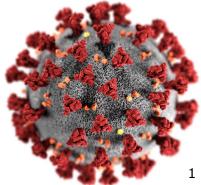
Immunization 101

Laurie Courtney MSN, RN Immunization Nurse Manager Massachusetts Department Of Public Health Immunization Division





Presenter Disclosure Information

I, Laurie Courtney, have been asked to disclose any relevant financial relationships with ACCME-defined commercial entities that are either providing financial support for this program or whose products or services are mentioned during this presentation.

I have no relevant financial relationships to disclose.

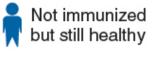
I may discuss the use of vaccines in a manner not approved by the U.S. Food and Drug Administration, but in accordance with ACIP recommendations

Outline

- Principles of vaccination
- 2021 Immunization schedules
- Vaccination and the COVID-19 pandemic
- Vaccine safety and adverse events reporting
- COVID-19 guidance
- Resources

Principles of vaccination

Community Immunity/Herd Immunity



Immunized and healthy

When no one is immunized ...

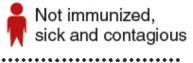
...disease spreads through the population.

When some of the population is immunized ...

...disease spreads through some of the population.

When most of the population is immunized ...

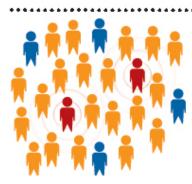
> ...spread of the disease is constrained.











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https://www.mlive.com/news/2014/12/how do vaccinations work the s.html

Types of Immunity

• Passive Immunity

- Produced by one animal or human and transferred to another
- Immediate, temporary protection
- Maternal antibodies
- Blood products, IG, plasma
- Antitoxin
- Monoclonal antibodies

Active Immunity

- Protection produced by a person's own immune system
- Lasts for many years, often for a lifetime
- Survive infection
- Vaccination

Types of Vaccines

Live-attenuated vaccines

MMR, LAIV, Varicella, oral polio, rotavirus, BCG

- Inactivated vaccines Hep A, IIV, IPV, rabies
- Subunit, recombinant, polysaccharide, and conjugate vaccines

PPSV23, PCV13, Hep B, MenACWY/B, Shingrix, HPV, Hib, Pertussis

Toxoid vaccines

DTaP, Tdap, Td

- Messenger RNA (mRNA) vaccines
- Viral vector vaccines

Timing and Spacing of Vaccines

- Refer to <u>ACIP General Best Practice</u> <u>Guidelines</u>
 - Guidelines
 - Minimum age and interval tables
 - Table of combination vaccines
 - Spacing of live and inactivated antigens
 - Spacing of antibody-containing products and vaccines

Minimum Interval Table

Recommended and Minimum Ages and Intervals Between Doses of Routinely Recommended Vaccines ^{1,2,3,4}							
Vaccine and dose number	Recommended age for this dose	Minimum age for this dose	Recommended interval to next dose	Minimum interval to next dose			
Diphtheria-tetanus-acellular pertussis (DTaP)-15	2 months	6 weeks	8 weeks	4 weeks			
DTaP-2	4 months	10 weeks	8 weeks	4 weeks			
DTaP-3	6 months	14 weeks	6-12 months ⁶	6 months ⁶			
DTaP-4	15-18 months	15 months ⁶	3 years	6 months			
DTaP-5 ⁷	4-6 years	4 years	—	_			
Haemophilus influenzae type b (Hib)-18	2 months	6 weeks	8 weeks	4 weeks			
Hib-2	4 months	10 weeks	8 weeks	4 weeks			
Hib-3 ⁹	6 months	14 weeks	6-9 months	8 weeks			
Hib-4	12-15 months	12 months	—	—			
Hepatitis A (HepA)-1 ⁵	12-23 months	12 months	6-18 months	6 months			
HepA-2	≥18 months	18 months	—	_			
Hepatitis B (HepB)-1 ¹⁰	Birth	Birth	4 weeks-4 months	4 weeks			
HepB-2	1-2 months	4 weeks	8 weeks-17 months	8 weeks			
HepB-3 ¹¹	6-18 months	24 weeks	—	—			
Herpes zoster Live (ZVL) ¹²	≥60 years	60 years ¹³	_	_			
Herpes zoster Recombinant (RZV)-1	≥50 years	50 years ¹⁴	2-6 months	4 weeks			
RZV-2	≥50 years (+2-6 months)	50 years	—	-			
Human papillomavirus (HPV) – Two-Dose Series ¹⁵							
HPV-1	11-12 years	9 years	6 months	5 months			
HPV-2	11-12 years (+ 6 months)	9 years (+ 5 months) ¹⁶	_	_			

https://www.cdc.gov/vaccines/pubs/pinkbook/downloads/appendices/A/age-interval-table.pdf

Timing and Spacing of Vaccines

TABLE 3-3. Guidelines for spacing of live and inactivated antigens

Antigen combination	Recommended minimum interval between doses
Two or more inactivated ^{(a),(b)}	May be administered simultaneously or at any interval between doses
Inactivated and live ^(c)	May be administered simultaneously or at any interval between doses
Two or more live injectable ^(c)	28 days minimum interval, if not administered simultaneously

(a) Certain experts suggest a 28-day interval between tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) vaccine and tetravalent meningococcal conjugate vaccine if they are not administered simultaneously.

(b) In persons with functional or anatomic asplenia, MCV-D and PCV13 should not be administered simultaneously and should be spaced by 4 weeks. Likewise for persons with immunosuppressive high-risk conditions indicated for PCV13 and PPSV23, PCV13 should be administered first, and PPSV23 should be administered no earlier than 8 weeks later. For persons 65 years old or older indicated for PCV13 and PPSV23, PCV13 should be administered first and PPSV23 should be administered first and PPSV23 should be administered for PCV13 and PPSV23, PCV13 should be administered first and PPSV23 should be administered 6-12 months later.

(c) The live oral vaccines Ty21a typhoid vaccine and rotavirus vaccine may be administered simultaneously with or at any interval before or after inactivated or live injectable vaccines.

Timing and Spacing of COVID-19 Vaccine and Other Vaccines

Spacing of COVID-19 Vaccine and other vaccines

- Alone, with a minimum interval of 14 days before or after administration of any other vaccine
- Shorter period in situations where the benefits of vaccination are deemed to outweigh the potential unknown risks, or to avoid barriers/delays
- If administered within 14 days of another vaccine, doses do not need to be repeated for either vaccine

Immunization schedules

2021 Recommended Adult Immunization Schedules for Persons 19 Years or Older



MMWR Feb 12, 2021: 70(6);193-196





Available at:

<u>https://www.cdc.gov/vaccines/schedules/hcp/imz/adult.html</u> (CDC site, schedule with live links) <u>https://www.cdc.gov/mmwr/volumes/70/wr/mm7006a2.htm</u> <u>https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7006a2-H.pdf</u> CDC > Schedules Home > For Health Care Providers

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Table 1. Recommended Adult Immunization Schedule for ages 19 years or older, United States, 2021

Always make recommendations by determining needed vaccines based on age (<u>Table 1</u>), assessing for medical conditions and other indications (<u>Table 2</u>), and reviewing special situations (<u>Notes</u>).

COVID-19 Vaccination

ACIP recommends use of COVID-19 vaccines within the scope of the Emergency Use Authorization or Biologics License Application for the particular vaccine. Interim ACIP recommendations for the use of COVID-19 vaccines can be found on the <u>ACIP Vaccine</u> <u>Recommendations and Guidelines</u> page.

Table 1. By age	Table 2. By indications	Schedule Changes & Guidance	Resources for health care providers	Resource: adults	s for	Download schedules app
 <u>8.5"x11" print co</u> <u>8.5"x11" print b</u> [6 pages] 			dult Immunization Sche olay current schedules f		<u>Downloa</u> Schedule	
<u>Compliant versi</u>	on of this schedule		e schedule <u>are available</u> C-info on Demand orde			

Tetanus, diphtheria, pertussis	1 dose Tdap each pregnancy; 1 dose Td/Tdap for wound management (<u>see notes</u>)					
(Tdap or Td) 🕦	d or Tdap booster every 10 years	years				
Measles, mumps, rubella (MMR) 🕐	1 or 2 doses depending on indication (if born in 1957 or later)					
Varicella (VAR) 💿	2 doses (if born in 1980 or later) 2 doses					
Zoster recombinant (RZV) 🗊				2 dos	2 doses	
Human papillomavirus (HPV) 📵	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years				
Pneumococcal conjugate (PCV13) 🕦	1 dose 1 dose					
Pneumococcal polysaccharide (PPSV23) 🕕	1 or 2 doses depending on indication					
Hepatitis A (HepA) 🕦	2 or 3 doses depending on vaccine					
Hepatitis B (HepB) 🕦	2 or 3 doses depending on vaccine					
Meningococcal A, C, W, Y (MenACWY) 🗊	1 or 2 doses depending on indication, <u>see notes</u> for booster recommendations					
Meningococcal B (MenB) 🗊	2 or 3 doses depending on vaccine and indication, <u>see notes</u> for booster recommendations					
	19 through 23 years					
<u>Haemophilus influenzae</u> <u>type b</u> (Hib) 🗊	1 or 3 doses depending on indication					

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Administer recommended vaccines if vaccination history is incomplete or unknown. Do not restart or add doses to vaccine series if there are extended intervals between doses. The use of trade names is for identification purposes only and does not imply endorsement by the ACIP or CDC.

Recommended Adult Immunization Schedule for ages 19 years or older

How to use the adult immunization schedule

Determine recommended vaccinations by age (Table 1) Assess need for additional recommended vaccinations by medical condition and other indications (Table 2)

Review vaccine types, frequencies, and intervals and considerations for special situations (**Notes**)

Vaccines in the Adult Immunization Schedule*

Vaccines	Abbreviations	Trade names
Haemophilus influenzae type b vaccine	Hib	ActHIB® Hiberix® PedvaxHIB®
Hepatitis A vaccine	HepA	Havrix® Vaqta®
Hepatitis A and hepatitis B vaccine	HepA-HepB	Twinrix ^e
Hepatitis B vaccine	НерВ	Engerix-B* Recombivax HB* Heplisav-B*
Human papillomavirus vaccine	HPV	Gardasil 9*
Influenza vaccine (inactivated)	IIV	Many brands
Influenza vaccine (live, attenuated)	LAIV4	FluMist [®] Quadrivalent
Influenza vaccine (recombinant)	RIV4	Flublok® Quadrivalent
Measles, mumps, and rubella vaccine	MMR	M-M-R II*
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-D MenACWY-CRM MenACWY-TT	Menactra® Menveo® MenQuadfi®
Meningococcal serogroup B vaccine	MenB-4C MenB-FHbp	Bexsero ^e Trumenba ^e
Pneumococcal 13-valent conjugate vaccine	PCV13	Prevnar 13*
Pneumococcal 23-valent polysaccharide vaccine	PPSV23	Pneumovax 23*
Tetanus and diphtheria toxoids	Td	Tenivac® Tdvax™
Tetanus and diphtheria toxoids and acellular pertussis vaccine	Tdap	Adacel ^e Boostrix ^e
Varicella vaccine	VAR	Varivax ^e
Zoster vaccine, recombinant	RZV	Shingrix

*Administer recommended vaccines if vaccination history is incomplete or unknown. Do not restart or add doses to vaccine series if there are extended intervals between doses. The use of trade names is for identification purposes only and does not imply endorsement by the ACIP or CDC. Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/acip) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American College of Physicians (www.acponline.org), American Academy of Family Physicians (www.aafp. org), American College of Obstetricians and Gynecologists (www.acog.org), American College of Nurse-Midwives (www.midwife.org), and American Academy of Physician Assistants (www.aapa.org).

Report

- Suspected cases of reportable vaccine-preventable diseases or outbreaks to the local or state health department
- Clinically significant postvaccination reactions to the Vaccine Adverse Event Reporting System at www.vaers.hhs.gov or 800-822-7967

Injury claims

All vaccines included in the adult immunization schedule except pneumococcal 23-valent polysaccharide (PPSV23) and zoster (RZV) vaccines are covered by the Vaccine Injury Compensation Program. Information on how to file a vaccine injury claim is available at www.hrsa.gov/vaccinecompensation.

Questions or comments

Contact www.cdc.gov/cdc-info or 800-CDC-INFO (800-232-4636), in English or Spanish, 8 a.m.–8 p.m. ET, Monday through Friday, excluding holidays.



Download the CDC Vaccine Schedules app for providers at www.cdc.gov/vaccines/schedules/hcp/schedule-app.html.

Helpful information

Complete ACIP recommendations: www.cdc.gov/vaccines/hcp/acip-recs/index.html
General Best Practice Guidelines for Immunization (including contraindications and precautions): www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html
Vaccine information statements: www.cdc.gov/vaccines/hcp/vis/index.html
Manual for the Surveillance of Vaccine-Preventable Diseases (including case identification and outbreak response): www.cdc.gov/vaccines/pubs/surv-manual
Travel vaccine recommendations: www.cdc.gov/travel
Recommended Child and Adolescent Immunization Schedule, United States, 2021: www.cdc.gov/vaccines/schedules/hcp/child-adolescent.html
ACIP Shared Clinical Decision-Making Recommendations

www.cdc.gov/vaccines/acip/acip-scdm-faqs.html



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

Table 1 Recommended Adult Immunization Schedule by Age Group, United States, 2021

Vaccine	19–26 years 27–49 years		50–64 years	≥65 years		
Influenza inactivated (IIV) or Influenza recombinant (RIV4)	1 dose annually					
Influenza live, attenuated (LAIV4)	1 dose annually					
Tetanus, diphtheria, pertussis (Tdap or Td)	1 dos		d/Tdap for wound management (see i	notes)		
			Tdap booster every 10 years			
Measles, mumps, rubella (MMR)			nding on indication 1957 or later)			
Varicella (VAR)	2 doses (if born in 1980 or later) 2 doses					
Zoster recombinant (RZV)		2 doses				
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years				
Pneumococcal conjugate (PCV13)	1 dose 1 dose					
Pneumococcal polysaccharide (PPSV23)	1 or 2 doses depending on indication 1 dose					
Hepatitis A (HepA)	2 or 3 doses depending on vaccine					
Hepatitis B (HepB)	2 or 3 doses depending on vaccine					
Meningococcal A, C, W, Y (MenACWY)	1 or 2 doses depending on indication, see notes for booster recommendations					
Meningococcal B		es depending on vaccine and inc	lication, see notes for booster recom	mendations		
(MenB)	19 through 23 years					
Haemophilus influenzae type b (Hib)		1 or 3 doses dep	ending on indication			

Recommended vaccination for adults who meet age requirement, lack documentation of vaccination, or lack evidence of past infection Recommended vaccination for adults with an additional risk factor or another indication Recommended vaccination based on shared clinical decision-making No recommendation/ Not applicable

Table 2 Recommended Adult Immunization Schedule by Medical Condition and Other Indications, United States, 2021

Vaccine	Pregnancy	Immuno- compromised (excluding HIV infection)	HIV infection CD4 count <200 ≥200 mm ³ mm ³	Asplenia, complement deficiencies	End-stage renal disease; or on hemodialysis	Heart or lung disease, alcoholism ¹	Chronic liver disease	Diabetes	Health care personnel ²	Men who have sex with men
IIV or RIV4		1 dose annually						or		
LAIV4		Not Recommended Precaution 1 dose annually					annually			
Tdap or Td	1 dose Tdap each pregnancy		1 dose Tdap, then Td or Tdap booster every 10 years							
MMR	Not Recommended*	Not Recomme	ended			1 or 2 doses de	epending on ind	lication		
VAR	Not Recommended*	Not Recomme	ended				2 doses			
RZV		2 doses at age ≥50 years								
HPV	Not Recommended*	3 doses through age 26 years 2 or 3 doses through age 26 years depending on age at initial vaccination or condition								
PCV13			1 dose							
PPSV23						1, 2, or 3 d	loses depending	g on age and ind	ication	
НерА						2 0	r 3 doses depen	ding on vaccine		
НерВ				2, 3, or 4 do	oses depending	on vaccine or o	condition	<mark><60 years</mark> ≥60 years		
MenACWY		1 or 2 d	oses depending	on indication, s	ee notes for bo	oster recommen	dations			
MenB	Precaution	2 or 3 doses depending on vaccine and indication, see notes for booster recommendations								
Hib		3 doses HSCT ^a recipients only		1 d	ose					
for adults w age require documenta vaccination	recipients only Precupients only No recommended/ No recommended// No recommended// No recommendation/ add vaccination for adults with an additional Precaution—vaccination Becommended vaccination Not recommended// No recommendation/ ement, lack risk factor or another of protection outweighs risk decision-making should not be administered. Not applicable ation of indication of adverse reaction *Vaccinate after pregnancy *Vaccinate after pregnancy									

1. Precaution for LAIV4 does not apply to alcoholism. 2. See notes for influenza; hepatitis B; measles, mumps, and rubella; and varicella vaccinations. 3. Hematopoietic stem cell transplant.

Shared Clinical Decision-Making

- Shared clinical decision-making (SCDM) vaccinations are not recommended for everyone in a particular age group or everyone in an identifiable risk group
- SCDM recommendations are individually based and informed by a decision process between the health care provider and the patient or parent/guardian
- The key distinction between routine, catch-up, and risk-based recommendations and SCDM recommendations is the default decision to vaccinate
- ACIP makes SCDM recommendations when individuals may benefit from vaccination, but broad vaccination of people in that group is unlikely to have population-level impacts

Notes Recommended Adult Immunization Schedule for ages 19 years or older, United States, 2021

For vaccine recommendations for persons 18 years of age or younger, see the Recommended Child/ Adolescent Immunization Schedule.

Additional Information

COVID-19 Vaccination

ACIP recommends use of COVID-19 vaccines within the scope of the Emergency Use Authorization or Biologics License Application for the particular vaccine. Interim ACIP recommendations for the use of COVID-19 vaccines can be found at <u>www.cdc.gov/</u> <u>vaccines/hcp/acip-recs/vacc-specific/covid-19.html</u>

Haemophilus influenzae type b vaccination

Special situations

- Anatomical or functional asplenia (including sickle cell disease): 1 dose if previously did not receive Hib; if elective splenectomy, 1 dose, preferably at least 14 days before splenectomy
- Hematopoietic stem cell transplant (HSCT): 3-dose series 4 weeks apart starting 6–12 months after successful transplant, regardless of Hib vaccination history

Hepatitis A vaccination

Routine vaccination

Not at risk but want protection from hepatitis A

(identification of risk factor not required): 2-dose series HepA (Havrix 6–12 months apart or Vaqta 6–18 months apart [minimum interval: 6 months]) or 3-dose series HepA-HepB (Twinrix at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 5 months])

Special situations

 At risk for hepatitis A virus infection: 2-dose series HepA or 3-dose series HepA-HepB as above

 - Chronic liver disease (e.g., persons with hepatitis B, hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] level greater than twice the upper limit of normal)
 - HIV infection

- Men who have sex with men - Injection or noninjection drug use

- Persons experiencing homelessness
- Work with hepatitis A virus in research laboratory or with nonhuman primates with hepatitis A virus infection
- Travel in countries with high or intermediate endemic hepatitis A (HepA-HepB [Twinrix] may be administered on an accelerated schedule of 3 doses at 0, 7, and 21–30 days, followed by a booster dose at 12 months)
- Close, personal contact with international adoptee (e.g., household or regular babysitting) in first 60 days after arrival from country with high or intermediate endemic hepatitis A (administer dose 1 as soon as adoption is planned, at least 2 weeks before adoptee's arrival)
- **Pregnancy** if at risk for infection or severe outcome from infection during pregnancy
- Settings for exposure, including health care settings targeting services to injection or noninjection drug users or group homes and nonresidential day care facilities for developmentally disabled persons (individual risk factor screening not required)

Hepatitis B vaccination

Routine vaccination

Not at risk but want protection from hepatitis B

(identification of risk factor not required): 2- or 3-dose series (2-dose series Heplisav-B at least 4 weeks apart [2dose series HepB only applies when 2 doses of Heplisav-B are used at least 4 weeks apart] or 3-dose series Engerix-B or Recombivax HB at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 8 weeks / dose 1 to dose 3: 16 weeks]) or 3-dose series HepA-HepB (Twinrix at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 5 months])

Special situations

- At risk for hepatitis B virus infection: 2-dose (Heplisav-B) or 3-dose (Engerix-B, Recombivax HB) series or 3-dose series HepA-HepB (Twinrix) as above
- Chronic liver disease (e.g., persons with hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] level greater than twice upper limit of normal)
- HIV infection
- Sexual exposure risk (e.g., sex partners of hepatitis B surface antigen [HBsAg]-positive persons; sexually active persons not in mutually monogamous relationships; persons seeking evaluation or treatment for a sexually transmitted infection; men who have sex with men)

Current or recent injection drug use

Percutaneous or mucosal risk for exposure to blood

(e.g., household contacts of HBsAg-positive persons; residents and staff of facilities for developmentally disabled persons; health care and public safety personnel with reasonably anticipated risk for exposure to blood or blood-contaminated body fluids; hemodialysis, peritoneal dialysis, home dialysis, and predialysis patients; persons with diabetes mellitus age younger than 60 years, shared clinical decision-making for persons age 60 years or older) Incarcerated persons

- Travel in countries with high or intermediate endemic hepatitis B
- Pregnancy if at risk for infection or severe outcome from infection during pregnancy (Heplisav-B not currently recommended due to lack of safety data in pregnant women)

Human papillomavirus vaccination

Routine vaccination

- HPV vaccination recommended for all persons through age 26 years: 2- or 3-dose series depending on age at initial vaccination or condition:
- Age 15 years or older at initial vaccination: 3-dose series at 0, 1–2 months, 6 months (minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 12 weeks / dose 1 to dose 3: 5 months; repeat dose if administered too soon)
- Age 9–14 years at initial vaccination and received 1 dose or 2 doses less than 5 months apart: 1 additional dose
- Age 9–14 years at initial vaccination and received 2 doses at least 5 months apart: HPV vaccination series complete, no additional dose needed
- Interrupted schedules: If vaccination schedule is interrupted, the series does not need to be restarted
- No additional dose recommended after completing series with recommended dosing intervals using any HPV vaccine

Shared clinical decision-making

 Some adults age 27–45 years: Based on shared clinical decision-making, 2- or 3-dose series as above

Special situations

 Age ranges recommended above for routine and catchup vaccination or shared clinical decision-making also apply in special situations

2021 Changes

- MenQuadfi added to the list of meningococcal ACWY vaccines; added to relevant sections
- Removed reference to zoster vaccine live (ZVL) no longer on the market
- American Academy of Physician Assistants (AAPA) now an approving partner
- Added links to FAQs for ACIP Shared Clinical Decision-Making Recommendations
- HepA notes include accelerated Twinrix dosing schedule for travel in countries with high or intermediate endemic hepatitis A
- HepB notes include shared clinical decision-making for HepB vaccines in persons with diabetes 60 years or older
- HPV notes include some clarifying notes
- Influenza notes added clarifying language regarding allergies; a bullet added about LAIV4 and antivirals
- MenB notes: added language about use in outbreak setting
- Pneumococcal notes: updated the link for routine vaccination in persons aged ≥65; bullets on PCV13 and PPSV23 timing
- Tdap notes: updated the information for wound management
- Zoster notes: removed reference to prior receipt of ZVL

https://www.cdc.gov/vaccines/schedules/hcp/schedule-changes.html#adult

COVID-19 Vaccination Updates (Interim)

Pfizer-BioNTech COVID-19 vaccine

Interim recommendation for use in persons aged ≥16 years for the prevention of coronavirus disease 2019 (COVID-19)

Moderna COVID-19 vaccine

Interim recommendation for use in persons aged ≥18 years for the prevention of coronavirus disease 2019 (COVID-19)

Janssen COVID-19 vaccine

Interim recommendation for use in persons aged ≥18 years for the prevention of coronavirus disease 2019 (COVID-19)

Notes Recommended Adult Immu

For vaccine recommendations for persons 18 years of age or younger, see the Recommended Child/ Adolescent Immunization Schedule.

Additional Information

COVID-19 Vaccination

ACIP recommends use of COVID-19 vaccines within the scope of the Emergency Use Authorization or Biologics License Application for the particular vaccine. Interim ACIP recommendations for the use of COVID-19 vaccines can be found at <u>www.cdc.gov/</u> <u>vaccines/hcp/acip-recs/vacc-specific/covid-19.html</u>

Haemophilus influenzae type b vaccination

- 1. Oliver S et al., The Advisory Committee on Immunization Practices' Interim Recommendation for Use of Pfizer-BioNTech COVID-19 Vaccine United States, December 2020. *MMWR Morb Mortal Wkly Rep* 2020;69:1922-1924. DOI: <u>http://dx.doi.org/10.15585/mmwr.mm6950e2external icon</u>
- 2. Oliver S, et al, The Advisory Committee on Immunization Practices' Interim Recommendation for Use of Moderna COVID-19 Vaccine United States, December 2020. *MMWR Morb Mortal Wkly Rep* 2021;69:1653-1656. DOI: <u>http://dx.doi.org/10.15585/mmwr.mm695152e1</u>
- 3. Oliver SE, Gargano JW, Scobie H, et al, The Advisory Committee on Immunization Practices' Interim Recommendation for Use of Janssen COVID-19 Vaccine United States, February 2021. *MMWR Morb Mortal Wkly Rep*. ePub: 2 March 2021.

Vaccination and COVID-19 Pandemic

CDC Interim Guidance for Immunization Services During COVID-19 Pandemic

- Vaccination is an essential medical service adolescents, and adults, ideally in the medical home.
- Administer all due or overdue vaccines routine immunization schedule during the same visit.



- Implement strategies to catch all patients up on vaccines.
- Includes guidance for the safe delivery of vaccines (e.g., use of personal protective equipment, physical distancing)

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https://www.cdc.gov/vaccines/pandemic-guidance/index.html slide adapted from CDC CIIW 3.3.2021: https://www2.cdc.gov/vaccines/ed/ciinc/archives/21/downloads/3 3/CDC Schedule%20Update Child.Adolescent Adult.pdf

Routine Immunization During Pandemic

- The COVID-19 pandemic is changing rapidly and requires different strategies to maintain clinical preventive services, including immunization.
- Some public health measures to control the pandemic have resulted in fewer vaccine doses administered.
- Declines in vaccination coverage increase the risk for outbreaks of vaccine-preventable diseases.
- Essential to continue routine immunization during the pandemic:
 - All individuals—children, adolescents, and adults (including pregnant women) need to stay up to date on all recommended vaccines.

Bramer CA et al, Decline in Child Vaccination Coverage During the COVID-19 Pandemic — Michigan Care Improvement Registry, May 2016–May 2020. *MMWR* Morb Mortal Wkly Rep 2020;69:630–631. <u>https://www.cdc.gov/mmwr/volumes/69/wr/mm6920e1.htm#contribAff</u> Interim Guidance for Routine and Influenza Immunization Services During the COVID-19 Pandemic <u>https://www.cdc.gov/vaccines/pandemic-guidance/index.html</u> Vaccination Recommendations during the COVID-19 Pandemic <u>https://www.cdc.gov/vaccines/schedules/hcp/schedule-changes.html</u>

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slide adapted from CDC CIIW 3.3.2021:

https://www2.cdc.gov/vaccines/ed/ciinc/archives/21/downloads/3_3/CDC_Schedule%20Update_Child.Adolescent_Adult.pdf

Tips to Increase Immunization Rates

Incorporate measures to improve vaccination rates

- Strong routine recommendation for vaccines
- Presumptive approach
- Reminder/recall
- Standing orders/vaccine only visits
- Speak from personal experience
- Provide information in foreign languages
- Avoid "missed opportunities"

What you say matters. How you say it matters even more!

Hepatitis B Birth Dose

- ACIP recommendation for ALL babies, within 24 hours of birth
 - Infants <2,000 grams, born to HBsAg negative mothers: administer 1 dose at chronological age 1 month or hospital discharge (whichever is earlier)
- COVID-19
 - More births by an unplanned provider
 - More births at an unplanned facility
 - Records not always available
- Important safety net!!

Perinatal Hepatitis B Prevention Program

- Interim guidance to prevent mother-to-child transmission of hepatitis B during the COVID-19 pandemic and related disruptions in services
- OB & pedi staff should prioritize ACIP recommendations for prevention of mother-to-child transmission of HBV infection
- HBIG and hepatitis B vaccine at birth; timely completion of hep B vaccine series; PVST



Help Protect My Baby!



Massachusetts Department of Public Health www.mass.gov/service-details/perinatal-hepatitis-b Adopted from the Georgio Department of Public Health

B virus.

my medical record.

Attention Delivery Hospital

My infant must receive hepatitis B immune globulin (HBIG) and

hepatitis B vaccine within 12 hours of birth to protect against hepatitis

Please note my hepatitis B status in

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https://www.cdc.gov/vaccines/pandemic-guidance/index.htm https://www.cdc.gov/mmwr/volumes/67/rr/rr6701a1.htm https://www.cdc.gov/vaccines/schedules/hcp/schedule-changes.html#adult

Interim Guidance for Routine and Influenza Immunization Services During the COVID-19 Pandemic

The COVID-19 pandemic has caused healthcare providers to change how they operate to continue to provide essential services to patients. Ensuring immunization services are maintained or reinitiated is essential for protecting individuals and communities from vaccine-preventable diseases and outbreaks and reducing the burden of respiratory illness during the upcoming influenza season.

The following are a collection of federal resources designed to guide vaccine planning during the COVID-19 pandemic:

10/20/2020:

- · Clarifications added to the "Purpose of the Guidance".
- Paragraphs added to "Additional Considerations for Influenza Vaccination" subsection.
- Updates made to "Vaccination of Persons with Suspected or Confirmed COVID-19 or Persons with a Known Exposure". This section is now titled "Deferring Routine Vaccination Visits for Persons with Suspected or Confirmed COVID-19 Who Are in Isolation or Persons with a Known COVID-19 Exposure Who Are in Quarantine".
- New section added titled, "Additional Considerations for Influenza Vaccination of Persons in Healthcare Facilities and Congregate Settings During the COVID-19 Pandemic"

The COVID-19 pandemic has caused healthcare providers to change how they operate to continue to provide essential services to patients. Ensuring immunization services are maintained or reinitiated is essential for protecting individuals and communities from vaccine-preventable diseases and outbreaks and reducing the burden of respiratory illness during the upcoming influenza season.

The following are a collection of federal resources designed to guide vaccine planning during the COVID-19 pandemic:

COVID-19 Vaccination Provider Requirements and Support



Vaccination providers participating in the COVID-19 Vaccination Program are required to follow the guidance for the safe delivery of vaccination services during the COVID-19 pandemic outlined on this website. Find information about requirements and resources on enrollment, ordering, and data in support of COVID-19 vaccination.

Find requirements & resources

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Delivering Vaccines Safely During COVID-19 Pandemic

- Assess the vaccination status of all patients across the life span at every health care visit.
- Administer routinely recommended vaccines to children, adolescents, and adults (including pregnant women).
- Delay vaccination for persons with suspected or confirmed COVID-19.
- Follow CDC guidance to prevent the spread of COVID-19 in health care settings
- Implement effective strategies for catch-up vaccination.
- Communicate with patients/families about how they can be safely vaccinated during the pandemic.

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https://www.cdc.gov/vaccines/pandemic-guidance/index.html

slide adapted from CDC CIIW 3.3.2021:

https://www2.cdc.gov/vaccines/ed/ciinc/archives/21/downloads/3 3/CDC Schedule%20Update Child.Adolescent Adult.pdf

Delivering Vaccines Safely During COVID-19 Pandemic

- Minimize chances for exposures:
 - Screen for COVID-19 exposure and symptoms
 - Limit physical contact with patients at triage
 - Implement use of cloth face coverings in persons >2 years
 - Ensure adherence to respiratory hygiene, cough etiquette, and hand hygiene
- Implement and enforce infection prevention and control procedures:
 - Standard precautions
 - Use of medical face masks
 - Wear gloves when administering intranasal or oral vaccines
 - Eye protection depending on level of community transmission
- Ensure physical distancing:
 - Schedule sick visits and well-child visits during different times of the day
 - Reduce crowding in waiting rooms

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<u>https://www.cdc.gov/vaccines/pandemic-guidance/index.html</u> slide adapted from CDC CIIW 3.3.2021: <u>https://www2.cdc.gov/vaccines/ed/ciinc/archives/21/downloads/3_3/CDC_Schedule%20Update_Child.Adolescent_Adult.pdf</u>

Use Personal Protection Equipment

National Center for Immunization and Respiratory Diseases

Vaccine Administration: COVID-19 Personal Protective Equipment



Face mask Recommended: All healthcare

providers (N95 masks not

recommended)

Eye protection

- Recommended: Areas of moderate/substantial community transmission
- Optional: Areas of minimal/ no community transmission unless otherwise indicated as a part of standard precautions



Gloves

- Recommended: Intranasal or oral vaccines
- Optional: Intramuscular or subcutaneous vaccines

- Gloves are not required unless the person administering the vaccine is likely to come in contact with potentially infectious body fluids or has open lesions on their hands
- If gloves are worn, they should be changed between patients
- Perform hand hygiene between patients, even if wearing gloves

www.cdc.gov/vaccines/pandemic-guidance/index.html

Guidance for Planning Vaccination Clinics Held at Satellite, Temporary, or Off-Site Locations

- The purpose of the guidance is to assist with jurisdictional planning and implementation of satellite, temporary, or off-site vaccination clinics by public and private vaccination organizations. The guidance also provides information on additional considerations that are required during the COVID-19 pandemic, including physical distancing, PPE, and enhanced sanitation efforts.
- The guidance is broken down into four categories:
 - Planning activities
 - Pre-clinic activities
 - During the clinic activities
 - <u>Post-clinic activities</u>

Guidance during th	e COVID-19 pandemic							
Planning for a satellite, temporary, or off-site vaccination clinic requires additional considerations during the COVID-19 pademic, including physical distancing, personal protective equipment (PPE), and enhanced santation efforts. These additional considerations are called out in boxes throughout this guidance. However, because COVID-19 guidance is evolving, regularly check indexing control function cortor judiance for healthcare professionals about coronavirus (COVID-19) for updated information. Consider signing up for the email updates on the website to stay informed of any changes.								
	Planners are encouraged to use							
Planning Activities	The <u>Checklist of Best Practices for Vaccination</u> <u>Clinics Held at Satellite, Temporary, or Off-Site</u>							
Pre-Clinic Activities	 Locations, ¹ ² ¹ ¹							
During the Clinic Activities	COVID-19 Patient Safety Checklist for Vaccination Clinics Held at Satellite. Temporary. or Off-Site Locations. [4] (4 pages) Satellite. Temporary. and Off-Site Vaccination Clinic							
Post-Clinic Activities	Supply Checklist							

CHECKLIST

Best Practices FOR Vaccination Clinics Held at

Satellite, Temporary, or Off-Site Locations

This checklist is a step-by-step guide to help clinic coordinators/supervisors overseeing vaccination clinics held at satellite, temporary, or offsite locations follow Centers for Disease Control and Prevention (DC) guidelines and best practices for vaccine shipment, transport, storage, handling, preparation, administration, and documentation. These CDC guidelines and best practices are essential for patient safety and vaccine effectiveness. This checklist should be used in any non-traditional vaccination clinic settings, such as workplaces, community centers, schools, makeshift clinics in remote areas, and medical facilities when vaccination occurs in the public areas or classrooms. Temporary clinics also include mass vaccination events, walk-through, curbside, and drive-through clinics, and vaccination clinic sheld during pandemic preparedness exercises. A clinic coordinator/supervisor at the site should complete, sign, and date this checklist EACH TIME a vaccination clinic is theld. To meet accountability and quality assurance standards, all signed checklists should be kept on file by the company that provided clinic staffing.

This document also contains sections, marked in red, that outline best practices for vaccination during the COVID-19 pandemic. For continued up-to-date guidance, please visit <u>www.cdc.gov/coronavirus/2019-nCoV/hcp/index.html</u>.

INSTRUCTIONS

- A staff member who will be at the vaccination clinic should be designated as the clinic coordinator/supervisor. This person will be responsible for completing the steps below and will be referred to as "you" in these instructions.
- Review this checklist during the planning stage of the vaccination clinic—well in advance of the date(s) when the clinic will be held. This checklist includes sections to be completed before, during, and after the clinic.
- 4. Contact your organization and/or health department if you have any concerns about whether vaccine was transported, stored, handled, or administered correctly, whether patients' personal information was protected appropriately, or other responses that you have marked as "NO" in rows that do not have the ¹/₂.
- This checklist should be used in conjunction with CDC's Vaccine Storage and Handling Toolkit. www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-handling-toolkit.pdf. For information about specific vaccines, consult the vaccine manufacturer's package insert.
- 6. This checklist applies ONLY to vaccines stored at REFRIGERATED temperatures (i.e., between 2–8° Celsius or 36–46° Fahrenheit).
- Sign and date the checklist upon completion of the clinic or completion of your shift (whichever comes first). (If more than one clinic coordinator/ supervisor is responsible for different aspects of the clinic, you should complete only the section(s) for which you were responsible.)
- Attach the staff sign-in sheet (with shift times and date) to the checklist (or checklists if more than one clinic supervisor is overseeing different shifts) and submit the checklist(s) to your organization to be kept on file for accountability.

Name and credentials of clinic coordinator/supervisor:

	A contingency plan is in place in case vaccines need to be replaced. The plan addresses scenarios for vaccine compromised before arrival at
	the clinic and for vaccine compromised during clinic hours.
	An emergency medical kit (including epinephrine and equipment for maintaining an airway) is at the site for the duration of the clinic.
	All vaccination providers at the site are certified in cardiopulmonary resuscitation (CPR), are familiar with the signs and symptoms of anaphylaxis, know their role in an emergency, and know the location of epinephrine and are trained in its indications and use.
	There is a designated area at the site for management of patients with urgent medical problems (e.g., fainting).
	Adequate infection control supplies are provided, including biohazard containers and supplies for hand hygiene. If administering injectable vaccines, adhesive bandages, individually packaged sterile alcohol wipes, and a sufficient number of sterile needles and syringes and a sharp container are provided.
	Staff members administering vaccines have reviewed vaccine manufacturer instructions for administration before the vaccination clinic.
	If using a standing order protocol, the protocol is current and available at the clinic/facility site.
	A process for screening for contraindications and precautions is in place.
	A sufficient number of vaccine information statements (VISs or Emergency Use Authorization [EUA]) forms, if required) for each vaccine being offered is available at the clinic/facility site.

Best Practices Checklist

- <u>Pledge for Organizations</u>
 <u>Holding Clinics</u>
- <u>Ten Principles for Holding</u>
 <u>Safe Clinics</u>
- FAQs about checklist and pledge

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YOU CALL_THE

Satellite, Temporary, and Off-Site Vaccination Clinic Supply Checklist

Below are supplies that may be needed to conduct a satellite, temporary, or off-site vaccination clinic. The list may not be comprehensive. Your state or local public health immunization program may also have a checklist.

For large-scale clinics held at large facilities, such as stadiums and arenas, or over multiple days, additional supplies will be needed. Contact your state or local public health preparedness program and work with the clinic medical director for additional guidance and assistance.

Quantity of supplies needed will vary significantly between smaller, one-day clinics held in schools, churches, or pharmacies and large-scale clinics held in arenas or held over multiple days.

VACCINES

Refrigerated vaccines

- Select the vaccine(s) that will be offered at the clinic. Diphtheria, tetanus, and pertussis (DTaP) DTaP-HepB-IPV (Pediarix) DTaP-IPV/Hib* (Pentacel) DTaP-IPV (Kinrix, Ouadracel) Haemophilus influenzae type b* (Hib) Hepatitis A (HepA) Hepatitis B (HepB) HepA-HepB (Twinrix) Human papillomavirus (9vHPV) Influenza, injectable (IIV) (in season) Influenza, live attenuated intranasal (LAIV) (in season)
- Measles, mumps, rubella* (MMR) Meningococcal ACWY* (MenACWY) Meningococcal B (MenB) Pneumococcal conjugate (PCV13) Pneumococcal polysaccharide (PPSV23) Polio, inactivated (IPV) Rotavirus* (RV) Tetanus-diphtheria, adult (Td) Tetanus, diphtheria, and pertussis (Tdap) Zoster, recombinant (RZV, Shingrix*)

Frozen vaccines

(Frozen vaccines may only be administered at satellite, temporary, and off-site clinics if they can be safely shipped to and monitored at the site. They should never be transported from one location to another.) □ Varicella*

Measles, mumps, rubella, varicella* (MMRV, ProQuad)

"Diluent for ActHIB, Hiberix, Menveo, Pentacel, Rotarix, and Shingrix comes packaged in the same container as the lyophilized component. Diluent for MMR, MMRV, and varicella comes from the manufacturer packaged with the vaccine in separate containers

CLINICAL SUPPLIES

Administration supplies

Adhesive bandages

Appropriate needles (length, guage) for the route of administration (Subcut, IM) and the expected patient population

Sterile alcohol prep pads Syringes (1 or 3 cc)



NCIRD Satellite, Temporary, and Off-Site Vaccination Clinic Supply Checklist

supplies

hol-based hand sanitizer (at least Partition screens alcohol) Paper towels tal data logger for each storage /container posable table covers ize pads dical gloves Laptops, computers, tablets, or

Sanitizing products for vaccination and preparation surfaces Sharps containers

smartphones, as well as printers

and extension cords

Screening checklist for

to direct traffic flow

and 2D barcode readers (if using),

contraindications to vaccines for

Rope, cones, and/or tape as needed

clinics, clinic flow, and easels or other

Signage for clinic hours, future

equipment for displaying

children, teens, and adults

including multiple plug outlet strips

documentation

ng forms, if needed nunization record cards unization schedule for targeted ence(s) met access or hotspot ns to record vaccine

inistration (this may be done by

supplies

nputer)

boards epads iter paper

ters, if applicable

DICAL EMERGENCY SUPPLIES

ible, it is preferable that emergency medical services (EMS) staff be available during the clinic. al staff providing vaccine should be trained in CPR and able to respond to medical emergencies.

inimum, there should be: ihistamines (diphenhydramine adryl], hydroxyzine [Atarax, aril], and syringes if needed) phone or land line to call 911

- Epinephrine in prefilled autoinjector or prefilled syringe (various doses), prepackaged syringes, vials, or ampules (Epi-pens) First aid kit Additional supplies may include: Blood pressure measuring device
- throat Oxygen ☐ Stethoscope Timing device for measuring pulse

Light source to examine mouth and

Table and chairs for patient and

vaccination provider at each

Vaccine storage units (onsite) or

appropriate vaccine cold chain

Vaccination standing orders and

Vaccine information statements

and in multiple languages as

(VISs) for each vaccine being offered

appropriate (in some instances, an

Vaccine storage temperature log(s)

Walkie-talkies or similar devices.

depending on size of the clinic

emergency use authorization [EUA]

protocols, as necessary

form may be required)

Trash bags

portable refrigerators or packouts

(for transport) that can maintain the

vaccination station

□ Wastebaskets

Tongue depressors

Tourniquet

itional supplies needed during the COVID-19 pandemic

g the COVID-19 pandemic, additional supplies are needed to protect both staff and patients, including: ditional hand sanitizer with at least 60% alcohol for

nd hygiene

ditional cleaning equipment for more frequent anings, using EPA's Registered Antimicrobial Products Use Against Novel Coronavirus SARS-CoV-2 ditional signage, tape, ropes, and cones to encourage

vsical distancing and provide one-way flow through the

e coverings for patients who arrive without one

- Hand soap, as appropriate
- Personal protective equipment (PPE) for staff. Gloves should be worn by anyone administering intranasal or oral vaccine. Depending on level of community transmission, eye protection may also be recommended.
- Thermometers for checking patient temperature before entering the clinic, if required
- Tissues

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COVID-19 Vaccine Patient Safety Checklist for Vaccination Clinics



WID-19 Vaccine

andling (continued)

ECOMMENDED PRACTICE

workday

tainer is opened

onitor and record temperatures using a digital

ata logger with a buffered probe. If storing in:

An on-site refrigerator, then record min/max temperatures at the start and end of the clinic

A gualified container and packout, then record min/max temperatures every time the con-

ent Safety Checklist for Vaccination Clinics d at Satellite, Temporary, or Off-Site Locations

RECOMMENDED RESOURCES

Transport Temperature Log

age-logger-celsius.pdf

logger-fahrenheit.pdf

dling-toolkit.pdf

ture-log.pdf

CDC's Vaccine Storage and Handling Toolkit

Refrigerator Storage Temperature Log (Celsius)

Refrigerator Storage Temperature Log (Fahrenheit)

https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-han-

https://www.cdc.gov/vaccines/covid-19/downloads/transport-tempera-

https://www.cdc.gov/vaccines/covid-19/downloads/refrigerator-stor-

https://www.cdc.gov/vaccines/covid-19/downloads/refrigerator-storage-



The following checklist is an assessment tool to help clinic coordinators/supervisors prepare for COVID-19 vaccination clinics held at satellite, temporary, or off-site locations. It includes recommended practices that are critical to ensure vaccine recipient safety. Use this checklist before hosting a vaccination clinic to assess clinic staff's competency in each recommended practice.

Note: This checklist highlights minimum practices to maintain patient safety. It is not a step-by-step guide to all activities that should be conducted at an off-site clinic. For a more detailed checklist, see Best Practices for Vaccination Clinics Held at Satellite, Temporary, or Off-Site Locations (https://www.izsummitpartners.org/content/uploads/2019/02/off-site-vaccination-clinic-checklist.pdf).

Instructions

- Review this Patient Safety Checklist with clinic staff.
- 2. For each recommended practice, select "yes" if all staff members responsible for that practice have reviewed the recommended resources and demonstrate competency.
- 3. For each recommended practice, select "no" if all staff members responsible for that practice have NOT reviewed the recommended resources and cannot demonstrate competency.
- 4. Review the entire checklist when complete. For each practice with "no" selected, assign responsible staff to review the recommended resources before proceeding with a vaccination clinic.

St

NO	RECOMMENDED PRACTICE Complete training based on core competencies for each vaccine to be provided and for each staff member's role.	RECOMMENDED RESOURCES Training and Education https://www.cdc.gov/vaccines/covid-19/training.html COVID-19 Vaccine Training: General Overview of Immunization Best Practices for Healthcare Providers	ike immediate action if a temperature excur- on occurs. Label affected vaccines "DO NOT SE," place vaccines in a separate container in the orage unit, complete the vaccine storage trou- leshooting record, and immediately contact the accine manufacturer.	Vaccine Troubleshooting Record https://www.immunize.org/catg.d/p3041.pdf CDC's Vaccine Storage and Handling Toolkit https://www.cdc.gov/vaccines/hcp/a041.pdf ding-toolkit.pdf
		https://www2.cdc.gov/vaccines/ed/covid19/SHVA/index.asp	ECOMMENDED PRACTICE	RECOMMENDED RESOURCES
		Przer-BioNiech COVID-19 Vaccine: What Healthcare Professionals Need to Know <u>https://www2.cdc.gov/vaccines/ed/covid19/pfizer/index.asp</u> Moderna COVID-19 Vaccine: What Healthcare Professionals Need to Know <u>https://www2.cdc.gov/vaccines/ed/covid19/moderna/index.asp</u>	reen every patient for contraindications and recautions to determine whether they can sceive COVID-19 vaccine and, if so, follow the scommended observation period.	Prevaccination Checklist for COVID-19 Vaccines <u>https://www.cdc.qov/vaccines/covid-19/downloads/pre-vaccina-</u> tion-screening-form.pdf Interim Clinical Considerations <u>https://www.cdc.qov/vaccines/covid-19/info-by-product/clinical-consid-</u>
	Complete training to answer common questions about COVID-19 vaccines (all staff).	https://www.cdc.gov/vaccines/covid-19/hcp/faq.html Questions about Pfizer-BioNTech COVID-19 Vaccine https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/pfizer-bioNTech-faqs.html Questions about Moderna COVID-19 Vaccine https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/pfizer-bioNTech-faqs.html 		erations.html Managing Anaphylaxis https://www.cdc.gov/vaccines/covid-19/clinical-considerations/manag- ing-anaphylaxis.html
			arform hand hygiene before vaccine preparation, atween patients, when changing gloves (if worn), nd any time hands become soiled.	Hand Hygiene in Healthcare Settings https://www.cdc.gov/handhygiene/providers/index.html
	Complete infection control training (all staff).	Infection Control Guidance for Healthcare Professionals about Coronavirus (COVID-19) https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control.html	hoose the correct equipment, including the prrect needle size. Use a new, sterile needle for ach injection.	 Vaccine Administration: Needle Gauge and Length <u>https://www.cdc.gov/vaccines/hcp/admin/downloads/vaccine-adminis-</u> <u>tration-needle-length.pdf</u>
	Complete general training on vaccine storage, handling, preparation, and administration (clinical staff).	CDC's Vaccine Storage and Handling Toolkit https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage- handling-toolkit.pdf You Call the Shots: Vaccine Storage and Handling https://www2a.cdc.gov/nip/isd/ycts/mod1/courses/sh/ce.asp You Call the Shots: Vaccine Administration https://www2.cdc.gov/vaccines/ed/vaxadmin/va/ce.asp	repare vaccine in a designated preparation area sing aseptic technique and as recommended by re manufacturer.	Pfizer-BioNTech COVID-19 Vaccine Preparation and Administration Summary <u>https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/down-</u> <u>loads/prep-and-admin-summary.pdf</u> Moderna COVID-19 Vaccine Preparation and Administration Summary <u>https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/down-</u> <u>loads/prep-and-admin-summary.pdf</u> Preparing Vaccines from a Multidose Vial <u>https://www.youtube.com/watch?v=TDcFievcUVs</u>
		NO RECOMMENDED PRACTICE Complete training based on core competencies for each vaccine to be provided and for each staff member's role. Complete training to answer common questions about COVID-19 vaccines (all staff). Complete infection control training (all staff). Complete general training on vaccine storage, handling, preparation, and administration	NO RECOMMENDED PRACTICE RECOMMENDED RESOURCES Complete training based on core competencies staff member's role. • Training and Education https://www.cdc.gov/vaccines/covid-19/training.html • COVID-19 Vaccine Training: General Overview of Immunization Best Practices for Healthcare Providers https://www2.cdc.gov/vaccines/ed/covid19/5HVA/index.asp • Pfaer-BioNTech COVID-19 Vaccine: What Healthcare Professionals Need to Know https://www2.cdc.gov/vaccines/ed/covid19/pfaer/index.asp • Moderna COVID-19 Vaccine: What Healthcare Professionals Need to Know https://www2.cdc.gov/vaccines/ed/covid19/moderna/index.asp • Complete training to answer common questions about COVID-19 vaccines (all staff). • COVID-19 Vaccine FAQs for Healthcare Professionals Need to Know https://www.cdc.gov/vaccines/covid-19/hcp/fae/html • Questions about Pfizer-BioNTech COVID-19 Vaccine https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/pfizer- bioNTech-fags.html • Questions about Moderna COVID-19 Vaccine https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/pfizer- bioNTech-fags.html • Questions about Moderna COVID-19 Vaccine https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/ moderna-fags.html • Infection Control Guidance for Healthcare Professionals about Coronavirus (COVID-19) https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/ moderna-fags.html • Complete infection control training (all staff). • Infection Control Guidance for Healthcare Professionals about Coronavirus (COVID-19) https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage- handling.preparation, and administratio	NO RECOMMENDED PRACTICE RECOMMENDED RESOURCES on occurs. Label affected vaccines 'DO NOT NO Complete training based on core competencies for each vaccine to be provided and for each staff member's role. • Training and Education https://www.cdc.gov/vaccines/cdv/de19/fitaining.html • Complete training: General Overview of Immunization Bet Practices for Healthcare Providers • Training and Education https://www.cdc.gov/vaccines/cdv/coid19/STWA/index.asp • COVID-19 Vaccine What Healthcare Professionals Need to Know • Prizee Rio/Nect COVID-19 Vaccine: What Healthcare Professionals Need to Know • COVID-19 Vaccine: What Healthcare Professionals Need to Know • COVID-19 Vaccine: What Healthcare Professionals Need to Know • COVID-19 Vaccine: Vhat Healthcare Professionals https://www.cdc.gov/vaccines/cdv/cdi19/fire/fighter/ipfizer/ bio/NEch/COVID-19 Vaccine for Ags for Healthcare Professionals https://www.cdc.gov/vaccines/cdv/dl-19/fire/fighter/ipfizer/ bio/NEch/COVID-19 Vaccine • COVID-19 Vaccine for General Staff • Questions about COVID-19 Vaccines (all staff). • COVID-19 Vaccine Ads for Healthcare Professionals about comains (COVID-19 Vaccine for Healthcare Professionals about comains (COVID-19) • Infection Control Guidance for Healthcare Professionals about comains (COVID-19) • Complete infection control training (all staff). • Core Vaccine Storage and Handling Tookit/ thrps://www.cdc.gov/vaccines/cdv/ddmin/storage/tookit/storage- handling_preparation, and administration • Core Vaccine Storage and Handling Tookit/ thrps://www.cdc.gov/vaccines/cdv/ddmin/storage/tookit/storage- handling_preparation, and admin

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https://www.cdc.gov/vaccines/covid-19/downloads/patient-safety-checklist-508.pdf

COVID-19 Vaccine

Vaccine Administration Competencies Assessment Form

COVID-19 Vaccine

Vaccine

Product Knowle

Storage

Handlin

Vaccine Administration Competencies Assessment Form



As COVID-19 vaccines become more widely available, it is crucial that they are safely and to as many eligible recipients as possible. This requires knowledgeable, confident, and c support staff. It is vital that anyone preparing and administering vaccine be properly trai opportunity to practice these skills (under supervision when needed).

Who can be assessed using this form:

- Experienced vaccinators
- · Vaccinators who have not administered vaccines in the past 12 months or longe
- Medical support staff who are not licensed to administer vaccines but assist with preparation and cold chain management
- Healthcare providers who require documentation of an observation period as pi Declaration under the Public Readiness and Emergency Preparation (PREP) Act f Countermeasures Against COVID-19
- Administrative support staff who assist with cold chain management, data report distribution of required materials to vaccine recipients

For Self-Assessment

Review the competency areas below and the core skills, techniques, and procedures area. Score yourself in the Self-Assessment column. If you check "Needs to Improve,' study, practice, or change is needed. If you check "Meets or Exceeds," you indicate the performing at the expected or higher level of competence.

Supervisors

Use this form to observe staff's readiness to perform assigned functions. Observe the prepare vaccine or administer vaccine to several recipients and score in the Supervis improvement is needed, meet with them to develop a Plan of Action for additional t should undertake to achieve the level of competency you expect. Write desired actic that needs to be addressed. This form may also be used to assist with more formal p

			Self-Ass	essment	Supe	rvisor Rev	view
	Core Skills, Techniques, and Procedures	N/A	Needs to Improve	Meets or Exceeds	Needs to Improve	Meets or Exceeds	Plan of Action*
e ct	 Completes COVID-19 vaccine training and additional training as needed.¹ 						
edge	Understands clinical guidance and can accurately assess and vaccinate based on:						
	eligibility requirements						
	vaccination schedule and history						
	contraindications						
	precautions						
	clinical considerations						
	 Understands post-vaccination clinical guidance, including: 						
	recommended observation times						
	 signs and symptoms of allergic reactions and anaphylaxis 						
	 Explains how the vaccine works, major vaccine components, and side effects. 						
je and ing	 Demonstrates knowledge of proper procedures when managing vaccine shipments, including inspecting, unpacking, accounting, and storing vaccines. 						
	 Explains the cold chain requirement for the specific COVID-19 vaccine product(s) used at the facility, including protocol(s) in case of temperature excursions or cold chain failure. 						
	 Demonstrates use of proper temperature monitoring and recording process for the facility, including the process for handling a temperature excursion. 						
	 Demonstrates understanding of all procedures necessary to prepare and transport vaccine product(s) between facilities. 						

https://www.cdc.gov/vaccines/covid-19/downloads/competencies-screening-checklist.pdf

Alternative vaccination site guidance during COVID-19

Follow clinical setting guidance and take additional precautions:

- Select a space large enough to ensure physical distancing.
- Provide specific appointment times and use other strategies to manage patient flow and avoid crowding.
- Set up unidirectional site flow with signs, ropes, or other measures.
- Have a separate vaccination area or separate hours for persons at increased risk for severe illness from COVID-19.



Image credit: Noun Project, CDC

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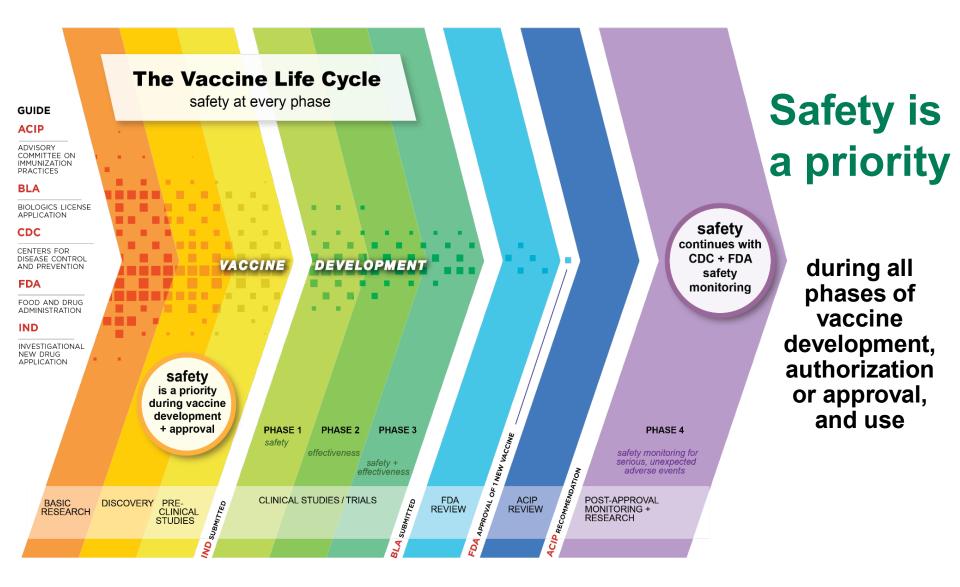
https://www.cdc.gov/vaccines/pandemic-guidance/index.html

Vaccine Safety and Adverse Event Reporting

Importance of Vaccine Safety

Public confidence in vaccine safety critical

- Higher standard of safety is expected of vaccines
- Vaccines generally given to healthy people to prevent disease (vs. ill to treat, for drugs)
- Lower public risk tolerance for adverse reactions, especially in healthy children
- Vaccination universally recommended and mandated



https://www.cdc.gov/vaccinesafety/ensuringsafety/history/index.html#anchor_1593624850886

The Provider's Role

Immunization providers can help to ensure the safety and efficacy of vaccines through proper:

- Communication on benefit and risk, and expected side effects
- Vaccine storage and handling practices
- Accurate timing and spacing of vaccine doses
- Screening for eligibility, contraindications and precautions
- Vaccine preparation and administration, and appropriate observation period
- Being able to recognize early signs and symptoms
- Management of adverse reactions
- Trained in use of emergency equipment
- Reporting to VAERS and any additional COVID specific databases
- Documentation in MIIS and medical record

Seven Rights of Vaccine Administration

- Right Patient
- Right Time
- Right Vaccine (and Diluent)
- Right Dosage
- Right Route, Needle, Technique
- Right Injection Site
- Right Documentation

Administering Vaccines: Dose, Route, Site, and Needle Size

Vaccine	Dose	Route	Inject
COVID-19	Pfizer-BioNTech ≥16 yrs: 0.3 mL	IM	Subcu Use a 2
	Moderna; Janssen ≥18 yrs: 0.5 mL		the per
Diphtheria, Tetanus, Pertussis (DTaP, DT, Tdap, Td)	0.5 mL	IM	AGE
Haemophilus influenzae type b (Hib)	0.5 mL	IM	Infants
Hepatitis A (HepA)	≤18 yrs: 0.5 mL ≥19 yrs: 1.0 mL	ІМ	Childre
Hepatitis B (HepB) Persons 11–15 yrs may be given Recombivax HB (Merck) 1.0 mL adult formulation on a 2-dose schedule.	Engerix-B; Recombivax HB ≤19 yrs: 0.5 mL ≥20 yrs: 1.0 mL Heplisav-B ≥18 yrs: 0.5 mL	М	Intran Use a 2 is appr
Human papillomavirus (HPV)	0.5 mL	IM	AGE
Influenza, live attenuated (LAIV)	0.2 mL (0.1 mL in each nostril)	Intranasal spray	Newbo
	Afluria: 0.25 mL		Infants
Influenza, inactivated (IIV); for ages 6–35 months	Fluzone: 0.25 or 0.5 mL	ім	Toddle
0-55 montais	FluLaval; Fluarix: 0.5 mL		Childre
Influenza, inactivated (IIV), 3 yrs & old- er; recombinant (RIV), 18 yrs & older;	0.5 mL	ім	(3–10) Adoles
high-dose (HD-IIV) 65 yrs & older	FluZone HD: 0.7 mL		(11-18
Measles, Mumps, Rubella (MMR)	0.5 mL	Subcut	Adults
Meningococcal serogroups A, C, W, Y (MenACWY)	0.5 mL	IM	Fema
Meningococcal serogroup B (MenB)	0.5 mL	IM	Fema
Pneumococcal conjugate (PCV)	0.5 mL	IM	Fema Male
Pneumococcal polysaccharide (PPSV)	0.5 mL	IM or Subcut	Fema Male
Polio, inactivated (IPV)	0.5 mL	IM or Subcut	

Injection Site and Needle Size							
Subcutaneous (Subcut) injection Use a 23–25 gauge needle. Choose the injection site that is appropriate to the person's age and body mass.							
AGE	NEEDLE LENGTH	INJECTION SITE					
Infants (1–12 mos)	5/8"	Fatty tissue over anterolateral thigh muscle					
Children 12 mos or older, adolescents, and adults 5/8" Fatty tissue over anterolater thigh muscle or fatty tissue over triceps							
Intramuscular (IM) injection Use a 22–25 gauge needle. Choose the injection site and needle length that is appropriate to the person's age and body mass.							
AGE NEEDLE INJECTION SITE							
Newborns (1st 28 days)	5/8"1	Anterolateral thigh muscle					
Infants (1–12 mos)	1*	Anterolateral thigh muscle					
Toddlers (1–2 years)	1–1¼"	Anterolateral thigh muscle ²					
Touciers (1–2 years)	5/8-1=1	Deltoid muscle of arm					
Children	5/8—1=1	Deltoid muscle of arm ²					
(3-10 years)	1–1¼"	Anterolateral thigh muscle					
Adolescents and teens	5/8-1=1	Deltoid muscle of arm ²					
(11–18 years)	1–1½"	Anterolateral thigh muscle					
Adults 19 years or older							
Female or male <130 lbs	5/8-1*†	Deltoid muscle of arm					
Female or male 130–152 lbs	1*	Deltoid muscle of arm					
Female 153–200 lbs Male 153–260 lbs	1–1½"	Deltoid muscle of arm					
Female 200+ lbs Male 260+ lbs	Female 200+ lbs						

A 5/8" needle may be used in newborns, preterm

NOTE: Always refer to the package insert

https://www.immunize.org/catg.d/p3085.pdf

Healthcare Provider Documentation Requirements

Providers must ensure that the recipient's permanent medical record (whether paper-based or electronic) contains all of the required vaccine administration documentation, which shall consist of the following:

- Date of administration of the vaccine
- Vaccine manufacturer and lot number of the vaccine
- Name and title of person administering the vaccine
- The address of the facility where the permanent record will reside (if appropriate)
- Date printed on the appropriate VIS
- Date the VIS was given to the vaccine recipient, or the parents/legal representative
- Best practice documentation guidelines also include: the vaccine type, dose, site, route of administration, and vaccine expiration date be documented, and any vaccine refusal (if appropriate).

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https://www.cdc.gov/vaccines/pubs/pinkbook/vac-admin.html

COVID-19 Specific Documentation Requirements

- COVID-19 vaccination providers must document vaccine administration in their medical record systems within 24 hours of administration
- Document each recipient's vaccine administration information:
 - Medical record:

The vaccine and the date it was administered, manufacturer, lot number, vaccination site and route, name and title of the person administering the vaccine

- Vaccination record card (given to recipient): Date of vaccination, product name/manufacturer, lot number, and name/location of the administering clinic or healthcare professional.
- Immunization information system (IIS):
 Report the vaccination to the appropriate state/local IIS.

Vaccine Information Statements (VISs) and EUA Factsheet for Vaccine Recipients

- Give VISs **before** vaccine is administered
- Applies to every dose of a vaccine series not just the first dose
- Opportunities for questions should be provided before each vaccination
- Available in multiple languages
- If using a combination vaccine, give VISs for each component of the vaccine, or use the Multi-Vaccine VIS, which covers some of the combination vaccines

- Give EUA **before** vaccine is administered
- Applies to every dose of a vaccine series not just the first dose
- Opportunities for questions should be provided before each vaccination
- Available in multiple languages
- Given in lieu of a VIS
- Explains what an EUA is and why it is issued

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<u>https://www.cdc.gov/vaccines/hcp/vis/about/facts-vis.html#give</u> <u>https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/covid-19-vaccines</u>

Screening

- Is key to preventing serious adverse reactions
- Specific questions intended to identify contraindications or precautions to vaccination
- Screening must occur at every immunization encounter (not just before the first dose)
- Use of a standardized form will facilitate effective screening
- For COVID-19 vaccine, screening will inform the length of the observation period

Screening Checklist for Contraindications to Vaccines for Adults

For patients: The following questions will help us determine which vaccines you may be given today. If you nswer "yes" to any question, it does not necessarily mean you should not be vaccinated. It just mean additional questions must be asked. If a question is not clear, please ask your healthcare provider to explain it

		,	es	no	don't know
	1. Are you sick today?				
	2. Do you have allergies to medications, food, a vaccine component, or latex?				
	3. Have you ever had a serious reaction after receiving a vaccination?				
	4. Do you have a long-term health problem with heart, lung, kidney, or metabolic disease (e.g., diabetes), asthma, a blood disorder, no spleen, complement component deficiency, a cochlear implant, or a spinal fluid leak? Are you on long-term aspirin therapy?				
	5. Do you have cancer, leukemia, HIV/AIDS, or any other immune system problem?				
	6. Do you have a parent, brother, or sister with an immune system problem?				
	 In the past 3 months, have you taken medications that affect your immune system, such as prednisone, other steroids, or anticancer drugs; drugs for the treatment of rheumatoid 				
	Prevaccination Checklist for COVID-19 Vaccines	ļ o	DC		
ne ny yo	r VaCcine recipients: Patient Name following questions will help us determine if there is following questions will help us determine if there is u answer "yes" to any question, if does not necessarily mean you did not be vaccinated, it just means additional questions may be asked. uestion is not clear, please ask your healthcare provider to explain it.	Yes	No		on't now
1.	Are you feeling sick today?			Τ	
2.	Have you ever received a dose of COVID-19 vaccine?				
	If yes, which vaccine product did you receive? Drizer Moderna Janssen (Johnson & Johnson) Another product				_
3.	Have you ever had an allergic reaction to: (This would include a severe allergic reaction (cg., anaphylasis) that required treatment with epinephrine or EpiPen ⁺ or that cau would also include an allergic reaction that occurred within 4 hours that caused hives, welling, or respiratory distress, including		jo to the	hospi	tal. It
	A component of a COVID-19 vaccine including either of the following:				
	 Polyethylene glycol (PEG), which is found in some medications, such as laxatives and preparations for colonoscopy procedures 				
	o Polysorbate, which is found in some vaccines, film coated tablets, and intravenous steroids.				
	A previous dose of COVID-19 vaccine.				
	 A vaccine or injectable therapy that contains multiple components, one of which is a COVID-19 vaccine component, but it is not known which component elicited the immediate reaction. 				
4.	Have you ever had an allergic reaction to another vaccine (other than COVID-19 vaccine) or an injectable medication? (This would include server allergic reaction [e.g., anaphylaxis] that required treatment with epinephrine or EpiPen* or that caused you to go to the hospital. It would also include an allergic reaction that occurred within 4 hours that caused hives, swelling, or replantly distass; including wheeting.)				
5.	Have you ever had a severe allergic reaction (e.g., anaphylaxis) to something other than a component of COVID-19 vaccine, or any vaccine or injectable medication? This would include food, pet, venom, environmental, or oral medication allergies.				
6.	Have you received any vaccine in the last 14 days?				

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Contraindication and Precautions

Contraindication

- Conditions in a recipient that increases the risk for a serious adverse reaction.
- A vaccine should not be administered when a contraindication is present.
- Because the majority of contraindications are temporary, vaccinations often can be administered later when the condition leading to a contraindication no longer exists.

Precaution

- A condition in a recipient that might increase the risk for a serious adverse reaction, might cause diagnostic confusion, or might compromise the ability of the vaccine to produce immunity.
- In general, vaccinations should be deferred when a precaution is present. However, a vaccination might be indicated in the presence of a precaution if the benefit of protection from the vaccine outweighs the risk for an adverse reaction.

Contraindications & Precautions

CDC: Table 4.1 in Best Practices https://www.cdc.gov/vaccines/hcp/aciprecs/general-recs/contraindications.html

IAC: Guide to Contraindications and Precautions to Commonly Used Vaccines https://www.immunize.org/catg.d/p307 2A.pdf

IAC: Guide to Contraindications and Precautions to Commonly Used Vaccines in Adults

https://immunize.org/catg.d/p3072.pdf

CDC: Interim Clinical Considerations for COVID-19 Vaccines

https://www.cdc.gov/vaccines/covid-<u>19/info-by-product/clinical-</u> considerations.html

Guide to Contraindications and Precautions to Commonly Used Vaccines^{1,*}

Vaccine	Contraindications ¹	Precautions ¹			
Hepatitis B (HepB)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vascine component Hypersensitivity to yeast	Moderate or severe acute illness with or without fever Infant weighing less than 2000 grams (4 lbs, 6.4 oz) ²			
Rotavirus (RV5 [RotaTeq], RV1 [Rotarix])	Severe altergic reaction (e.g., anaphylaxis) after a previous dose or to a vactine component Severe combined immunodeficiency (SCID) History of intussusception	Moderate or severe acute illness with or without fever Ahered immunocompetence other than SCID Chronic gestrointerstinal disease ¹ Spina bifda or bladder exstrophy ¹			
Diphtheria, tetanus, pertussis (DTaP) Tetanus, diphtheria, pertussis (Tdap) Tetanus, diphtheria (DT, Td)	 Severe allergic reaction (e.g., anaphylaxi) after a previous dose or to a vaccine component For pertursain-containing vaccines: Encophalopathy (e.g., coma, decreased level of consciousness, poolonged wincore) and attribut- able to another identifiable cause within 7 days of administration of a previous dees of DIPs (Tor DIaP); or of previous dose of DIP, DIaP, or Tdap (for Tdap) 	 Moderate or severe acute illness with or without fever Guillain Barei spedrome (GBS) within 6 weeks after a previous dose of tetanus toxold-con taining succine Histary of Arbus-type hypersensitivity reactions after a previous dose of dipthenia- or tetanus toxold-containing vaccine, defer vaccination until at least 10 years have elapard since the last tetanus toxold-containing reactine For USP and Idag only: Programsive or unstable neurologic disorder (including infantile sparam for DSP), uncontrolled seizures, or progressive encephalop- sthy, driv until a treatment regimen has been established and the condition has stabilized 			
Haemophilus influenzae type b (Hib)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component Age younger than 6 weeks	Moderate or severe acute illness with or without fever			
Inactivated poliovirus vaccine (IPV)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component 	Moderate or severe acute illness with or without fever Pregnancy			

Appendix B: Triage of people presenting for COVID-19 vaccination

CONTRAINDICATION TO VACCINATION

PRECAUTION TO VACCINATION

History of the following:

- Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to component of the vaccine+
- Immediate allergic reaction* of any severity after a previous dose or known (diagnosed) allergy to a component of the vaccine+

Actions:

Do not vaccinate.

- Consider referral to allergist-immunologist.
- Consider other vaccine alternative.+

Among people without a

contraindication, a history of:

 Any immediate allergic reaction* to other vaccines or injectable therapies‡

Note: people with a contraindication to mRNA COVID-19 vaccines have a precaution to Janssen COVID-19 vaccine, and vice versa. See footnote for additional information on additional measures to take in these people.#

Actions:

- Risk assessment
- Consider referral to allergist-immunologist
- 30-minute observation period if vaccinated

MAY PROCEED WITH VACCINATION

Among people without a contraindication or precaution, a history of:

- Allergy to oral medications (including the oral equivalent of an injectable medication)
- History of food, pet, insect, venom, environmental, latex, etc., allergies
- Family history of allergies

Actions:

- 30-minute observation period: people with history of anaphylaxis (due to any cause)
- 15-minute observation period: all other people

Managing Acute Vaccine Reactions

- Staff must have appropriate training and equipment to manage reactions
- Staff should be familiar with signs and symptoms of hypersensitivity/anaphylaxis
- All vaccination providers should be currently certified in CPR
- Severe reactions are rare
- Screening can help prevent reactions
- There must be a clinic emergency plan for dealing with reactions and you need to ensure that all staff are familiar with that plan
- Have Emergency Treatment Standing Orders signed before the clinic

Medical Management of Vaccine Reactions in Adults

in a Community Setting Administering any medication, including vaccines,

The table below has the potential to cause an adverse reaction. describes steps To minimize the likelihood of an adverse event, to take if an screen patients for vaccine contraindications adverse reaction and precautions prior to vaccination (see "Screenoccurs following ing Checklist for Contraindications to Vaccines vaco

they can vary from minor (e.g., soreness, itching) to the rare and serious (e.g., anaphylaxis). Be prepared.

Vaccine providers should know how to recognize allergic reactions, including anaphylaxis. Have a plan in place and supplies available

Medical Management of Vaccine Reactions in Children and Teens in a Community Setting RE

Loc The table below describes steps to take if an adverse reaction occurs following vaccination.

Administering any medication, including vaccines, has the potential to cause an adverse reaction. To minimize the likelihood of an adverse event, screen patients for vaccine contraindications and precautions prior to vaccination (see "Screening Checklist for Contraindications to Vaccines for Children and Teens" at www.immunize.org/ catg.d/p4060.pdf). When adverse reactions do

occur, they can vary from minor (e.g., soreness, itching) to the rare and serious (e.g., anaphylaxis). Be prepared.

Vaccine providers should know how to recognize allergic reactions, including anaphylaxis. Have a plan in place and supplies available to provide appropriate medical care should such an event occur.

REACTION	SIGNS AND SYMPTOMS	MANAGEMENT
Localized	Soreness, redness, itching, or swelling at the injection site	Apply a cold compress to the injection site. Consider giving an analgesic (pain reliever) or antipruritic (anti-itch) medication.
	Slight bleeding	Apply pressure and an adhesive compress over



Preparing for the Potential Management of Anaphylaxis at COVID-19 Vaccine Sites

A serious allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of a COVID-19 vaccine or an immediate allergic reaction of any severity after a previous dose or known (diagnosed) allergy to a component of a COVID-19 vaccine are contraindications to vaccination

Trained personnel and appropriate medical treatment for severe allergic reactions must be immediately available in the event that an acute anaphylactic reaction occurs following administration of a COVID-19 vaccine.

Recommended observation period following COVID-19 vaccination

CDC recommends the following observation periods after vaccination:

- · 30 minutes: Persons with an immediate allergic reaction of any severity to a vaccine or injectable therapy and persons with a history of anaphylaxis (due to any cause)
- 15 minutes: All other persons

Early recognition of anaphylaxis

Because anaphylaxis requires immediate treatment, diagnosis is primarily made based on recognition of clinical signs and symptoms, including:

Symptoms often occur within 15-30 minutes of vaccination, though it can sometimes take several hours for symptoms to appear. Early signs of anaphylaxis can resemble a mild allergic reaction, and it is often difficult to predict whether initial, mild symptoms will progress to become an anaphylactic reaction. Not all symptoms listed above are necessarily present during anaphylaxis and not all patients have skin reactions.

Healthcare personnel should consider anaphylaxis when patients present with generalized signs or symptoms such as hives, serious or life-threatening

Recommended Meds and Supplies for the Management of Anaphylaxis

Should be available at all sites	If feasible, include at locations
Epinephrine (e.g., prefilled syringe, autoinjector)*	Pulse oximeter
H1 antihistamine (e.g., diphenhydramine, cetirizine) ⁺	Oxygen
Blood pressure monitor‡	Bronchodilator (e.g., albuterol)
Timing device to assess pulse	H2 antihistamine (e.g., famotidine, cimetidine)
	Intravenous fluids
	Intubation kit
	Adult-sized pocket mask with one-way valve (also known as cardiopulmonary resuscitation (CPR) mask)

*COVID-19 vaccination locations should have **at least 3 doses** of epinephrine available at all times, and the ability to quickly obtain additional doses to replace supplies after epinephrine is administered to a patient.

People with a history of anaphylaxis who carry an epinephrine autoinjector could be reminded to bring it to their vaccination appointment.

Expired epinephrine or epinephrine that appears to be in unacceptable condition (per the manufacturer's package inserts) should be replaced.

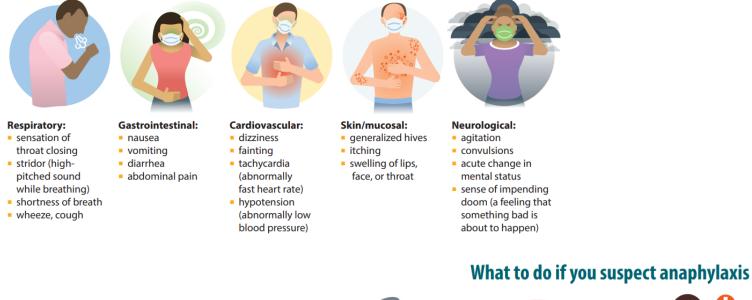
⁺Antihistamines may be given as adjunctive treatment but should not be used as initial or sole treatment for anaphylaxis. Additionally, caution should be used if oral medications are administered to people with impending airway obstruction.

^{*}Either an automated or a manual blood pressure monitor, with appropriate cuff sizes, is acceptable. If a manual blood pressure monitor is used, a stethoscope should also be available.

Recognizing and Responding to Anaphylaxis

How to recognize anaphylaxis

Healthcare personnel should consider anaphylaxis when patients present with generalized signs or symptoms such as hives, serious or life-threatening symptoms (e.g., hypotension, respiratory distress, or significant swelling of the tongue or lips), or symptoms that involve more than one body system.







Administer epinephrine





Place in supine position

Call Emergency Medical Services (EMS)

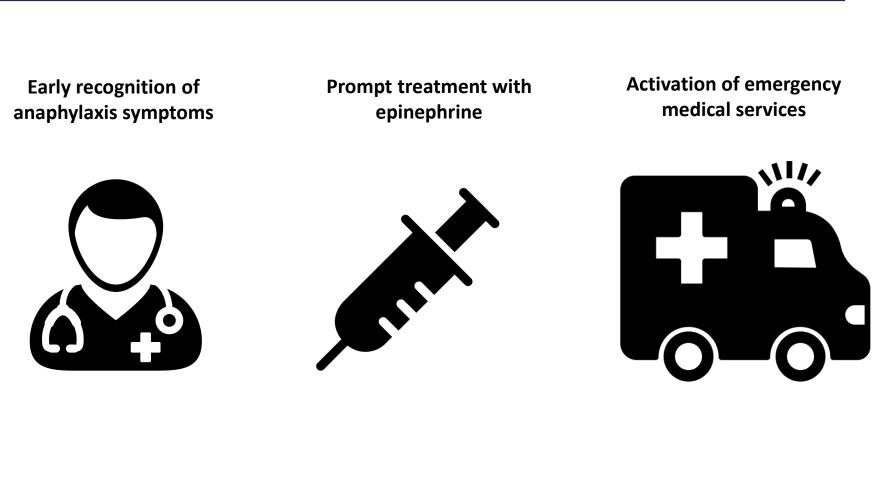


Detailed information can be found in the Interim Considerations:

Preparing for the Potential Management of Anaphylaxis After COVID-19 Vaccination

https://www.cdc.gov/vaccines/covid-19/downloads/recognizing-responding-to-anaphylaxis-508.pdf

Key Messages: Preparing for the Potential Management of Anaphylaxis



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VAERS is the Nation's Early Warning System for Vaccine Safety

- Jointly administered by the CDC & FDA
- Receives ~50,000 reports per year (pre-COVID-19)
- Passive; depends on health care providers and others to report
- Detects:
 - New or rare events



- Increases in rates of known events after immunization
- Patient risk factors associated with higher rates of adverse reactions
- "Signals", possible adverse reactions that may warrant further study
- VAERS cannot establish causality, additional studies would be needed

VAERS Form

- One page online form, found at: <u>https://vaers.hhs.gov/</u>
- Asks for information on:
 - Patient
 - Vaccine
 - Adverse event
 - Outcome of adverse event
- For help:
 - Call: 1-800-822-7967
 - Email: <u>info@VAERS.org</u>
 - Video instructions <u>https://youtu.be/sbCWh cQADFE</u>
- If COVID-19 vaccine related:
 - Put "[brand name] COVID- 19 Vaccine EUA" in the description

VAERS Vaccine Adverse Eve www.vac	ents are possible reactions or problems that occur during or after eactivation . 4. 5. 6. 17. 18 and 21 are ESSENTIAL and should be completed. Infity is kept confidential. Instructions are provided on the last two pages.			
INFORMATION ABO	UT THE PATIENT WHO RECEIV	ED THE VAC	CINE (Use Continuation Page if needed)	
1. Patient name: Wwe	Gazel		9. Prescriptions, over-the-counter medications, dietary supplements, or	
Street address:			herbal remedies being taken at the time of vaccination:	
City: State:	County:			
ZIP cada: Phana: ()	Email:		10. Allergias to madications, food, or other products:	
2. Data of birth: (mmlasiyyyy) 📖 🕄	8. Sec: 🗆 Male 💷 Female	🗆 Unknown		
4. Date and time of vaccination: (www.del/yyyy)	Time: htem	Des Des	11. Other illnesses at the time of vaccination and up to one month prior:	
5. Date and time adverse event started: Immies/yyys?	Time: hheme	Ba		
6. Age at vaccination: Vears Months 7. Tox	lay's data: immissiyyyyi	m	12. Chronic or long-standing health conditions:	
 Pregnant at time of raccination?: Ves Hyst, describe the event, any pregnancy complications, and 		18)		

INFORMATION ABOUT THE PERSON COMPLETING THIS FORM	INFORMATION ABOUT THE FACILITY WHERE VACCINE WAS GIVEN				
13. Form completed by: inemal	15. Facility/clinic name:	18. Type of facility: (Check one)			
Relation to patient: Healthcare professional staff Relation to patient (vourse)		 Doctor's office, urgent care, or hospita 			
Parentiguardianicaregiver D Dther:	Fat: ()	Pharmacy or store			
Street address:	Streat address: 🔲 Check # same as item 13	Workplace clinic			
		Public health clinic			
City: State: ZIP code:		 Nursing home or senior living facility 			
Phone: () Email:		School or student health clinic			
14. Best doctor/healthcare llame:		Other:			
about the advarse event: Phone: () Ert:		🗆 Unknown			

	4: Route is HOW veccine was piner. B	ALL ALL WATER		Use Continuation I	Ine Trees	n n		
Vaccine (type and brand name)	4. Moute is how vecche was green, o Manufacturer	Lat nu			Body site		d Dose number in series	
						-	_	_
18. Describe the adverse eventisi, treatment, and out	tcomels), if any: Isymptoms, signs, div	e course, etc.)	21. Result or out					
				r healthcare profes		clinic	/isit	
				midepartment or u	_	_		
				: Number of days ((Fknown)			-
			Hospital name: Cito:		State:			
			 Prolongation of 	f an intine basedin fo		_		-
				d during acisting hasp d during acisting hasp				
	Use Costi	nuation Page if moded	🗆 Life threatenin	g illness Grandiata	rick of death f	ion th	enenti	
19. Medical tests and laboratory results related to th	e adverse event(s): (include detec)		🗆 Disability or pa	armanent damage				
			🗆 Patient died -	Date of death: imm	for your			m
	Use Costi	nuation Page if moded	🗆 Conganital and	maly or birth defec	ct 👘		1	201
20. Has the patient recovered from the adverse event	ísi?: ⊡ Yes ⊡ No	Unknown	🗆 None of the ab	9/00	8u	MT	WT	h F
					1	2 3	4.5	
		INFORMATION			8		11 19	2 13
NO A 1 1 1 1 1 1 1 1 1 1	or to the date listed in nem 4:		Una Continu a	tion Page if needed	Dose n 15		55 27	1
	Manufacturer	Lot number	Douto	Darly rite	in coris 22	23 18		-
22. Any other vaccines received within one month pri Faccine hype and brand name!	Nanufacturer	Lot number	Route	Body site	in serie 22 28	21 [2		
faccine Hype and brand name)					28	28 2		
faccine Hype and brand name) 23. Has the patient over had an adverse event follow:					28	and bra		
	ing any previous vaccine?: IF yes, se		tiert ope at vaccination		accine type, a	nd bra	nd nama I Unkno	own
l'accina kyse endonnet nemel 23. Has the patiant over had an adverse event followi □ Yes 24. Patiant's race: □ American Indian or Alaska Diack at the applyi □ Write	ing any previous vaccine?: IF yes, ex	azibe adverse event, pe Elack or Afric D Other:	tiert ope at vaccination	, vaccination datas, v	veccine type, e Dian or Othe	nd bra	nd nama I Unkno	own

FORM FOR WALKS 2.0 (10/18

What to Report to VAERS

- Providers are <u>required by law</u> to report to VAERS:
 - Any adverse event listed on the VAERS Table of Reportable Events Following Vaccination
 - Any adverse event listed by the vaccine manufacturer as a contraindication to further doses
- Providers are <u>encouraged</u> to report:
 - Any adverse event following the administration of a vaccine, whether or not it is clear the vaccine caused the event
 Vaccine administration errors
 - Vaccine administration errors
- <u>Manufacturers are required</u> to report:
 - $\,\circ\,$ All adverse events that come to their attention

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https://vaers.hhs.gov/resources/infoproviders.html https://vaers.hhs.gov/reportevent.html

COVID-19: What to Report to VAERS

Required to report:

- Vaccine administration errors, whether or not associated with an adverse event
- Cases of COVID-19 that result in hospitalization or death
- Serious AEs regardless of causality. Serious AEs per FDA are defined as:
 - Death
 - A life-threatening AE
 - Inpatient hospitalization or prolongation of existing hospitalization
 - A persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions
 - A congenital anomaly/birth defect
 - An important medical event that based on appropriate medical judgement may jeopardize the individual and may require medical or surgical intervention to prevent one of the outcomes listed above
- Cases of Multisystem Inflammatory Syndrome

Encouraged to report:

 Any additional clinically significant AEs following vaccination, even if they are not sure if vaccination caused the event.

What to Report to VAERS

- Any clinically significant or medically important adverse event following immunization even if you are not certain the vaccine caused the event
- Some examples of adverse events to report
 - Local: unusual redness, swelling, pain at injection site
 - Systemic: unusual fever, myalgia, headache
 - Allergic: hives, pruritus, anaphylaxis
 - Vaccination errors (e.g., wrong drug administered)

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https://vaers.hhs.gov/reportevent.html https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/adverse-reactions.html



10 Things Healthcare Providers Need to Know about the Vaccine Adverse Event Reporting System (VAERS)

Reporting Adverse Events Following COVID-19 Vaccination

The federal government takes all reports of adverse events following vaccination seriously. Both the U.S. Food and Drug Administration (FDA) and CDC are monitoring the safety of COVID-19 vaccines. CDC uses numerous <u>vaccine safety monitoring</u> systems, including <u>VAERS</u>, to monitor adverse events occurring after vaccination.

1. What is VAERS?

VAERS is the nation's early warning system used by FDA and CDC to collect reports of adverse events after vaccination. VAERS can provide scientists with valuable information to assess possible safety concerns related to vaccines, including new COVID-19 vaccines. VAERS is especially useful for detecting unusual or unexpected patterns of adverse event reporting that might signal a possible safety problem with a vaccine.



2. Who should submit a report to VAERS?

FDA requires healthcare providers to report certain. adverse events that occur after administering COVID-19 vaccine, but anyone can submit a report to VAERS. Healthcare professionals, health departments, vaccine manufacturers, vaccine recipients, patients and parents or family members of people who have received a vaccine are encouraged to submit a <u>VAERS report</u> when an adverse event occurs after vaccination.

3. Types of adverse events to report

Healthcare providers are *encouraged* to report any adverse event they think is medically important or clinically significant, even if they think the event might not be related to the vaccine. However, healthcare providers are *required* to report the following adverse events after COVID-19 vaccines, in accordance with the <u>emergency</u> use authorization (EUA) for COVID-19 vaccines:

vaccines:

- Vaccine administration errors, whether associated with an adverse event or not
- Serious adverse events (as defined by federal law), regardless of causality, including:
 death
- a life-threatening event
- inpatient hospitalization or prolongation of existing hospitalization
- persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions
- congenital anomaly/birth defect
- · an important medical event that, based on
- appropriate medical judgement, may jeopardize the individual and may require medical or surgical intervention to prevent one of the outcomes listed above
- Cases of Multisystem Inflammatory Syndrome (<u>MIS-C</u> or <u>MIS-A</u>)
- Cases of COVID-19 that result in hospitalization or death

Learn more about what to report to VAERS and how to submit a report.

4. How can healthcare providers contact CDC in case of a COVID-19 vaccine safety emergency?

In case of a health emergency, and the patient needs urgent transportation to the hospital, providers should call 911. If the patient does not need transportation to the hospital, providers are encouraged to call the CDC Emergency Operations Center at (770) 488-7100. For complex vaccine safety questions, healthcare providers or health departments in the United States can request a consultation from the Clinical Immunization Safety Assessment (CISA) COVIDvax clinicians. For non-urgent concerns, providers may contact CDC-INFO.

5. What happens after a VAERS report is submitted?

The individual who submitted the VAERS report will receive electronic confirmation that the report was received. Experts from <u>CDC and FDA monitor VAERS</u> reports to identify adverse events that need to be studied further. Vaccine safety experts review all serious reports (those resulting in permanent disability, hospitalization, prolongation of existing hospitalization, life-threatening illness, congenital deformity, or death).

6. Strengths and limitations to VAERS

VAERS is a robust, nationwide reporting system, but it is subject to <u>several important limitations</u>. VAERS is not designed to assess cause and effect so VAERS reports alone cannot be used to determine if a vaccine caused or contributed to an adverse event or illness. Some reports may contain information that is incomplete, inaccurate, coincidental, or unverifiable. Most reports to VAERS are voluntary, which means they are subject to biases. Data from VAERS reports should always be interpreted with these limitations in mind.

7. CDC follow-up on VAERS reports

To better understand the circumstances around a particular adverse event, VAERS staff from CDC and FDA request follow-up medical records on <u>reports that are</u> <u>classified as "serious</u>" Serious reports include all adverse events resulting in death, life-threatening illness, hospitalization or prolongation of hospitalization, permanent disability, or congenital anomaly/birth defect. VAERS staff may also request follow-up medical records on adverse events of specific interest, like anaphylaxis.



9. What happens when a death is reported to VAERS

When a death following vaccination is reported to VAERS, CDC requests medical records about the person's death, including an autopsy report (if available) from medical authorities, as well as a death certificate and other relevant medical records. Physicians in the CDC's Immunization Safety Office review all reports of death following COVID-19 vaccination. CDC routinely analyzes death reports in a systematic way to detect unusual or unexpected patterns. This analysis is done through individual report reviews and reviews of records, analysis of automated data, and disproportionality analyses in the VAERS database, VAERS scientists do not routinely reach out to the individuals or family members who submitted the report. There is no expectation of state or local health departments to conduct investigations into reported deaths after vaccination.

10. How CDC reports potential vaccine safety issues

CDC regularly presents COVID-19 vaccine safety updates to the <u>Advisory Committee on Immunization Practices</u>. (ACIP) and publishes the latest vaccine safety findings in medical literature, including the <u>Morbidity and Mortality</u> <u>Weekly Report (MMWR)</u>. You can learn more <u>about</u> <u>COVID-19 vaccine safety monitoring</u>. Also see CDC's <u>clinical resources for COVID-19 vaccines</u>. Additionally, VAERS data with patient identifiers removed are available to the public at <u>HHS VAERS Data</u>.

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https://www.cdc.gov/coronavirus/2019-ncov/downloads/vaccines/10-things-healthcare-providers-need-to-knowabout-VAERS.pdf

CDC's Clinical Immunization Safety & Assessment (CISA) Project COVIDvax

- Extension of CDC's CISA* Project's clinical consultation service for U.S. healthcare providers and health departments for complex COVID-19 vaccine safety questions/issues that are**
 - (1) about an individual patient(s) residing in the United States
 - (2) not readily addressed by CDC or <u>ACIP</u> guidelines
- Vaccine safety subject matter expertise in multiple specialties (e.g., infectious diseases, allergy/immunology, neurology, OB/GYN, pediatrics, geriatrics)
- Requests for a CISA consult about COVID-19 vaccine safety:
 - Contact CDC-INFO: 800-CDC-INFO (800-232-4636) or webform
 - Indicate the request is for a "CDC CISA"* consult (no patient identifiers)

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^{*} https://www.cdc.gov/vaccinesafety/ensuringsafety/monitoring/cisa/index.html

^{**}Advice from CDC and CISA is meant to assist in decision-making, rather than provide direct patient management Shimabukuro, Tom. COVID-19 Vaccine safety Update. ACIP Meeting 1-21-21

Your Role in Safety



- Recognize, respond, and report anaphylaxis and other adverse events following COVID-19 vaccination to VAERS
- Report adverse events to VAERS in accordance with FDA EUA reporting requirements and CDC guidance
- Participate in CDC's v-safe program yourself when you get vaccinated and encourage patients to participate in v-safe ✓
- Communicate with patients on vaccine safety \checkmark
- Awareness of Clinical Immunization Safety Assessment (CISA) Project COVID-Vax ✓



COVID-19 Guidance

Recommendations are Rapidly Evolving...

Always check the websites for the latest guidance and information

✿ COVID-19 Vaccination	
Product Info by US Vaccine	+
Clinical Care	+
Provider Requirements and Support	+
Training and Education	+
Recipient Education	+
Health Departments	+

COVID-19 Vaccination

Clinical Resources for Each COVID-19 Vaccine

Find information for COVID-19 vaccination administration, storage and handing, reporting, and patient education for each specific vaccine

Product Information by US Vaccine



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

CDC COVID-19 Vaccination Gateway Page Takes You To....

A COVID-19 Vaccination							
Product Info by US Vaccine	+						
Clinical Care	+	NS I	V-safe	*	Clinical Considerations		mergency Use authorizations (EUAs)
Provider Requirements and Support	+		Vaccination Provider		Vaccination Data &		Planning &
Training and Education	+	20	Requirements & Support		Reporting Systems		Partnerships
Recipient Education	+	23	Toolkits		Vaccinate with		Recipient Education
Health Departments	+	8		<u>er</u> t	Confidence	- M M M M M M M M M M M M M M M M M M M	
Planning & Partnerships	+						
Vaccine Effectiveness Research							
Vaccination Toolkits	+						
COVID-19 Vaccine Data Systems	+						
Content Syndication							
Vaccinate with Confidence https://www.cdc.gov/vacci			MAIC 20	21			65

CDC COVID-19 Vaccination Gateway Page Takes You To₍₂₎.....

🕈 COVID-19 Va	ccination	U.S. COVII)-19 Vaccine Prod	luct In	formation		
Product Info by US Vaccine - Find		U.S. COVID-19 Vaccine Product Information					
		Find a suite of information and materials that are needed for each specific COVID-19 vaccine that cover administration, storage and handling, safety, and reporting.					
Janssen/J&J V	Janssen/J&J Vaccine EUA		Pfizer-BioNTech		Moderna		
EUA							
FAQs for Hea	Ithcare Professionals	Janssen/J&J					
	ACIP Recommendations		Prep & Admin Summaries	Vaccine FAQs Standing Orders			
	Ouick R	eference	Infographics				
Guic			Integraphies		Screening Form		



Healthcare Professionals







The table below provides basic information on the proper storage, preparation, and administration of the currently authorized COVID-19 vaccine products in the United States. For additional information and detailed clinical guidance go to the manufacturer's and CDC's webpages listed.

		Pfizer	Moderna	Janssen	
G E N E R A L	EUA	www.fda.gov/emergency- preparedness-and-response/ coronavirus-disease-2019-covid-19/ pfizer-biontech-covid-19-vaccine	www.fda.gov/emergency- preparedness-and-response/ coronavirus-disease-2019-covid-19/ moderna-covid-19-vaccine	www.fda.gov/emergency_ preparedness-and-response/ coronavirus-disease-2019- covid-19/janssen-covid-19-vaccin	
	CDC Vaccine Information	www.cdc.gov/vaccines/covid-19/ info-by-product/pfizer/index.html	www.cdc.gov/vaccines/covid-19/ info-by-product/moderna/index, html	www.cdc.gov/vaccines/ covid-19/info-by-product/ janssen/index.html	
	Manufacturer Contact information	Website: www.cvdvaccine.com Medical information: 800-438-1985 Customer service: 800-879-3477	Website: <u>www.modernatx.com</u> Medical Information: 866-663-3762	Website: <u>www.vaxcheck.jnj.</u> Medical information: 1-800-565-4008	
STORAGE & HANDLING	How supplied	Multidose vial: 6 doses	Multidose vial: 10 doses	Multidose vial: 5 doses	
	Diluent	0.9% sodium chloride (preservative-free, normal saline) provided in the ancillary kit. Do NOT use other diluent.	None	None	
	Storage Temperatures: Before Puncture	Between: -80°C and -60°C (-112°F and -76°F) until the expiration date -25°C and -15°C (-13°F and 5°F) for up to 2 weeks 2°C and 8°C (36°F and 46°F) for up to 120 hours (5 days)	Between: -25°C and -15°C (-13°F and 5°F) until the expiration date 2°C and 8°C (36°F and 46°F) for up to 30 days	Between: 2°C and 8°C (36°F and 46°F) until the expiration date.	
	Storage Temperatures: After puncture	Between: 2°C to 25°C (36°F to 77°F) for up to 6 hours. Discard any unused vaccine after 6 hours.	Between: 2°C and 25°C [36°F and 77°F] for up to 6 hours. Discard any unused vaccine after 6 hours.	Between: 2°C and 8°C (36°F and 46°F) for up to 6 hours. 9°C and 25°C (47°F and 77°F) fr up to 2 hours. Discard any unused vaccine after these time frames.	
	Transport Temperatures: Before Puncture	atures: 25% and 15% (12% and 5%)		Between: 2°C and 8°C (36°F and 46°F)	
	After Puncture	Between: 2°C to 25°C (36°F to 77°F) for up to 6 hours.	Between: 2°C and 25°C (36°F and 77°F) for up to 6 hours.	Between: 2°C and 8°C (36°F and 46°F) for up to 6 hours	
	Type of Vaccine	mRNA	mRNA	Viral vector	
	Age Indications	16 years of age and older	18 years of age and older	18 years of age and older	
	Schedule	2-doses, separated by 21 days. Both doses must be Pfizer- BioNTech vaccine	2 doses, separated by 28 days. Both doses should be Moderna vaccine	1 dose only	
	Dosage	0.3 mL	0.5 mL	0.5 mL	
	Needle gauge/length	22-25 gauge, 1 - 1½"	22-25 gauge, 1 - 1½*	22–25 gauge, 1 – 1½"	

		Pfizer	Moderna	Janssen		
VACCINE ADMINISTRATION	Route	Intramuscular (IM) injection	Intramuscular (IM) injection	Intramuscular (IM) injection		
	Site	Deltoid	Deltoid	Deltoid		
	Thawing Frozen Vaccine	Between: 2°C and 8°C (36°F and 46°F) or Room temperature up to 25°C (77°F) Do NOT refreeze thawed vaccine.	Between: 2°C and 8°C (36°F and 46°F) or 8°C to 25°C (46°F to 77°F) Do NOT refreeze thawed vaccine.	N/A		
	Mixing Vaccine	Mix vaccine with 1.8 mL of 0.9% sodium chloride (preservative-free, normal saline)	Do NOT mix with any diluent	Do NOT mix with any diluent		
	Contraindications/ Precautions	Contraindications - Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of the COVID-19 vaccine - Immediate allergic reaction † of any severity to a previous dose or known (diagnosed) allergy to a component of the vaccine Note: Persons who have a contraindication to an mRNA COVID-19 vaccine (Moderna or Pfizer-BioNTech) may be able to receive the Janssen COVID-19 vaccine (see footnote).* Persons who have a contraindication to Janssen COVID-19 vaccine may be able to receive an mRNA COVID-19 vaccine (see footnote).* Precautions - History of an immediate allergic reaction † to any other vaccine or injectable therapy (i.e., intramuscular, intravenus, or subcutaneous vaccines or therapies) - This includes people with a reaction to a vaccine or injectable therapy that contains multiple components, one of which is a vaccine component, but for whom it is unknown which component elicited the immediate allergic reaction People with a contraindication to mRNA COVID-19 vaccines have a precaution to Janssen COVID-19 Vaccine, and vice versa. (see footnote).* - People with a contraindication to mRNA COVID-19 vaccines have a precaution to Janssen COVID-19 Vaccine, and vice versa. (see footnote).*				
	Post-Vaccination Observation	30 minutes: Persons with a history of an immediate allergic reaction of any severity to any other vaccine or injectable therapy or a history of anaphylaxis (from any cause) 15 minutes: All other persons				
	Most common adverse events	Injection site: pain, swelling, redness Systemic: fatigue, headache, muscle pain, chills, fever, joint pain	Injection site: pain, swelling, redness Systemic: fatigue, headache, muscle pain, chills, fever, nausea, joint pain	Injection site: pain, redness, swelling Systemic: fatigue, headache, muscle pain, nausea, fever		

'For the purpose of this guidance, an immediate allergic reaction is defined as any hypersensitivity-related signs or symptoms, such as urticaria, angioedema, respiratory distress (e.g., wheezing, stridor), or anaphylaxis that occur within 4 hours following exposure to a vaccine or medication. "Consider consultation with an allergist-immunologist to help determine if the patient can safely receive vaccination. Healthcare providers and health departments may also request a consultation from the Clinical Immunization Safety Assessment COVID vax Project https://www.cdc.gov/vaccinesafety/ensuringsafety/monitoring/cisa/index.html. Vaccination of these individuals should only be done in an appropriate setting under the supervision of a healthcare provider experienced in the management of severe allergic reactions. · People with a contraindication to mRNA COVID-19 vaccines (including due to a known PEG allergy) have a precaution to Janssen COVID-19 vaccination. People who have previously received an mRNA COVID-19 vaccine dose but have a contraindication to a second dose should wait at least 28 days to receive Janssen COVID-19 vaccine. People with a contraindication to Janssen COVID-19 vaccine (including due to a known polysorbate allergy) have a precaution to mRNA COVID-19 vaccination.

CDC COVID-19 Vaccination Gateway Page Takes You To₍₃₎.....

Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Authorized in the United States



Interim considerations: preparing for the potential management of anaphylaxis after COVID-19 vaccination

Reference Materials

Summary Document for Interim Clinical Considerations 🖪
Summary Document for Interim Clinical Considerations poster 🧏
COVID-19 Vaccine Administration Errors and Deviations 🔼
COVID-19 Vaccine Administration Errors and Deviations Poster 📕

Summary of recent changes (last updated March 5, 2021):

 Public health recommendations for vaccinated people have been moved to: <u>https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html</u>

Key points

The Advisory Committee on Immunization Practices (ACIP) has issued interim recommendations for the use of <u>Pfizer-BioNTech</u>, <u>Moderna</u>, and <u>Janssen (Johnson & Johnson</u>) COVID-19 vaccines for the prevention of coronavirus disease 2019 (COVID-19) in the United States. These clinical considerations provide additional information to healthcare providers and public health officials on use of COVID-19 vaccines.

On This Page

Background

Authorized age groups

Vaccine Administration

Interchangeability of COVID-19 vaccine products

Coadministration with other vaccines

Booster doses

COVID-19 vaccination and SARS-CoV-2 infection

Vaccinating people with a known COVID-19 exposure or during COVID-19 outbreaks

Considerations for vaccination of people with certain underlying medical conditions

Vaccination of pregnant or lactating people

Vaccination of children and

Appendix A: Vaccine administration errors and deviations

Appendix B: Triage of people presenting for COVID-19 vaccination

Appendix C: Ingredients included in COVID-19 vaccines

Appendix D: Potential characteristics of allergic reactions, vasovagal reactions, and vaccine side effects following COVID-19 vaccination

CDC COVID-19 Vaccination Gateway Page Takes You To₍₄₎.....

Interim Considerations: Preparing for the Potential Management of Anaphylaxis after COVID-19 Vaccination

Summary of recent changes (last updated March 3, 2021)

 Considerations broadened to include use of Janssen (Johnson & Johnson) COVID-19 vaccine.

Key Points

Under the <u>Emergency Use Authorizations</u> ^[2] for COVID-19 vaccines, appropriate medical treatment for severe allergic reactions must be immediately available in the event that an acute anaphylactic reaction occurs following administration of a COVID-19 vaccine. These interim considerations provide information on preparing for the initial assessment and management of anaphylaxis following COVID-19 vaccination.

Overview

Personnel, medications, and supplies for assessing and managing anaphylaxis

Routine observation periods following COVID-19 vaccination

Early recognition of anaphylaxis

Management of anaphylaxis at a COVID-19 vaccination location

Considerations for anaphylaxis management in special populations

Patient counseling

Reporting anaphylaxis

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<u>https://www.cdc.gov/vaccines/covid-19/clinical-considerations/managing-anaphylaxis.html</u> pdf of page: <u>https://www.cdc.gov/vaccines/covid-19/downloads/IntermConsid-Anaphylaxis-covid19-vaccine-sites.pdf</u>

CDC COVID-19 Vaccination Gateway Page Takes You To(5).....

Training and Education



Training Required by Professional Qualification

Find the training and core competencies you will need by clicking on your professional qualification below:

Healthcare professionals who have administered vaccine in the last 12 months

Healthcare professionals or retired (past 5 years) physicians, nurses, or practical nurses who are licensed/previously licensed to administer COVID-19 vaccine but have not done so in the last 12 months

Vaccination support workers (not licensed to administer vaccine) qualified to prepare, store, handle, or transport vaccine

Administration support staff qualified to store, handle, or transport vaccine

- Core Competencies
- Based on Role
- Trainings
- Competencies Assessment Form

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

CDC COVID-19 Gateway Page Takes You To....

covii	COVID-19							
命	Your Health	Vaccines	Cases & Data	Work & School	Healthcare Workers	Health Depts	More	
							_	
		ĥ	ົາ ດິ		COVID-19 Vaccin	es		
		∭1	lí lí	๚๚๚	Before Your Appointment	>		
	WEAR A MASK	STAY 6 FEET A	APART AVOID	CROWDS	Questions & Answers	>		
	Koon it unl				Information for Specific Gro	ups >		
	Keep it up! It's critical to keep taking precautions to prevent COVID-19. Protect Yourself & Others				Different Vaccines	>		
					Possible Side Effects	>		
					VACCINES FOR HEAL	THCARE WORKERS		





Education Resources

Immunization Education and Training Home Page https://www.cdc.gov/vaccines/ed/index.html

You Call the Shots (web-based training course) https://www.cdc.gov/vaccines/ed/youcalltheshots.html

Current Issues in Immunization Webinar (CIIW) https://www.cdc.gov/vaccines/ed/ciiw/index.html

Immunization Courses: Webcasts and Self Study https://www.cdc.gov/vaccines/ed/courses.html

Pink Book Series https://www.cdc.gov/vaccines/ed/webinar-epv/index.html

ACIP General Best Practice Guidelines for Immunization

https://www.cdc.gov/vaccines/hcp/acip-recs/generalrecs/

COCA Calls/Webinars https://emergency.cdc.gov/coca/calls/index.asp

CDC Vaccine Administration webpage

https://www.cdc.gov/vaccines/hcp/admin/adminprotocols.html

NFID Webinars

https://www.nfid.org/about-nfid/continuing-medicaleducation/webinars/ CDC Recommended and Minimum Ages and Intervals Between Vaccine Doses https://www.cdc.gov/vaccines/hcp/acip-recs/generalrecs/timing.html#antibody

https://www.cdc.gov/vaccines/pubs/pinkbook/downloa ds/appendices/a/age-interval-table.pdf

Immunization Action Coalition https://www.immunize.org/

MDPH Immunization events/webinars https://www.mass.gov/service-details/immunizationdivision-events

MCAAP Immunization Initiative Webinars http://mcaap.org/immunization-cme/

CHOP Vaccine Education Center https://www.chop.edu/centers-programs/vaccineeducation-center

ACIP Recommendations gateway page

https://www.cdc.gov/vaccines/hcp/acip-recs/index.html

https://www.immunize.org/acip/

Storage and Handling Resources

- MDPH Guidelines for Compliance with Federal and State Vaccine Administration Requirements: <u>https://www.mass.gov/doc/guidelines-for-compliance-with-federal-vaccine-administration-requirements/download</u>
- CDC Storage and Handling Toolkit (with COVID-19 addendum): <u>https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html</u>
- USP COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners: <u>https://www.usp.org/covid-19/vaccine-handling-toolkit</u>

CDC Provider Resources for Vaccine Conversations with Parents

Provider Resources for Vaccine Conversations with Parents

L information for health care professionals 0 0 Conversations Home Many parents won't have questions about vaccines when you · Share your experience of how these serious diseases still exist an Conversations Home Talking to Parents about Vaccines give your strong recommendation and use language that assumes explain that outbreaks still occur in the U.S. For example: parents will accept vaccines for their child. If a parent questions your recommendation, this does not Talking to Parents about Vaccines . necessarily mean they will not accept vaccines. They consider you their most trusted source of information when it comes to vaccines Many parents have questions about their children's vaccines, and answering their questions can help parents feel and sometimes parents simply want your answers to their questions. This sheet outlines some of the topics most parents ask about and in choosing to immunize their child according to the CDC's recommended immunization schedule. The materials of whooping cough each year to CDC. Teach parents that diseases eliminated in the U.S. can infect Talking with Parents about tips for how to answer their questions. intended to help health care professionals start or continue conversations with parents. Vaccines for Infants Questions about the vaccine schedule and countries. If you need up-to-date information on specific number of vaccines diseases, share Disease Fact Sheets with parents The materials include proven communication strategies and tips for effectively addressing questions you may hea Some parents may be concerned that there are too many vaccines Remind parents that many vaccine preventable diseases can be or that their child will receive too many at one time. But, they may Preparing for Questions Parents parents, as well as information for parents who choose not to vaccinate. There is also a video featuring a CDC peo not understand that following the recommended vaccine schedule in advance if their child will get a severe or mild case. Without May Ask about Vaccines answering tough vaccine questions-It may be helpful for you as well as for parents in your practice. | information for health care professionals Understanding Vaccines and Talking with Parents about Vaccines for Infants Vaccine Safety **Talking with Parents about Vaccines for Infants** Vaccine-preventable Diseases Doctors, nurses, physician assistants, and office staff all play vaccines as though you presume that parents are ready to For health care professionals a key role in establishing and maintaining a practice-wide accept recommended vaccines for their child during that commitment to communicating effectively about vaccines visit. For example: About Vaccine Conversations with and maintaining high vaccination rates. You can all answer These two resources are companion pieces that are intended to be used together. parents' questions, provide educational materials, and ensure Instead of saying "What do you want to do about shots?," say Parents that families make and keep vaccine appointments. "Your child needs three shots today." Parents consider their child's health care professionals to Talking with Parents about Vaccines for Infants be their most trusted source of information when it come Instead of saying "Have you thought about the shots your child Provider Resources Web Tools Learn conversational techniques and find resources for discussing vaccines with pare **Talking to Parents** vac cho Resources to Share with Parents **About Infant Vaccines** Wit are **Related Pages** Bec Parents consider you their most trusted source of information when it comes to vaccines. When talking to parents about vaccines cor make a strong, effective recommendation and allow time for parents to ask questions. Hearing your answers to their questions vac can help parents feel more confident vaccinating their child according to CDC's recommended immunization schedule

Tips and Time-savers for Talking with Parents About HPV Vaccine **[**1 page]

Understanding Vaccines and Vaccine Safety

Diseases and the Vaccines that Prevent Them – For Parents of Infants and Young Children (Birth through Age 6)

Diseases and the Vaccines that Prevent Them – For Parents of Preteens and Teens (7 through 18 years old)

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As Sta Wh

mo the

Are vaccines safe

for my child?

Can vaccines overload my

baby's immune system?

Oon't infants have natura

immunity? Isn't natural

immunity better than the

kind from vaccines?

https://www.cdc.gov/vaccines/hcp/conversations/conv-materials.html https://www.cdc.gov/vaccines/partners/vaccinate-with-confidence.html

Preparing for Questions Parents May Ask about Vaccines

Yes, Millions of children safely

receive vaccines each year. The

U.S. has a long-standing vaccine

safety system that ensures

vaccines are as safe as possible.

No. Vaccines help babies fight

infections by introducing a small

mber of antigens into their

bodies. Antigens are parts of

nerms that cause babies' immune

systems to go to work. Vaccines

contain only a tiny fraction of the

Babies may get some temporary

pregnancy, but these antibodies

do not last long, leaving your baby

vulnerable to disease if you don't

immunity from mom during

accinate him/her.

antigens that babies encounter in their environment every day. From year to year, measles cases in the U.S. can range from roughly less than 100 to a couple hundred. However, in 2014, health departments reported cases in 667 people from 27 states - Between 1970-2000, health officials reported fewer than 8,000 cases of whooping cough each year in the U.S. But since 2010, health officials have reported between 15,000 and 50,000 cases

unvaccinated babies if travelers bring the diseases from other

especially dangerous for young children and there's no way to tell

No. Many people want answ

about the causes of autism ----

including me. But well designed

and conducted studies that I can

share with you show that MMR

We vaccinate children early

hospitalization or death.

vaccine is not a cause of autism.

because they are susceptible to

diseases at a young age. Young

There is no data to support tha spacing out vaccines offers safe

or effective protection from these

diseases. Any time you delay a

vaccine, you leave your baby

vulnerable to disease. It's really best to stay on schedule

children also have the highest risk

of complications that could lead to

CDC

Is there a link betweer

vaccines and autism

Why do vaccines

start so early?

What do you think of

delaying some vaccines

or following a non-

standard schedule?

Pregnancy Resources

Toolkit for Prenatal Care Providers

Increasing the Use of Maternal Vaccines by Ob-gyns, Nurse-Midwives, and Other Healthcare Professionals



This comprehensive toolkit is intended to help prenatal care providers increase the rates of maternal immunization. Ob-gyns, nurse-midwives, and other healthcare professionals who serve pregnant women can all use this toolkit. The resources here include recommendations from CDC and other relevant details about vaccinating pregnant women.

We want your feedback for this toolkit! What do you find to be most helpful? Is something missing? Your input is important! Please email feedback to <u>adultvaccines@cdc.gov</u>.



Why Maternal Vaccines Are Important

- <u>Tdap (Pertussis) Vaccine</u>
- <u>Rationale: Why Vaccinate Pregnant Women?</u> (<u>Tdap</u>)
- Influenza (Flu) Vaccine and Pregnancy
- ACIP Recommendations and Pregnancy (Flu)

Additional Resources for Prenatal Care Providers

Implementation Resources

- <u>Standards for Adult Immunization Practice</u>
- <u>Strategies for Increasing Adult Vaccination</u> <u>Rates</u>
- Getting Reimbursed for Tdap Vaccination
- <u>Resources for Provider Education</u>

Apps for Smartphones and Tablets

• CDC Vaccine Schedules

Maternal Vaccination Information

- Guidelines for Vaccinating Pregnant Women
- <u>Recommended Immunization Schedules for</u> <u>Adults</u>
- <u>Maternal Vaccination Coverage</u>
- <u>Resources for Patient Education</u>

Podcasts at CDC

Preventing Flu During Pregnancy

MAIC 2021

https://www.cdc.gov/vaccines/pregnancy/hcp-toolkit/index.html

COVID-19 Vaccination Resources

CDC COVID-19 Vaccination Home Page

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

Product Info by US Vaccine https://www.cdc.gov/vaccines/covid-19/info-byproduct/index.html

COVID-19 Vaccine Quick Reference Guide for Healthcare Professionals

https://www.cdc.gov/vaccines/covid-19/downloads/covid19vaccine-quick-reference-guide-2pages.pdf

Interim Clinical Considerations for Use of COVID-19 Vaccine <u>https://www.cdc.gov/vaccines/covid-19/info-by-</u> product/clinical-considerations.html

Summary Document for Interim Clinical Considerations https://www.cdc.gov/vaccines/covid-19/downloads/summary-interim-clinical-considerations.pdf

COVID-19 Vaccine Administration Errors and Deviations

https://www.cdc.gov/vaccines/covid-19/downloads/covid19vaccine-errors-deviations.pdf

Managing Anaphylaxis https://www.cdc.gov/vaccines/covid-19/clinicalconsiderations/managing-anaphylaxis.html Vaccinating Homebound Persons https://www.cdc.gov/vaccines/covid-19/clinicalconsiderations/homebound-persons.html

Training and Education https://www.cdc.gov/vaccines/covid-19/trainingeducation/index.html

Training and Education Resources https://www.cdc.gov/vaccines/covid-19/trainingeducation/resources.html

COVID-19 Vaccine Training Modules for Healthcare Providers https://www2.cdc.gov/vaccines/ed/covid19/

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

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

Vaccinate with Confidence

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

COVID-19 Vaccination Resources

USP COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners

https://www.usp.org/covid-19/vaccine-handling-toolkit

Pfizer

Manufacturer contact information Customer Service: 800-879-3477 Medical Information: 800-438-1985 Website: https://www.cvdvaccine.com/

EUA

https://www.fda.gov/emergency-preparedness-andresponse/coronavirus-disease-2019-covid-19/pfizer-biontech-covid- Janssen 19-vaccine

CDC Vaccine Information

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

Moderna

Manufacturer contact information Medical Information: 866-663-3762 Website: https://www.modernatx.com/

EUA

https://www.fda.gov/emergency-preparedness-andresponse/coronavirus-disease-2019-covid-19/moderna-covid-19vaccine

CDC Vaccine Information

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

Manufacturer contact information Medical Information: 800-565-4008 Website: https://vaxcheck.jnj/

EUA

https://www.fda.gov/emergency-preparedness-andresponse/coronavirus-disease-2019-covid-19/janssen-covid-19vaccine

CDC Vaccine Information https://www.cdc.gov/vaccines/covid-19/info-byproduct/janssen/index.html

COVID-19 Vaccination Resources

Vaccine Safety

Ensuring COVID-19 Vaccine Safety in the US https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety.html

Safety of COVID-19 Vaccines https://www.cdc.gov/coronavirus/2019ncov/vaccines/safety/safety-of-vaccines.html

COVID-19 Vaccine Reporting Systems https://www.cdc.gov/coronavirus/2019-ncov/vaccines/reportingsystems.html

Vaccine Adverse Event Reporting System (VAERS) https://www.cdc.gov/vaccinesafety/ensuringsafety/monitoring/vaer s/index.html

10 Things Providers Should Know about VAERS https://www.cdc.gov/coronavirus/2019ncov/downloads/vaccines/10-things-healthcare-providers-need-toknow-about-VAERS.pdf

Patient Safety Checklist for Vaccination Clinics https://www.cdc.gov/vaccines/covid-19/downloads/patient-safetychecklist-508.pdf

COVID-19 Vaccine Monitoring Systems for Pregnant People https://www.cdc.gov/coronavirus/2019ncov/vaccines/safety/monitoring-pregnant-people.html

V-SAFE & Vax Text

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

https://www.cdc.gov/vaccines/covid-19/reporting/vaxtext/

VAERS https://vaers.hhs.gov/faq.html

https://www.cdc.gov/coronavirus/2019ncov/downloads/vaccines/10-things-healthcare-providersneed-to-know-about-VAERS.pdf

ACIP https://www.cdc.gov/vaccines/acip/index.html

COVID-19 Recs (MMWRs) https://www.cdc.gov/vaccines/hcp/acip-recs/vaccspecific/covid-19.html

FDA COVID-19 Vaccines (EUAs)

https://www.fda.gov/emergency-preparedness-andresponse/coronavirus-disease-2019-covid-19/covid-19vaccines

Vaccine Storage & Handling Toolkit

with Covid-19 Vaccine Addendum <u>https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/in</u> <u>dex.html</u> 80

MA COVID-19 Vaccination Resources

COVID-19 Vaccine in MA

https://www.mass.gov/covid-19-vaccine

Main landing page for vaccine providers:

https://www.mass.gov/info-details/massachusetts-covid-19-vaccine-information#guidance-for-health-care-professionals-and-organizations-

MCVP Guidance for Vaccine Providers and Organizations:

https://www.mass.gov/info-details/massachusetts-covid-19-vaccine-program-mcvp-guidance-for-vaccine-providersand

FAQs for Providers

https://www.mass.gov/info-details/covid-19-vaccine-frequently-asked-questions-vaccine-providers

Weekly Provider Bulletins

https://www.mass.gov/info-details/massachusetts-covid-19-vaccine-program-mcvp-guidance-for-vaccine-providersand-organizations#weekly-provider-bulletins-

MA COVID-19 vaccination data report

https://www.mass.gov/info-details/covid-19-vaccination-program#weekly-covid-19-vaccination-report-

Stop COVID-19 - Vaccine education and outreach materials

https://www.mass.gov/info-details/stop-covid-19-vaccine-education-and-outreach-materials

COVID-19 Resources

CDC COVID-19 Home Page

https://www.cdc.gov/coronavirus/2019-nCoV/index.html

About COVID-19 https://www.cdc.gov/coronavirus/2019-ncov/your-health/about-covid-19.html

COVID-19 Vaccines https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html

Communication Resources https://www.cdc.gov/coronavirus/2019-ncov/vaccines/resource-center.html

Ensuring COVID-19 Vaccine Safety in the US https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety.html

Cases and Data Tracker https://covid.cdc.gov/covid-data-tracker/#datatracker-home

Work and School https://www.cdc.gov/coronavirus/2019-ncov/community/index.html

Link to ASL Videos https://www.youtube.com/playlist?list=PLvrp9iOILTQatwnqm61jqFrsfUB4RKh6J

Easy to Read Resources https://www.cdc.gov/coronavirus/2019-ncov/easy-to-read/index.html

Vaccination Clinic Planning Resources

CDC Vaccination Guidance During a Pandemic

https://www.cdc.gov/vaccines/pandemic-guidance/index.html

CDC Guidance for Planning for Vaccination Clinics Held at Satellite, Temporary or Off-Site Locations

https://www.cdc.gov/vaccines/hcp/admin/mass-clinicactivities/index.html

CDC Resources for Hosting a Vaccination Clinic (includes Best Practices)

https://www.cdc.gov/flu/business/hosting-vaccination-clinic.htm

Patient Safety Checklist for Vaccination Clinics

https://www.cdc.gov/vaccines/covid-19/downloads/patient-safetychecklist-508.pdf

COVID-19 Vaccine Administration Competencies Assessment Form

https://www.cdc.gov/vaccines/covid-19/downloads/competenciesscreening-checklist.pdf

NAIIS Checklist of Best Practices for Vaccination Clinics

<u>https://www.izsummitpartners.org/content/uploads/2017/02/NAII</u>https://www.immunizationcoalitions.org/resource-repository/s-Vaccination-Clinic-Checklist_v2.pdf

CDC Clinic Supplies Check List

https://www.cdc.gov/vaccines/hcp/admin/mass-clinicactivities/vaccination-clinic-supply-checklist.html https://www.cdc.gov/vaccines/hcp/admin/downloads/2020vaccine-clinic-supply-checklist-508.pdf

CDC Infection Control Guidance

https://www.cdc.gov/coronavirus/2019-ncov/hcp/infectioncontrol.html https://www.cdc.gov/coronavirus/2019ncov/hcp/infection-control-recommendations.html

CDC Considerations for Planning Curbside/Drive-Through Vaccination Clinics

https://www.cdc.gov/vaccines/hcp/admin/mass-clinicactivities/curbside-vaccination-clinics.html

IAC Protective Measures for Vaccinating During a Pandemic https://www.immunize.org/catg.d/p2009.pdf

IAC COVID Repository of Resources for Maintaining Immunizations during the COVID-19 Pandemic

MDPH Immunization Division Contact Information

Immunization Division Main Number

For questions about immunization recommendations, disease reporting, etc. Phone: 617-983-6800 (24/7 MDPH Epi line) Fax: 617-983-6840

Website:

https://www.mass.gov/topics/immunization

MIIS Help Desk

Fax: 617-983-4301

Email questions to: miishelpdesk@state.ma.us

Website: <u>https://www.mass.gov/service-</u> <u>details/massachusetts-immunization-information-</u> <u>system-miis</u>

MDPH Vaccine Unit

Phone: 617-983-6828 Email questions to: <u>dph-vaccine-</u> <u>management@massmail.state.ma.us</u> Website: <u>https://www.mass.gov/service-details/vaccine-</u> <u>management</u>

Immunize

COVID email box:

COVID-19-Vaccine-Plan-MA@mass.gov

- Who can vaccinate
- Who can get vaccine
- Vaccine prioritization
- Where to get vaccinated
- How 'x' group will get vaccinated

MDPH Regional Immunization Nurses

Denise Dillon Northeast 978-851-7261 denise.dillon@mass.gov

Linda Jacobs Southeast 508-441-3980 linda.jacobs@mass.gov

Phyllis Schilp Metro Boston & Central 617-983-6838 phyllis.schilp@mass.gov Theodora Wohler Metro West & Western 617-983-6837 theodora.wohler@mass.gov

Laurie Courtney Nurse Manager 617-983-6811 laurie.a.courtney@mass.gov

