ADA National Network Webinar Series:
Disparities in COVID-19 vaccination status and access for people with disabilities

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Overview

- Background on COVID-19 and people with disabilities
- Disability disparities in COVID-19 vaccine status and access
  - National Immunization Survey
  - Household Plus Survey
- Implications
- Conclusion
Background
Disability

- CDC estimates the prevalence of functional limitations (disability) vary from between 1 in 4 to 1 in 10 adults.
- Adults with disabilities report mental distress almost 5 times as often as adults without disabilities.
- Adults with disabilities are more likely to have some health conditions that may put them at higher risk of severe illness from COVID-19.

https://www.cdc.gov/ncbddd/disabilityandhealth/dhds/
https://wwwn.cdc.gov/NHISDataQueryTool/ER_Quarterly/index_quarterly.html
COVID-19 and People with Disabilities

Social inequities and other characteristics increase risk of COVID-19 and severe outcomes for some people with disabilities:

- Chronic health conditions
- Living in congregate settings
- Increased barriers to health care
- Limited mobility
- Require direct support or care
- Trouble understanding or practicing preventive measures
- Challenges with communicating symptoms of illness

COVID-19 Mortality and People with Disabilities


Risk of inpatient mortality among pre-covid established patients

Odds Ratio

Age 80 and Over vs Age 20–39
Age 60–79 vs Age 20–39
Age 40–59 vs Age 20–39
Intellectual disability
Hispanic vs NH White
Black vs NH White
Asian vs NH White
Male vs Female
Chronic Kidney Disease
Diabetes
Hypertension
Deficiency Anemia
Lung Disease
Congestive Heart Failure
Obesity
Neurological Disorders
Low SES (by payer)
Pulmonary Circulatory Disease
Liver Disease
Oncology

5.9
1.2
Measuring Disability – Conceptual Framework

- Birth defects
- Developmental disabilities
- Acquired disabilities

Underlying medical conditions

May affect various activities or domains

- Vision
- Social relationships
- Hearing
- Thinking
- Remembering
- Mental health
- Movement
- Communicating
- Learning
Measuring Disability – HHS Standard

- HHS Implementation Guidance on Data Collection Standards for Race, Ethnicity, Sex, Primary Language, and **Disability Status**:
  - Are you blind or do you have serious difficulty **seeing**, even when wearing glasses?
  - Are you deaf or do you have serious difficulty **hearing**?
    - 5 years old or older:
      - Because of a physical, mental, or emotional condition, do you have serious difficulty **concentrating, remembering, or making decisions**?
      - Do you have serious difficulty **walking or climbing stairs**?
      - Do you have difficulty **dressing or bathing**?
    - 15 years old or older:
      - Because of a **physical, mental, or emotional condition**, do you have difficulty doing errands alone such as visiting a doctor’s office or shopping?

Disability Disparities in COVID-19 Vaccine Status & Access

National Immunization Survey
Recent Publication

Adult COVID Module (ACM)

- National Immunization Survey is a group of surveys used to monitor vaccination coverage
- An Adult COVID Module was added in April 2021 in response to the COVID-19 pandemic
- Telephone interviews of adults ≥18 years of age
  - Random-digit-dialed sample of cell phones stratified by locality
  - Limited to non-institutionalized adults

https://www.cdc.gov/vaccines/imz-managers/nis/about.html
ACM Measure of Disability

- Do you have serious difficulty seeing, hearing, walking, remembering, making decisions, or communicating?
  - Yes
  - No
  - Don’t Know
  - Refused

MMWR Methods

- Responses weighted to represent the non-institutional U.S. population
  - Calibrated to state-level vaccine administration data
- Unadjusted and age-adjusted analyses conducted to detect differences between adults with and without a disability
  - Percentages (t-tests)
  - Prevalence ratios (logistic regression and predictive marginals)

9.4% of respondents reported having a disability

Adults with a disability were less likely to report receiving ≥1 dose of a COVID-19 vaccine (aPR=0.88, 95% CI:0.84–0.93)

Adults with a disability were more likely to report they would get vaccinated (aPR=1.86, 95% CI: 1.43–2.42)
Age-adjusted prevalence ratios of COVID-19 vaccine attitudes, perceptions, and recommendations among adults aged ≥18 years with a disability compared with adults without a disability, by COVID-19 vaccination status — National Immunization Survey Adult COVID Module, United States, May 30–June 26, 2021
Age-adjusted prevalence ratios of experiences and difficulties with getting COVID-19 vaccine among adults aged ≥18 years with a disability compared with adults without a disability, by COVID-19 vaccination status — National Immunization Survey Adult COVID Module, United States, May 30–June 26, 2021

- Would be/was somewhat or very difficult to get the COVID-19 vaccine
- Getting an appointment online
- Not knowing where to get vaccinated
- Getting to vaccination sites
- Vaccination sites not being open at convenient times

Made/makes it difficult to get the COVID-19 vaccine
Disability Disparities in COVID-19 Vaccine Status & Access
Household Pulse Survey
Disability Data on CDC COVID Data Tracker

COVID Data Tracker

United States At a Glance

Cases Total: 44,001,708
Deaths Total: 722,212
77.1% of People 12+ with At Least One Vaccination

Community Transmission: High

COVID Data Tracker Weekly Review
Find maps and charts tracking cases, deaths, and trends of COVID-19 in the United States, updated daily by 8 pm ET

Recent updates:
- New Hospitalizations by Vaccination Status - COVID-NET tab shows hospitalization rates by vaccination status
- New Rates of Cases and Deaths by Vaccination Status tab shows infection and death rates by vaccination status

COVID Data Tracker Weekly Review
An interpretive summary of this week's data

Community Transmission in the US

https://covid.cdc.gov/covid-data-tracker/#datatracker-home
Household Pulse Survey (HPS)

- 20-minute online survey of adults ≥ 18 years of age on how the pandemic is impacting households across the country from a social and economic perspective
- Sponsored by the U.S. Census Bureau
- Study sample generated from the Census’ Master Address File
- Individuals were contacted by phone/email and invited to complete the online questionnaire
- In collaboration with CDC, disability questions were added in the 3rd phase of the survey, starting April 14, 2021

HPS Disability Questions

- Collecting 4 of the 6 Washington Group Short Set on Functioning questions

- Do you have difficulty **seeing**, even when wearing glasses?
- Do you have difficulty **hearing**, even when using a hearing aid?
- Do you have difficulty **remembering or concentrating**?
- Do you have difficulty **walking or climbing stairs**?

  ![Answer Options]

  - o No – no difficulty
  - o Yes – some difficulty
  - o Yes – a lot of difficulty
  - o Cannot do at all

HPS Methods

- New random samples are selected and released for each survey wave, and responses are accepted during the data collection period.
- Responses weighted to represent the non-institutional U.S. population.

https://www.census.gov/programs-surveys/household-pulse-survey.html
HPS Disability & Vaccination Results – by Age Group

Reported receipt of 1 or more doses of COVID-19 vaccine among adults age ≥18 years by disability status and age group, Household Pulse Survey, conducted September 1–September 27, 2021, United States*

<table>
<thead>
<tr>
<th>Age Group</th>
<th>With disability</th>
<th>Without disability</th>
</tr>
</thead>
<tbody>
<tr>
<td>All adults</td>
<td>80.9%</td>
<td>85.1%</td>
</tr>
<tr>
<td>18–49 years</td>
<td>73.1%</td>
<td>78.4%</td>
</tr>
<tr>
<td>50–64 years</td>
<td>84.3%</td>
<td>89.3%</td>
</tr>
<tr>
<td>≥65 years</td>
<td>90.2%</td>
<td>95.0%</td>
</tr>
</tbody>
</table>

*Online Pulse data are updated approximately every 2 weeks

HPS Disability & Vaccination Results – by Disability Type

Reported receipt of 1 or more doses of COVID-19 vaccine among adults age ≥18 years by disability status and disability type, Household Pulse Survey, conducted September 1–September 27, 2021, United States*

*Online Pulse data are updated approximately every 2 weeks

Reported receipt of 1 or more doses of COVID-19 vaccine and intention to get vaccinated among adults age ≥18 years by disability status, Household Pulse Survey, conducted September 1–September 27, 2021, United States*

*Online Pulse data are updated approximately every 2 weeks

NIS-ACM and HPS Limitations

- Self-report vaccination coverage higher than administrative sources*
  - Self-report may not accurately reflect actual vaccination status
  - Low response rates (18.9% for NIS; 9% for Pulse)
  - Exclusion of certain households and institutionalized populations
    - Still a strong positive association between data sources – important supplement for comparing relative coverage among subpopulations
- Unvalidated (NIS) or incomplete (Pulse) disability status measurement

*COVID-19 vaccination administrative data can come from:
  - Immunization information systems (IIS),
  - Vaccine Administration Management System (VAMS), and/or
  - Direct data submissions from federal agencies and pharmacies

https://www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/pubs-resources/covid19-coverage-estimates-comparison.html
Implications
Disability Disparities in COVID-19 Vaccine Coverage

- Compared to adults without a disability, adults with a disability:
  - Had lower COVID-19 vaccination coverage
  - Were less hesitant to get vaccinated
  - Were more likely to think the vaccine is important for protection

- There might be potential for increasing vaccination coverage for adults with a disability
Disability Disparities in COVID-19 Vaccine Access

- Compared to adults without a disability, adults with a disability:
  - Anticipated or experienced more difficulty obtaining a vaccination
    - Getting an appointment online
    - Not knowing where to get vaccinated
    - Getting to vaccination sites
    - Vaccination sites not being open at convenient times

- Reducing barriers to scheduling and making vaccination sites more accessible might improve vaccination rates among people with disabilities
What can be done?

- Improved accessibility of COVID-19 health messages
  - American Sign Language (ASL)
  - Braille
  - Easy-to-read formats
  - Low literacy formats

- Make vaccination registration and scheduling websites more accessible

- Provide call-lines for people unable to navigate or use online systems

- Ensure people have access to fully accessible vaccination services such as:
  - ASL interpreters
  - Providers trained to work with people with intellectual or other developmental disabilities

- Provide options for in-home vaccination or accessible transportation services
CDC’s Efforts to Improve Vaccination Accessibility

- Adaptation of COVID-19 health messages into more accessible formats
- Providing Strategies for Reaching People with Limited Access to COVID-19 Vaccines based on feedback from listening sessions with jurisdictions
- Approximately $100M provided to Administration for Community Living to:
  - Create national Disability Information and Access Line (DIAL)
  - Provide grants to aging/disability networks in all states and territories to
    - Aid with scheduling appointments
    - Providing direct support services needed to attend appointments
    - Providing transportation to vaccination sites
    - Connecting persons unable to leave their homes independently to in-home vaccination options
Conclusion
People with disabilities are at increased risk for COVID-19 related illness and death.

Compared to adults without a disability, those with a disability are less likely to report having had a COVID-19 vaccine, despite being less likely to report hesitancy.

Adults with a disability report more difficulties obtaining a COVID-19 vaccine than adults without a disability.

Reducing barriers to scheduling and making vaccinations sites more accessible might improve COVID-19 vaccination coverage among people with disabilities.
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Thank you!

For more information, contact CDC
1-800-CDC-INFO (232-4636)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.
Vaccine Site Accessibility

J.J. Rico, CEO
Arizona Center for Disability Law
November 12, 2021
Americans with Disabilities Act (ADA)

- Prohibits discrimination in the services, programs, and activities by covered entities.
  - Covered entities: State and Local Government (Title II), Places of Public Accommodation, e.g. businesses, healthcare organizations, doctors offices, vaccine sites (Title III)
  - Reasonable modifications/accommodations: a change to how things are typically done, that will provide individuals with disabilities equal opportunity to participate in the services, programs, and activities covered by the covered entity.
Planning Ahead - Appointments and Scheduling

- Accessible registration websites.
- Alternative registration processes (call-in line).
- Group scheduling helps for people with caregivers.
- Provide videos ahead of time.
- Offer disability rights training for volunteers/staff.
- Appointment process should include opportunity to request reasonable accommodations.
Some recommendations to ensure accessibility

- Site and Day of Vaccine Accessibility
  - Registration and accommodation information needs to be accessible
    - ADA accessible bathrooms
    - Adequate parking including van accessible parking
    - Sensory items and sensory options
    - Keep wheelchairs and places to sit on hand
    - In-car vaccinations
    - Lots of signage
    - Plain language signage w/ photos
ADA and Effective Communication

- “People who have vision, hearing, or speech disabilities (“communication disabilities”) use different ways to communicate.” - U.S. Dept. of Justice

- Have lots of tools in your tool box.

- Provide fact sheets on vaccine ingredients, side effects in a variety of formats.

- Communication cards for people who are deaf and hard of hearing.

- Wear clear masks for people who read lips.
Resources

- Site accessibility: https://www.adachecklist.org/doc/fullchecklist/ada-checklist.pdf
- Web accessibility: https://www.w3.org/WAI/standards-guidelines/wcag/
Contact Information

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