy following COVID-19 vaccination are actively contacted to enroll in pregnancy registry^{*}
- Participants are contacted once per trimester, after delivery, and when the infant is 3 months old⁺
- Outcomes of interest include miscarriage and stillbirth, pregnancy complications, maternal intensive care unit admission, adverse birth outcomes, neonatal death, infant hospitalizations, and birth defects

^{*} Must be registered in **v-safe** and have been pregnant at the time of COVID-19 vaccine receipt or within 30 days of vaccination; enrollment may discontinue when sufficient enrollment numbers are achieved

⁺ Phone surveys are conducted along with maternal and infant medical record review



Summary of v-safe data as of February 16, 2021

	Pfizer- BioNTech	Moderna	Total	
People receiving 1 or more doses in the United States [*]	28,374,410	26,738,383	55,220,364	
Registrants completing at least 1 v-safe health check-in	1,776,960	2,121,022	3,897,982	
Pregnancies reported to v-safe [†]	16,039	14,455	30,494	

* COVID Data Tracker as of Feb 16, 2021 (107,571 doses with manufacturer not identified)

* Self-reported during a v-safe health check-in

V-safe pregnancy registry outcomes of interest in COVID-19 vaccinated pregnant women as of February 18, 2021^{*}

	Background	V-safe pregnancy
Outcomes	rates*	registry overall
Pregnancy outcome		
Miscarriage (<20 weeks)	26%	15% ⁺
Stillbirth (≥20 weeks)	0.6%	<1%
Pregnancy complications		
Gestational diabetes	7-14%	10%
Preeclampsia or gestational hypertension [§]	10-15%	15%
Eclampsia	0.27%	0%
Intrauterine growth restriction	3-7%	1%
Neonatal		
Preterm birth	10.1%	10%
Congenital anomalies [‡]	3%	4%
Small for gestational age [*]	3-7%	4%
Neonatal death	0.38%	0%

* Sources listed on slide 33; * 93% of these were pregnancy losses <13 weeks of age; [§] Preeclampsia or gestational hypertension diagnosed during pregnancy and/or during delivery; [‡] Congenital anomalies (overall) diagnosed after delivery only; ^ Birth weight below the 10th percentile for gestational age and sex using INTERGROWTH-21st Century growth standards

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Janssen (Johnson & Johnson) vaccine

- Adenovirus (weakened common cold virus) vector carrying the spike protein DNA
- DNA not as fragile as RNA
- Refrigerated, not frozen, stable for months
- SINGLE DOSE
- Same proven technology as used for other vaccines (e.g., Ebola, Zika)
- Majority only mild symptoms after vaccination





Janssen vaccine

- Efficacy in preventing moderate to severe disease, 28 days after single dose
 - 72% in the US
 - 66% Latin America,
 - 57% South Africa





But...72% vs. 95%, who would want Janssen?



1. You can't compare: Pfizer and Moderna studies were done in different places and before variants were circulating

2. Eyes on the prize: mortality

- 85% against severe disease 4 weeks after one dose
- Zero hospitalizations, zero deaths in vaccine arm including in South Africa

When can I get vaccinated?



55 OR OLDER? IT'S YOUR TURN. TIME TO GET YOUR COVID-19 VACCINE.



PHASE 1B

Appointments can be made by individuals in the following groups beginning March 8, 2021:

1. Individuals aged 55 and up

2. Individuals with Increased Risk for Severe COVID-19 Disease

- Persons aged 16-54 with one or more of the following high-risk medical conditions**
- Persons who have a developmental or other severe high-risk disability that makes developing severe life-threatening illness or death from COVID-19 infection more likely

**High-risk medical conditions: cancer (current, not a history of cancer), chronic kidney disease (any stage), chronic lung disease, diabetes (Type 1 and Type 2), Down syndrome, heart disease (congestive heart disease, coronary artery disease, cardiomyopathy, pulmonary hypertension), HIV/AIDS, solid organ transplant, obesity (BMI >30), pregnancy, sickle cell disease.

3. Frontline Workers with Increased Occupational Risk

Frontline workers with increased occupational risk are people who:

- o Must be in-person at their place of work, and
- Perform a job in which they are at increased risk of exposure due to their frequent, close (<6 feet) and ongoing (>15 minutes) contact with others in the work environment

Examples of frontline workers include, but are not limited to teachers and daycare workers, manufacturing workers, grocery store workers, law enforcement officers, etc.

PHASE 1B

- 4. Individuals at Increased Risk in Settings where People are Living and Working in Close Contact
 - Residents and workers in group home settings for the mentally or physically disabled or those with behavioral or substance abuse conditions
 - o Workers and residents in homeless shelters
 - o Workers and residents in community training homes (CTHs)
 - o State and local correctional facility staff with direct inmate contact
 - o Correctional and immigration detention facility inmates
 - o Migrant farmworkers living in shared housing or reliant on shared transportation
- 5. All workers in healthcare and community health settings who have routine, direct patient contact and were not vaccinated in Phase 1a

How does a person indicate eligibility?

- Self-attestation: age 55+, medical condition, or frontline worker
- No need to bring proof
- No ID, doctor note, letter from employer

What can I do after I am vaccinated?

- Fully vaccinated people (2 weeks after 2nd dose if Pfizer or Moderna, 2 weeks after single dose Janssen) can:
 - Get together with other fully vaccinated in private settings without mask and distancing
 - Get together with unvaccinated low risk people





https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html



What can I do after I am vaccinated?

- Do not get together with unvaccinated people at increased risk of severe disease
- Do not get together with unvaccinated low risk people *if they live with someone unvaccinated at high risk*
- It is possible for vaccinated person to get exposed, pick up virus, have no symptoms, and spread to others

Who is "low risk"?

- Under age 20 30, 40?
- No chronic medical conditions, including obesity (BMI = 30 or higher)
- BMI examples:
 - o 5'0" weight 153#
 - $\odot\,5'6''$ weight 186#
 - ${\rm \odot}\,6'0"$ weight 221#

https://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/english _bmi_calculator/bmi_calculator.html

What can I do after I am vaccinated?

- It is possible for vaccinated person to get exposed, pick up virus, have no symptoms, and spread to others
- Guidelines stay the same in public
 - Mask, distancing, outdoors better than indoors, wash hands
 - Quarantine requirements after employees are vaccinated but exposed via close contact
- Still need to mask at work if others unvaccinated



https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html

What is the point in getting the vaccine if I have to wear my mask, socially distance, etc. anyway?

- Wearing a mask etc. is not forever
- When can we stop? When is herd immunity?
 - It is not an on/off light: more like a dimmer switch
- Once most people are vaccinated, and the number of new cases goes low enough, we can unmask
- You CAN get together with others who are fully vaccinated or unvaccinated but low risk
- You DON'T need to quarantine if exposed to SARS CoV-2

Vaccine hesitancy

The vaccine demand continuum

INCREASING CONFIDENCE IN VACCINE, VACCINATOR, AND HEALTH SYSTEM



Willingness to accept the COVID-19 vaccine is increasing; however, we have more work to do

If a COVID-19 vaccine was determined to be safe by scientists and available for free to everyone who wanted it, would you...?



SOURCE: KFF COVID-19 Vaccine Monitor (KFF Health Tracking Poll, Nov. 30-Dec. 8, 2020); KFF/The Undefeated Survey on Race and Health (conducted Aug. 20-Sept. 14, 2020). See topline for full question wording.

KFF COVID-19 Vaccine Monitor



National Institutes of Health

Figure 1

Share Who Report Getting COVID-19 Vaccine Grows; Share Wanting To "Wait And See" Shrinks

Have you personally received at least one dose of the COVID-19 vaccine, or not? When an FDA authorized vaccine for COVID-19 is available to you for free, do you think you will...?

Already vaccinated	Get it as soon as you can	Wait and see how it's working
Get it only if required	Definitely not get it	

Feb 2021	18%	37%		22%		7%	15%
Jan 2021	6% 41%		31%			7%	13%
Dec 2020	34%		39%		9%	1	5%

NOTE: December 2020 survey did not have an option for respondents to indicate they had already been vaccinated. See topline for full question wording. SOURCE: KFF COVID-19 Vaccine Monitor (Feb. 15-Feb. 23, 2021)

https://www.kff.org/coronavirus-covid-19/poll-finding/vaccine-hesitancyamong-hispanic-adults/

Why "Wait and See"? February 2021

Majorities Of Black And Hispanic Adults Who Want To "Wait and See" Are Concerned About Side Effects, Getting COVID-19 From Vaccine, Missing Work, And Not Being Able To Get Vaccine From A Trusted Place

Percent who say they are very or somewhat concerned about each of the following when it comes to the COVID-19 vaccine:

Might experience serious side effects

Might get COVID-19 from the vaccine

Might miss work if side effects make them feel sick

Might have to pay out-of-pocket to get the vaccine Won't be able to get the vaccine from a place they trust

It will be difficult to travel to a vaccination site

Might need to take time off work to get the vaccine



NOTE: Based on those who say they want to "wait and see" before getting a COVID-19 vaccine. See topline for full question wording. SOURCE: KFF COVID-19 Vaccine Monitor (Feb. 15-Feb. 23, 2021) • Download PNG KFF COVID-19 Vaccine Monitor Vaccine hesitancy

What are they waiting to see?

- Factual vaccine hesitancy:
 - How could vaccine developed so quickly be safe?
 - What is in the vaccine?
 - Cost of vaccine?
- Lack of information
- Lack of access
- Limited transportation
- Rumors:
 - Fertility
 - Change your DNA (if we could do that, we could cure sickle cell disease)
- Social norms:
 - Do you know anyone who has been vaccinated?

Social norms

Figure 11

Those With Closer Connections To People Who Have Been Vaccinated Are More Likely To Say They'll Get Vaccinated As Soon As Possible

When an FDA approved vaccine for COVID-19 is available to you for free, do you think you will...?

Get it as soon as possible	wait and see Only get it in	required De	elinitely not get it			
Someone in household vaccinated	69%			13%	10%	8%
Close friend or family vaccinated	49%		23%	6%	20%	
Know someone else vaccinated	33%	31%	14%	, D	22%	
Don't know anyone vaccinated	36%	37%		9%	17%	

i ha mad it if se su dine di 🗖 Definite ha met set it

NOTE: Among those who have not been vaccinated for COVID-19. See topline for full question wording. SOURCE: KFF COVID-19 Vaccine Monitor (Feb. 15-Feb. 23, 2021) • Download PNG KFF COVID-19 Vaccine Monitor

Vaccine hesitancy

Fear:

- Mistrust of government
- Big Pharma
- Medical mistrust
- Historical and present-day mistreatment
- Deportation
- The Unknown
- Active vs. passive decisionmaking
- Who can you trust?

I'm young – I don't need vaccine

Recovery from COVID-19 can take a long time, even in young adults with no chronic conditions



1 in 5 previously healthy young adults* weren't back to usual health 14-21 days after testing positive

*ages 18-34

Random sample of adult outpatients with COVID-19 from 14 U.S. academic health care systems

CDC.GOV

bit.ly/MMWR72420

To stay well and protect others...



Stay 6 feet away from others not living in your household



Wash hands often



Wear face coverings consistently and correctly in public



A study found that more than **30% of 177 participants** had **COVID-19 symptoms** that persisted for as long as **9 months**. These long-term effects have been given a new acronym.





I had COVID already – I don't need vaccine

...



This is both anecdotal and early, but many long covid survivors are feeling significantly better after receiving their first vaccine dose. Including me. Fascinating.

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11:14 AM · Feb 24, 2021 · Twitter for iPhone
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5,957 Retweets 949 Quote Tweets 63.2K Likes

- Small study compared vaccinated (44) and 22 matched unvaccinated long-COVID patients
- Small overall improvement in symptoms, with a decrease in worsening symptoms (5.6% vaccinated vs 14.2% unvaccinated) and increase in symptom resolution (23.2% vaccinated vs 15.4% unvaccinated) (p=0.035)

https://doi.org/10.1101/2021.03.11.21253225



	Below Poverty
Socioeconomic	Unemployed
Status	Income
	No High School Diploma
	Aged 65 or Older
Household Composition & Disability	Aged 17 or Younger
	Civilian with a Disability
	Single-Parent Households
Minority Status & Language	Minority
	Speak English "Less than Well"
	Multi-Unit Structures
Housing &	Mobile Homes
Transportation	Crowding
mansportation	No Vehicle
	Group Quarters



Equality

Equity



South Carolina Social Vulnerability Index (SVI) versus COVID-19 Case and Mortality Rates by ZIP Codes



County-Level COVID-19 Vaccination Coverage and Social Vulnerability

- First 2.5 months of SARS-CoV-2 vaccination
- Divided counties into low, medium, and high SVI tertiles
- Nationally, for the overall SVI measure, vaccination coverage was higher (15.8%) in low SVI vs high SVI counties (13.9%)
- Largest coverage disparity in the socioeconomic status theme (2.5%age points higher coverage in low vs. high SVI counties)
- Additional efforts to achieve equity needed
- Data broken down by states

https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e1.htm?s_cid=mm7012e1_w

Montana-				
Alaska-				
Arizona –				
West Virginia				
Nebraska –				
Minnesota –				
Texas-				
Ohio-				
Alabama –				
North Carolina-				
Oklahoma-				
South Carolina				
Massachusetts-				
Maine-				
Utah-				
Washington				
Connecticut				
South Dakota				
Oregon				
Wyoming				
Topporco				
Coordia				
Kontucky				
Donneylyania				
Pennsylvania				
Virginia				
virginia-				
Mississipi				
Indiana				
Missouri				
Nevada-				
North Dakota				
Wisconsin-				
Michigan-				
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lowa-				
Louisiana-				
New Mexico-				
New Jersey-				
Vermont-				
Arkansas –				
New York-				
Florida –				
Rhode Island-				
California-				
Kansas-				
Maryland –				
ldaho-				
New Hampshire				
ł	1			
09	6 20%	40% 60%	80% 100%	
	Normalized distribution of vaccination coverage			



- Overall, coverage was higher in low SVI vs high SVI counties
- Practices in states with high equity included
 - prioritizing persons in racial/ethnic minority groups during the early stages of the vaccine program implementation
 - actively monitoring and addressing barriers
 - directing vaccines to vulnerable communities
 - offering free transportation to vaccination sites
 - collaborating with community partners, tribal health organizations, and the Indian Health Service (e.g., MT, AK, AZ)



7 hrs · 🚱

Fetter Health Care Network

Our #covid19 vaccine clinics have given us the opportunity to meet and serve so many incredible friends and neighbors in our surrounding community! Today in North Charleston, we had the honor of vaccinating our oldest patient yet at 101 years old. Our first-come, first-serve clinics were created to serve our community members who otherwise, may have had a difficult time getting access to the vaccine. We are thankful today and every day for the privilege of caring for the Lowcountry!



Saluda Health Department mass vaccination event 870 farm workers, mostly migrant



COVID-19 is still at high levels. Act nov COVID-19 is still at high levels. Act nov Find a COVID-19 Vaccination Location Want to Offer a Vaccination Location? COVID-19 cases hospitalizations and deat	N. On Find a Testing Location COVID-19 Vaccine See the Latest Data Vaccine FAQs ths are still at high levels. Take steps to slow the spread of COVID-19.	
Want to Offer a Vaccination Location? Provide some information and submit this form. Someone from DHEC will contact you 2-3 days after we review your information. If you don't hear from us by then, please email <u>acc-log@dhec.sc.gov</u> . Thank you for your willingness to help us Stay SC Strong!	4. Contact person's phone number: * Enter your answer 5. Contact person's amail: *	
* Required	Enter your answer	
1. Name of community group or organization: * Enter your answer	6. Site Environment *	
2. Address where clinic can be held: * Enter your answer	 Outdoor Mobile (van, bus) Door-to-door Other 	
3. Name of contact person for clinic: * Enter your answer	Submit	
	Never give out your password. Report abuse	

https://scdhec.gov/covid19/covid-19-vaccine

AstraZeneca (ChAdOx1 nCOVID-19)

- Replication-incompetent chimpanzee adenovirus vector vaccine, spike protein dsDNA, 2 doses 4 weeks apart
- Press release: US Phase III trial (32,449 participants) 79% efficacy preventing symptomatic COVID-19 (based on data as of February 2021)
- 100% efficacy at preventing severe disease and hospitalization
- Independent data safety monitoring board (DSMB): no serious safety concerns
- Specific assessment for cerebral venous thrombosis by an independent neurologist
- Vaccine efficacy was consistent across race/ethnicity and age



Nanoparticle

Novavax

- No genetic material
- 2 doses
- Refrigerate, not frozen
- Phase 1/2/3 studies >20K participants
- Nanoparticle encapsulates pre-fusion spike protein (antigen = "antibody-generating") plus adjuvant
- Majority symptoms mild
- 89.3% efficacy in UK trials
- 60% South Africa Phase 2b (95% CI: 19.9 80.1)
- Novavax working on vaccine targeting new variant



New virus variants that spread more easily could lead to a rapid rise in COVID-19 cases

NOW, more than ever, it is important to slow the spread



MMWR



Questions?

kellyjm1@dhec.sc.gov scdhec.gov/covid19 cdc.gov/covid19