

How the CDC Supports People with Down Syndrome & An Update on COVID-19 Vaccinations

Welcome Remarks from

Michelle Sie Whitten President & CEO, GLOBAL

Thursday, July 29, 2021 • 12:00pm - 1:00pm MT

Today's Speaker - Dr. Karen Remley



- Karen Remley, MD, MBA, MPH, FAAP, Director of the Centers for Disease Control and Prevention's National Center on Birth Defects and Developmental Disabilities
- Dr. Remley has more than 30 years of experience in public health and health care. Her "north star" has always been children and families, and she has shaped her career around helping every family have the best opportunity for health and well-being.





How the CDC Supports People with Down Syndrome & An Update on COVID-19 Vaccinations

Welcome Remarks from

Yadira Carrillo Fierce GLOBAL Advocate

Thursday, July 29, 2021 • 12:00pm - 1:00pm MT

Welcome!

- Welcome to GLOBAL's Summer Webinar! Thank you, Michelle and GLOBAL for bringing us this wonderful Webinar Series.
- My name is Yadira Carrillo. I'm from Colorado, and I love working with GLOBAL. I spoke at their AcceptAbility Gala, cohosted GLOBAL's Morning Social, and modeled in the famous Be Beautiful Be Yourself Fashion Show. I'm so happy to be working with GLOBAL again for this webinar with the CDC!
- This webinar is very important to me personally, because in November 2020, I contracted Covid-19 and was hospitalized with pneumonia for a week. It was scary for me and my family, but I recovered and am now healthy and vaccinated.
- I am thankful to the CDC for prioritizing people with Down syndrome for the COVID-19 vaccine and to GLOBAL for creating the COVID-19 & Down syndrome Resource so that people with Down syndrome could be as safe as possible during the pandemic.







Introducing Today's Speaker

- Thanks to research and medical care supported by GLOBAL, I can continue living a full life to my motto, "Down with Style and Uniqueness!"
- And thanks to the CDC's COVID-19 efforts and work to improve the health of people with Down syndrome, other people with Down syndrome are getting vaccinated and living healthier lives, too!
- Today's webinar on How the CDC Supports People with Down Syndrome & An Update on COVID-19 Vaccinations will help show us how much progress is being made and what's next for Down syndrome research and advocacy!
- And now I am pleased to introduce today's speaker, Dr. Remley!







National Center on Birth Defects and Developmental Disabilities





CDC Efforts to Promote the Health of People with Down Syndrome

July 29, 2021

Karen Remley, MD, MBA, MPH, FAAP Director National Center on Birth Defects and Developm

National Center on Birth Defects and Developmental Disabilities Centers for Disease Control and Prevention

Why I am here ...













The Children's Health Act of 2000 established the

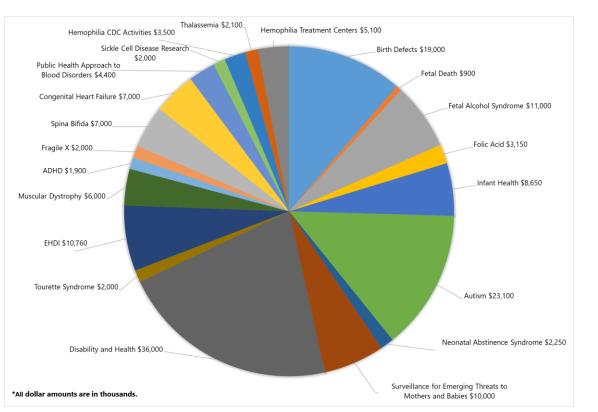
CDC's National Center on Birth Defects and Developmental Disabilities (NCBDDD).



NCBDDD FY2021 Budget



NCBDDD FY 2021 Appropriations	
(in thousands)	
Birth Defects	\$19,000
Fetal Death	\$900
Fetal Alcohol Syndrome	\$11,000
Folic Acid	\$3,150
Infant Health	\$8,650
Autism	\$23,100
Neonatal Abstinence Syndrome	\$2,250
Surveillance for Emerging Threats to Mothers and Babies	\$10,000
Disability and Health	\$36,000
Tourette Syndrome	\$2,000
EHDI	\$10,760
Muscular Dystrophy	\$6,000
ADHD	\$1,900
Fragile X	\$2,000
Spina Bifida	\$7,000
Congenital Heart Failure	\$7,000
Public Health Approach to Blood Disorders	\$4,400
Sickle Cell Disease Research	\$2,000
Hemophilia CDC Activities	\$3,500
Thalassemia	\$2,100
Hemophilia Treatment Centers	\$5,100
NCBDDD Total	\$167,810



NCBDDD's Thematic Areas









AND PREVENTING COMPLICATIONS OF BLOOD DISORDERS



Stigma – Hidden and Seen Disability







Mental health of children and parents —a strong connection



Bullying



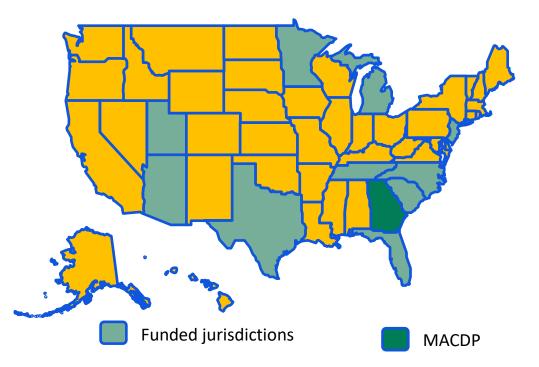
Some disabilities may be hidden or not easy to see.

CDC State-Based Birth Defects Tracking



CDC collects data on Down syndrome, as well as additional cooccurring major birth defects

Data improve planning for needed services and supports



Congenital Heart Defect: Areas of Focus





Prevalence

Estimate the number of babies born with and people living with heart defects



Physical Health

Understand the physical health and long-term survival of people with heart defects



Risk Factors

Identify environmental and genetic factors that may cause heart defects



Reproductive Health

Understand the reproductive health of women with heart defects



Screening

Study the impact of newborn screening for critical congenital heart defects, as well as ways to improve screening



Quality of Life

Characterize the quality of life of people living with heart defects, including social, educational, and behavioral aspects



Healthcare Access & Use

Characterize healthcare access and use among people living with heart defects



Awareness

Disseminate information about heart defects as a lifelong condition



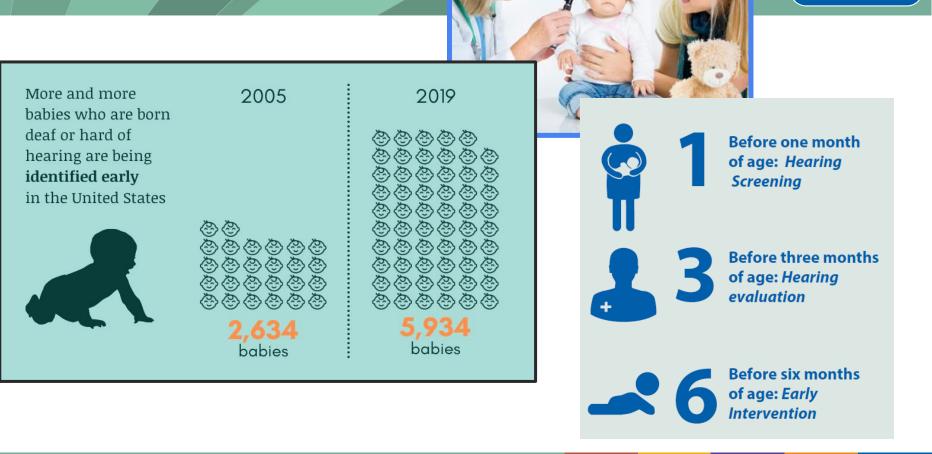
Birth Defects Among Infants With Down Syndrome



CDC researchers and partners are looking at survival of people with Down syndrome who do or do not have critical congenital heart defects

- Among 13,376 children with Down syndrome, 75% had at least one reported co-occurring birth defect diagnosis code
- Among 6,210 of these children identified by active tracking programs, 66% had a heart defect
- Up-to-date population-based data on birth defects among children with Down syndrome can aid clinical evaluation and monitoring

Infant Hearing loss

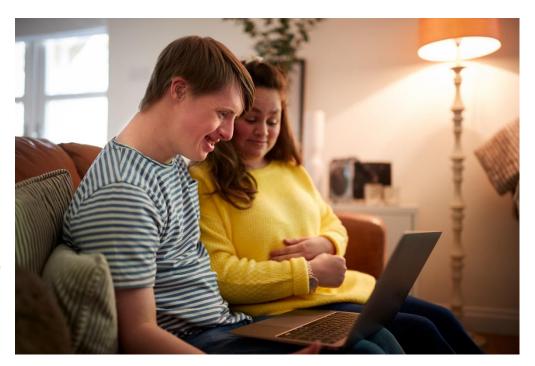


Disability and Health



One in four American adults has a disability.*

*2016 Behavioral Risk Factor Surveillance System (BRFSS)



Special Olympics International: Creating a Tipping Point towards Inclusive Health for People with Intellectual Disabilities





Prevent Flu and Get a

Flu Vaccine: What

You Need to Know

IN THE NEWS

Learn more.



Infographic: What

You Should Know

About the Flu 😰

The Flu: A Guide for Parents 💋



Social Media Graphics

Access graphics you can use for Facebook, Instagram and Twitter.



IN THE NEWS

Caring for People With Intellectual Disabilities During COVID-19: 4 Tips for Healthcare Professionals





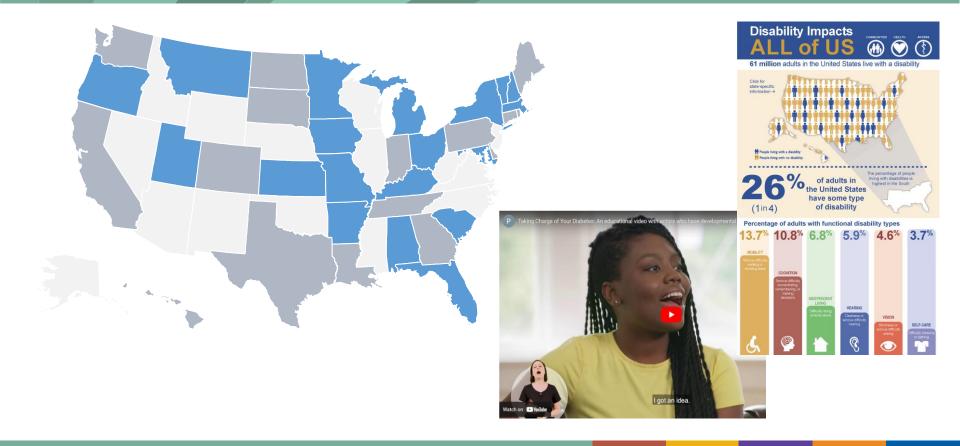


FITNESS MOVIES

Video 1: Welcome and Warm Up 🛛

Want to get right to the exercises? Start at 1:56.

Disability and Health State Programs



COVID-19: Major Implications for NCBDDD populations



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Carles - Constant

CLD_GSU @CLD_GSU · Jul 26

Hear from Evan & his DSP, Andrew, about why they got the COVID-19 vaccine.

CLD is working with @AUCDNews to ensure all eligible people with disabilities have access to the COVID-19 vaccine by the #ADA anniversary today. youtube.com/watch?v=giBAyQ... #VaccinateByADA #AUCDSleeveUP



Erin Vinoski Thomas, PhD, MPH (she/her) and 6 others



People with Certain Medical Conditions Updated May 13, 2021 Languages 🔻 Print Vaccine Information for People with Certain Medical Conditions. This information is intended for a general audience. Healthcare providers should see Underlying Medical Conditions Associated with High Risk for Severe COVID-19 for more detailed information. Down syndrome Having Down syndrome **can make you more likely** to get severely ill from COVID-19. Get more information: • Down syndrome | CDC

Centers for Disease Control and Prevention CDC 24/7: Soving Lives. Protecting People™			S	Search COVID-19		Q	
VID-19							
Your Health	Vaccines	Cases & Data	Work & School	Healthcare Workers	Health Depts	Science	More
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School	ing +	Fully Vaccinate	d People.	people who are fully vac			
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Community, Work, & School accination lealth Equity – Promot air Access to Health iommunity Mitigation ramework	ing +	Guidan	ce for Gro sabilities				

White House Virtual Forum: Breaking Down Barriers for People Who Have Challenges Accessing COVID-19 Vaccination (April 21, 2021)

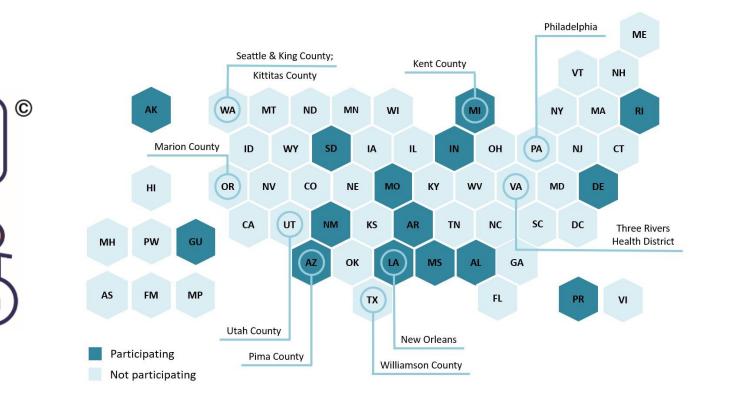




Addressing Needs of People with Disabilities in COVID-19 Local Preparedness Planning, Mitigation and Recovery

DRFPARED



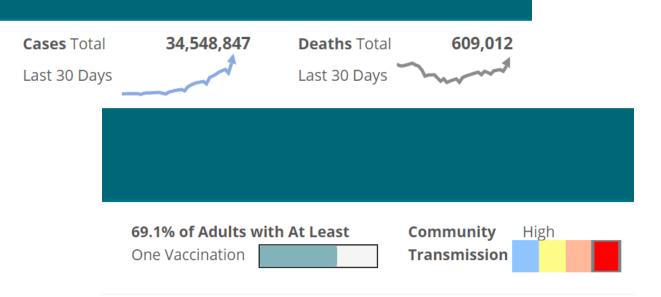


CDC COVID Data Tracker July 27, 2021



COVID Data Tracker

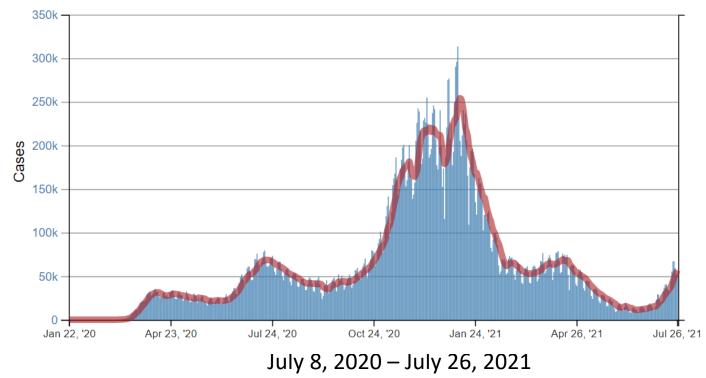




COVID-19 Daily Case Trend - US



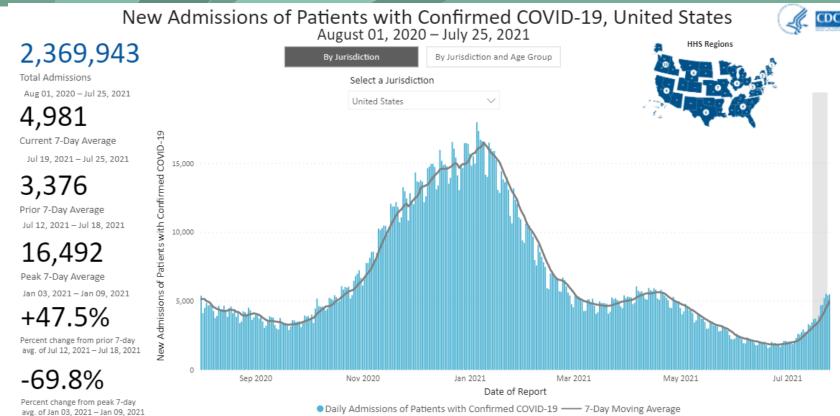
Daily Trends in Number of COVID-19 Cases in the United States Reported to CDC



https://covid.cdc.gov/covid-data-tracker/#trends_dailytrendscases

COVID-19 Hospitalizations

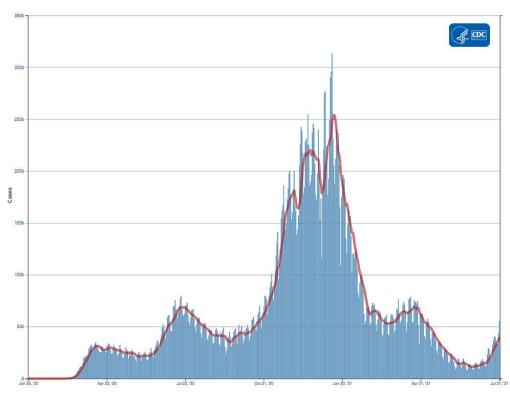




https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions

COVID-19 Deaths January 21, 2020 – July 28, 2021

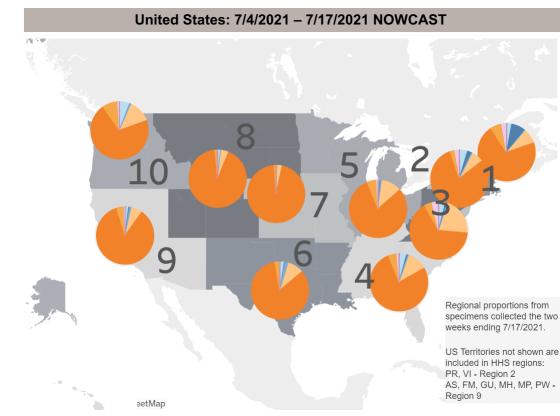
Daily Trends in COVID-19 Cases in the United States Reported to CDC





Emerging Variant Virus Cases in the United States As of July 28, 2021





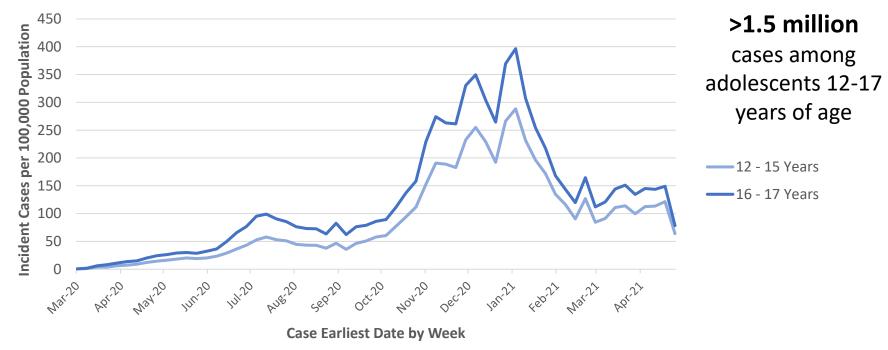
Lineage		Туре	
B.1.617.2	Delta	voc	
B.1.1.7	Alpha	voc	
P.1	Gamma	voc	
B.1.621			
B.1.526	lota	VOI	
B.1.351	Beta	voc	
B.1.427	Epsilon	VOI	
B.1.525	Eta	VOI	
B.1.617.3		VOI	
B.1.429	Epsilon	VOI	
Other			

* Other represents lineages eacher the last 12

https://covid.cdc.gov/covid-data-tracker/#variant-proportions

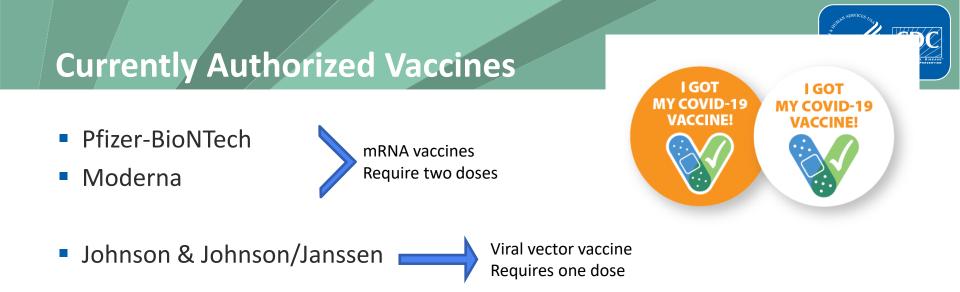
COVID-19 Incidence among Adolescents

March 1, 2020 – April 30, 2021









- All three vaccines were tested in tens of thousands of adults from diverse backgrounds, including older adults and communities of color.
- All three vaccines have been proven effective at preventing serious illness, hospitalization, and death from COVID-19 disease.
- It is unknown how long protection from vaccines might last.

How mRNA COVID-19 Vaccines Work





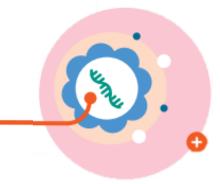
What is mRNA?

Messenger RNA, or mRNA, is genetic material that tells your body how to make proteins.



What is in the vaccine?

The vaccine is made of mRNA wrapped in a coating that makes delivery easy and keeps the body from damaging it.



How does the vaccine work?

The mBNA in the vaccine teaches your cells how to make copies of the spike protein. If you are exposed to the real virus later, your body will recognize it and know how to fight it off.



Sources: College of Physicians of Philadelphia. What is an mRNA vaccine? https://historyofvaccines.blog/2020/07/29/what-is-an-mrna-vaccine/; JAMA. COVID-19 and mRNA vaccines—First Large Test for a New Approach. https://jamanetwork.com/journals/jama/fullarticle/2770485; https://www.cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines/mrna.html



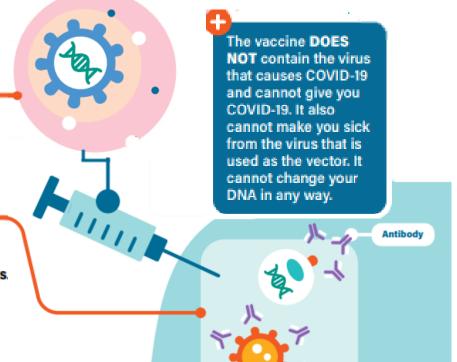
How Viral Vector COVID-19 Vaccines Work

What is a viral vector vaccine?

A viral vector vaccine uses a harmless version of a different virus, called a "vector," to deliver information to the body that helps it protect you.

How does the vaccine work?

The vaccine teaches your body how to make copies of the **spike proteins**. If you are exposed to the real virus later, your body will recognize it and know how to fight it off.



COVID-19 Vaccine Effectiveness

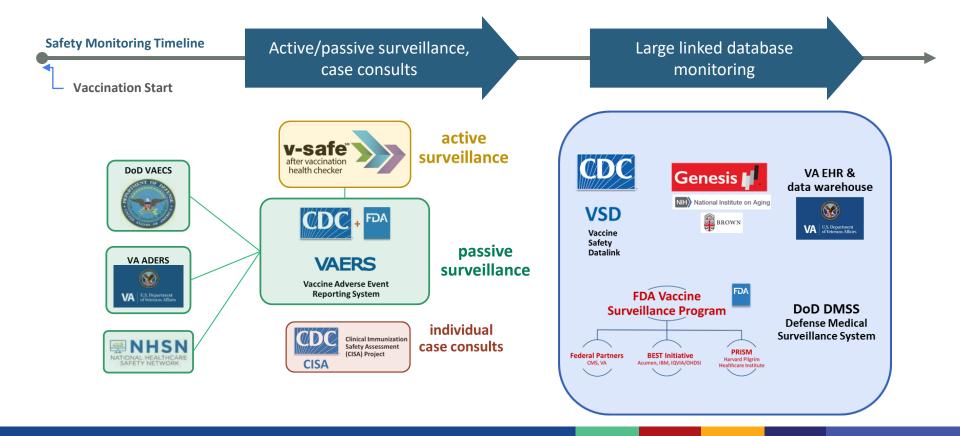
- All three vaccines authorized for use in US are effective at preventing COVID-19.
- Pfizer-BioNTech and Moderna vaccines had >94% vaccine effectiveness (VE) in phase 3 clinical trials.
 - 100% VE against severe disease
 - No deaths occurred in the vaccinated group.
- Johnson & Johnson's Janssen vaccine had 72% VE in U.S. clinical trial sites and 66% worldwide.
 - 85% VE against severe disease
 - No deaths occurred in the vaccinated group.





Vaccine Safety Monitoring





Possible Side-Effects After Getting a COVID-19 Vaccine



Common side effects:

Throughout the rest of your body: On the arm where you got the shot: Pain Tiredness Headache Redness Swelling Muscle pain Chills Fever Nausea You may consider: To reduce pain and discomfort where To reduce discomfort from fever you got the shot Drink plenty of fluids. • Apply a clean, cool, wet Dress lightly. washcloth over the area. Use or exercise your arm.

It is not recommended you take over-the-counter medicine such as ibuprofen, aspirin, or acetaminophen before vaccination for the purpose of trying to prevent vaccine-related side-effects.

Persons with underlying medical conditions



- Vaccine may be administered to persons with underlying medical conditions who have no contraindications to vaccination
- Clinical trials demonstrate similar safety and efficacy profiles in persons with underlying medical conditions, including those that place them at increased risk for severe COVID-19, compared to persons without comorbidities

Total Vaccine DosesDelivered395,974,515Administered343,361,524

Learn more about the distribution of vaccines.

163.6M People fully

vaccinated

People Vaccinated	At Least One Dose	Fully Vaccinated
Total	189,494,180	163,588,042
% of Total Population	57.1%	49.3%
Population ≥ 12 Years of Age	189,271,132	163,458,560
% of Population ≥ 12 Years of Age	66.8%	57.6%
Population ≥ 18 Years of Age	178,887,734	155,409,480
% of Population ≥ 18 Years of Age	69.3%	60.2%
Population ≥ 65 Years of Age	49,008,552	43,678,577
% of Population ≥ 65 Years of Age	89.6%	79.9%



CDC | Data as of: July 28, 2021 6:00am ET. Posted: Wednesday, July 28, 2021 2:40 PM ET

Prepublication Release



Important Considerations for COVID-19 Vaccination of Children With Developmental Disabilities

Sarah C Tinker, PhD, MPH, Mary E Cogswell, RN, DrPH, Georgina Peacock, MD, MPH, A Blythe Ryerson, PhD, MPH

DOI: 10.1542/peds.2021-053190

Journal: Pediatrics

Article Type: Pediatrics Perspectives

Citation: Tinker SC, Cogswell ME, Peacock G, Ryerson AB. Important Considerations for COVID-19 Vaccination of Children With Developmental Disabilities. *Podiatrics*. 2021; doi: 10.1542/peds.2021-053190



1) Children with developmental disabilities (DDs) may be at higher risk from COVID-19 illness because of increased prevalence of underlying health conditions, suboptimal vaccination rates, and systemic inequities. Strategies can be implemented and supported by pediatricians to ensure that children with DDs, their caregivers, family members, and service providers receive the COVID-19 vaccine to reduce negative outcomes.

3) Highlighting the unique considerations for COVID-19 vaccination for children with DDs can support equitable access of vaccination for children with DDs and their families



SHOULD I BE CONCERNED ABOUT THE DELTA VARIANT?

New data show Delta is different than past versions of the virus: it is much more contagious.

• Vaccinated people can get breakthrough infections of Delta variant and may be contagious.

•Vaccinated individuals represent a very small amount of total transmission.





S325818-A 07/27/2021

DO I NEED TO WEAR A MASK?

In areas of substantial or high transmission, everyone should wear a mask in public indoor settings to help prevent the spread of Delta variant and protect others.

cdc.gov/coronavirus

S325818-A 07/27/2021



ARE VACCINES EFFECTIVE?

Yes! Getting vaccinated prevents severe illness, hospitalization, and death; it also helps reduce the spread of the virus in communities.

With the Delta variant, vaccination is more urgent than ever.

Protected from	Vaccinated	Unvaccinated
Severe Symptoms	\checkmark	×
Hospitalization	\checkmark	×
Death	\checkmark	×



cdc.gov/coronavirus

25818-A 07/27/2021

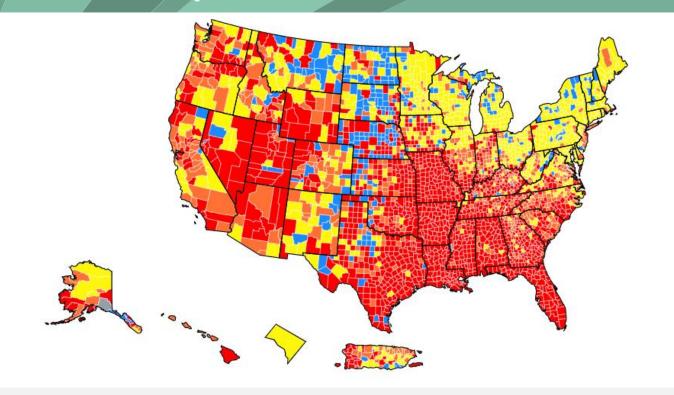
WHAT SHOULD SCHOOLS DO?

CDC recommends universal indoor masking for all teachers, staff, students, and visitors to K-12 schools, regardless of vaccination status. Children should return to full-time in-person learning in the fall with layered prevention strategies in place.





COVID-19 Hot Spots: Jul 19 2021 - Jul 25 2021





Looking Ahead

COVID-19 vaccine implementation efforts are focused on:











Continued surveillance of variant viruses

To prepare and adapt with a vaccine response

Continued vaccine effectiveness studies

To understand how the vaccines are working

Expanding vaccine-eligible populations

To vaccinate groups like children and adolescents

Combating vaccine hesitancy

And offering vaccines to groups that declined initially Continuing focus on vaccine equity

To include disproportionately affected communities

Future Directions



Health Equity in Action

Updated May 28, 2021 Languages • Print



To help the United States succeed against COVID-19, CDC is working with state, territorial, local, and tribal partners, and community-serving organizations, to ensure all public health actions address health disparities for all populations.

Populations of Focus

- Racial and ethnic minority populations
- · People living in rural or frontier areas
- · People experiencing homelessness



People who are justice-involved



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Disability and Health Promotion

Disability & Health Home > Articles & Key Findings

Disability & Health Home
Disability & Health Overview
Disability & Health Overview
Disability Inclusion

 Disability & Health Healthy Living

 Disability & Health Emergency

 Preparedness

Data & Statistics

Physical Activity for People with Disability

Primary Care Providers' Level of Preparedness for Recommending Physical Activity to Adults with Disabilities

Are Primary Care Providers Recommending Physical Activity to Patients with Disabilities?

The Centers for Disease Control and Prevention's (CDC's) Preventing Chronic Disease journal published a new study that looked at how prepared primary care providers (PCPs) feel to recommend physical activity to adults with disabilities. CDC scientists found that PCPs, specifically family doctors, internists, and nurse practitioners, are more likely to recommend physical activity to their patients with disabilities on a regular basis if they feel prepared to do so. However, just over 1 in 3 PCPs strongly agreed that they felt prepared to discuss physical activity with their adult patients with disabilities. Currently, half of PCPs recommend physical activity to their patients with disabilities at most visits.



Additional Resources for Healthcare Providers

NIH Treatment Guidelines:

https://www.covid19treatmentguidelines.nih.gov/therapeuticmanagement/

- CDC Clinical Care Guidelines: <u>https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-care.html</u>
- CDC's COVID-19 Data Tracker: <u>https://covid.cdc.gov/covid-data-tracker/?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fcases-updates%2Fcases-in-us.html#cases_casesper100klast7days</u>
- CDC's COVID-19 Vaccination Guidelines:

https://www.cdc.gov/vaccines/covid-19/index.html

CDC Webpages on Underlying Conditions

- CDC webpages on underlying conditions
 - For the general public:

https://www.cdc.gov/coronavirus/2019-ncov/needextra-precautions/people-with-medical-conditions.html

- For clinicians:
 - <u>https://www.cdc.gov/coronavirus/2019-</u>
 <u>ncov/hcp/clinical- care/underlvingconditions.html</u>
 - <u>https://www.cdc.gov/coronavirus/2019-</u> <u>ncov/hcp/clinical- care/underlving-evidence-</u> <u>table.html</u>





MAKING A DIFFERENCE ACROSS THE LIFESPAN National Center on Birth Defects and Developmental Disabilities

Thank you for attending!

- Additional Resources:
- GLOBAL Medical Guidelines for Adults with Down Syndrome
- > COVID-19 & Down Syndrome Resource
- GLOBAL COVID-19 & Down Syndrome Vaccine Tracker by State

