

EPIC[®] Immunization Update Education for Women's Health Care Providers

Making a Strong Recommendation for Vaccines in your Practice

Clinical, Operational, & Financial Issues

March 30, 2023

Acknowledgements

EPIC[®] is presented by:
Georgia OB/Gyn Society
Georgia Chapter – American Academy of Pediatrics
Ga. Dept. of Public Health/Immunization Program

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Faculty Disclosure Information

- In accordance with ACCME* and ANCC-COA* Standards, all faculty members are required to disclose to the program audience any real or apparent conflict of interest to the content of their presentation.
- This presentation will include the most current ACIP recommendations for frequently used vaccines but is not a comprehensive review of all available vaccines.
- Some ACIP recommendations for the use of vaccines have not currently been approved by the FDA.
- Detailed information regarding all ACIP Recommendations is available at www.cdc.gov/vaccines/acip/recs/index.html

Objectives

At the end of this presentation, attendees will be able to:

- Discuss three reasons why it is important to provide vaccines at OB/Gyn practices
- Interpret the Adult Immunization Schedule
- Make a strong recommendation for vaccines in pregnant women
- Summarize the most recent CDC recommendations for storage and handling of vaccines
- State a plan to incorporate vaccines into the workflow of the practice
- Assess an immunization financial analysis

Why is it important for an OB/GYN practice to provide vaccines?

- ACOG recommends assessments of immunization status as part of the routine screening recommendations*
- Your practice may be the **only** source of health care for many of your patients
- You have an opportunity to decrease the likelihood of influenza during pregnancy (Influenza vaccine)
- You can protect pregnant women and newborns against pertussis (Tdap vaccine)
- You can offer a vaccine to prevent infection with 9 types of HPV for women and men through 45 years of age (HPV vaccine)**
- You can protect women at risk for hepatitis B infection (Hepatitis B vaccine)
- You can prevent COVID in your patients & their newborns

6/24/22

Advisory Committee on Immunization Practices (ACIP)

- 15 voting members with expertise in one or more of the following:
 - Vaccinology
 - Immunology
 - Infectious diseases
 - Pediatrics
 - Internal Medicine
 - Preventive medicine
 - Public health
 - Consumer perspectives and/or social and community aspects of immunization programs
- ACIP develops recommendations and schedules for the use of licensed vaccines



2023 Recommended Immunization Schedule for Adults Aged ≥19 Years*

- Recommended adult schedule by age group
- Recommended immunization schedule for adults aged 19 years or older by medical condition and other indications

Changes

- Clarification of the charts
- Additional information in the Notes section

READ THE FOOTNOTES TO ACCESS SPECIFIC VACCINE ADMINISTRATION DETAILS!

Vaccine	19–26 years	27-49 years	50–64 years	≥65 years				
COVID-19	2 · or 3 · dose primary series and booster (See Notes)							
Influenza inactivated (IIV4) or Influenza recombinant (RIV4)	1 dose annually							
Influenza live, attenuated (LAIV4)	a dose annually							
Tetanus, diphtheria, pertussis	1 doso	a Tdap each pregnancy; 1 dose	Td/Tdap for wound management (see r	iotes)				
(Idap or Id)		1 dose Tdap, then Td	or Tdap booster every 10 years					
Measles, mumps, rubella (MMR)		ending on indication n 1957 or later)	For healthcare personn see notes					
Varicella (VAR)	2 doses (if born in 1980 d							
Zoster recombinant (RZV)	2 doses for immunocompromising conditions (see notes) 2			oses				
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition							
Pneumococcal		1 dose PCV15 followe	d by PPSV23	See Notes				
(PCV15, PCV20, PPSV23)		e notes)	See Notes					
Hepatitis A (HepA)	2, 3, or 4 doses depending on vaccine							
Hepatitis B (HepB)	2, 3, or 4 doses depending on vaccine or condition							
Meningococcal A, C, W, Y (MenACWY)	1 or 2 doses depending on indication, see notes for booster recommendations							
Meningococcal B (MenB)	2 or 3 doses depending on vaccine and indication, see notes for booster recommendations							
	19 through 23 years							
Haemophilus influenzae type b (Hib)	1 or 3 doses depending on indication							



Table 1 Recommended Adult Immunization Schedule by Age Group, United States, 2023

Vaccine	19-26 years	27-49 years	50-64 years	≥65 years				
COVID-19	2- or 3- dose primary series and booster (See Notes)							
Influenza inactivated (IIV4) or Influenza recombinant (RIV4)	1 dose annually							
Influenza live, attenuated (LAIV4)		1 dose annually						
Tetanus, diphtheria, pertussis	1 dos	e Tdap each pregnancy; 1 dose To	l/Tdap for wound management (see	notes)				
(Idap or Id)		1 dose Tdap, then Td or	۲dap booster every 10 years	-				
Measles, mumps, rubella (MMR)		1 or 2 doses depe (if born in 1	nding on indication 957 or later)	For healthcare personnel, see notes				
Varicella (VAR)	2 doses (if born in 1980							
Zoster recombinant (RZV)	2 doses for immunocompror	oses						
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years						
Pneumococcal		1 dose PCV15 followed	by PPSV23	See Notes				
(PCV15, PCV20, PPSV23)		UK 1 dose PCV20 (see notes) See Notes						
Hepatitis A (HepA)		2, 3, or 4 doses depending on vaccine						
Hepatitis B (HepB)	2, 3, or 4 doses depending on vaccine or condition							
Meningococcal A, C, W, Y (MenACWY)	1 or 2 doses depending on indication, see notes for booster recommendations							
Meningococcal B	2 or 3 doses depending on vaccine and indication, see notes for booster recommendations							
(MenB)	19 through 23 years							
Haemophilus influenzae type b (Hib)	1 or 3 doses depending on indication							
Recommended vaccination for adults who meet age requirement, lack documentation of vaccination, or lack evidence of past infection additional risk factor or another indication clinical decision-making No recommendation of vaccination based on shared of the clinical decision of the clinical decis								

Table 2 Recommended Adult Immunization Schedule by Medical Condition or Other Indication, United States, 2023

Vaccine	Pregnancy	Immuno- compromised (excluding HIV infection)	HIV infect percentage <15% or <200 mm ³	tion CD4 e and count ≥15% and ≥200 mm ³	Asplenia, complement deficiencies	End-stage renal disease, or on hemodialysis	Heart or lung disease; alcoholism ^a	Chronic liver disease	Diabetes	Health care personnel⁵	Men who have sex with men
COVID-19		See Notes									
IIV4 or RIV4	1 dose annually										
LAIV4		Coi	ntraindicated	Į.		Precaution					nnually
Tdap or Td	1 dose Tdap each pregnancy		1 dose Tdap, then Td or Tdap booster every 10 years								
MMR	Contraindicated*	Contrainc	licated			1 or 2	doses depend	ing on indicati	on		
VAR	Contraindicated*	Contrainc	Contraindicated 2 doses								
RZV		2 dose	2 doses at age ≥19 years 2 doses at age ≥50 years								
HPV	Not Recommended [*]	3 doses ti	3 doses through age 26 years 2 or 3 doses through age 26 years depending on age at initial vaccination or condition					ndition			
Pneumococcal (PCV15, PCV20, PPSV23)			1 dose PCV15 followed by PPSV23 OR 1 dose PCV20 (see notes)								
НерА			2, 3, or 4 d <mark>oses depending on vaccine</mark>								
НерВ	3 doses (see notes)		2, 3, or 4 doses depending on vaccine or condition								
MenACWY		1 or 2 doses depending on indication, see notes for booster recommendations									
MenB	Precaution		2 or 3 doses depending on vaccine and indication, see notes for booster recommendations								
Hib		3 doses HSCT ^e recipients only	_		1 dose						
Recommended vaccination for adults who meet age requirement, lack documentation of vaccination, or lack evidence of nack Recommended vaccination for adults with an additional risk factor or another indication Recommended vaccination based on shared clinical decision-making Precaution-vaccination might be indicated if benefit of protection outweighs risk of adverse reaction Contraindicated or not recommended-vaccine should not be administered. No recommendation/ Not applicable											

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

Influenza*

- Influenza affects about 10-20% of the population every year (spreads easily).
- Responsible for significant illness, hospitalizations and deaths every year.
- In the United States, the influenza season typically occurs from October through May with peak activity occurring December to March.



*ACOG Committee Opinion number 608: Influenza Vaccination During Pregnancy, September 2014 *ACOG Committee Opinion number 558: Integrating Immunizations into Practice. April 2013

Influenza*

- Influenza begins with the abrupt onset of fever, headache, myalgia, and malaise accompanied by non-productive cough, sore throat, and nasal discharge.
- Pregnant women disproportionately experience severe sequelae including pneumonia, cardiopulmonary complications, preterm birth and death.
- This risk increases with each trimester.
- ACIP recommends that all persons 6 months and older, including pregnant women, receive the influenza vaccine starting in the fall of each year.
- Only about 54% of pregnant women receive the influenza vaccine.**

*ACOG Committee Opinion 558 April 2013

**https://www.cdc.gov/media/releases/2019/p1008-vaccination-moms-babies-unprotected.html



Reasons why pregnant women do not receive influenza vaccine*

- Lack of knowledge about seriousness of influenza
- Never have received influenza vaccine in the past
- Safety concerns about the vaccine
- Fear of needles
- Lack of insurance or access to care
- General mistrust of medical profession

Medical provider did not recommend influenza vaccine

Benefits of Influenza Vaccination during Pregnancy*

- Reduces influenza related complications in pregnant women and their infants
- Vaccinating the mother protects newborns against influenza. This is the only way of providing antibody to the newborn.
- No evidence of teratogenicity
- No evidence of harm to pregnant women or their infants even with vaccines containing thimerosal



Frequently Asked Questions About Influenza Vaccine During Pregnancy*

Why should pregnant women get a flu shot?

Changes in the immune system, heart, and lungs during pregnancy make pregnant women more prone to severe illness from flu and raises the risk for complications.

Is it safe for pregnant women and their unborn babies to get a flu shot? YES

What side effects have pregnant women experienced from flu shots?

The most common side effects are the same as other vaccine recipients (soreness, redness, swelling at injection site), fainting, headache, fever, muscle aches, nausea, fatigue.

Can pregnant women with egg allergies get vaccinated?** YES

More Frequently Asked Questions About Influenza Vaccine During Pregnancy*

How is the safety of influenza vaccination of pregnant women monitored?

The CDC and FDA conduct ongoing safety monitoring of all vaccines licensed for use in the United States using two monitoring systems:

- The Vaccine Adverse Event Reporting System (VAERS) monitors reported problems following vaccination.
- Vaccine Safety Data Link (VSD) is a collaboration between CDC and nine healthcare organizations that allows ongoing monitoring and proactive searches of vaccine related data.

The Vaccine and Medications in Pregnancy System (VAMPSS):

This is a national surveillance system designed to monitor the use and safety of vaccines and asthma medications during pregnancy, and uses two data collection approaches to get information about how vaccines and medications might affect your baby.

FDA Recommended Influenza Antigens for 2022-2023 Season in the U.S.

 Egg-based influenza vaccines 	Cell culture–based inactivated (ccllV4) and recombinant (RIV4) influenza vaccines
 an influenza A/Victoria/2570/2019	 an influenza A/Wisconsin/588/2019
(H1N1)pdm09-like virus an influenza A/Darwin/9/2021	(H1N1)pdm09-like virus an influenza A/Darwin/6/2021
(H3N2)-like virus an influenza	(H3N2)-like virus an influenza
B/Austria/1359417/2021 (Victoria	B/Austria/1359417/2021 (Victoria
lineage)- like virus, and an influenza B/Phuket/3073/2013	lineage)- like virus, an influenza B/Phuket/3073/2013
(Yamagata lineage)-like virus	(Yamagata lineage)-like virus

ACIP recommends annual influenza vaccine for all persons 6 months of age and older who do not have contraindications.

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Influenza Vaccines for 2022-2023 Season

Trade name (manufacturer)	Presentations	Age indication	μg HA (IIV4s and RIV4) or virus count (LAIV4) for each vaccine virus (per dose)	Route	Mercury (from thimerosal, if present), μg/0.5 mL
IIV4 (standard-dose, egg-based va	ccines [†])				
Afluria Quadrivalent	0.5-mL PFS [§]	≥3 yrs [§]	15 μg/0.5 mL	IM¶	**
(Seqirus)	5.0-mL MDV [§]	≥6 mos [§] (needle and syringe) 18 through 64 yrs (iet injector)	7.5 μg/0.25 mL 15 μg/0.5 mL	IM¶	24.5
Fluarix Quadrivalent (GlaxoSmithKline)	0.5-mL PFS	≥6 mos	15 μg/0.5 mL	IM¶	_
FluLaval Quadrivalent (GlaxoSmithKline)	0.5-mL PFS	≥6 mos	15 μg/0.5 mL	IM¶	—
Fluzone Quadrivalent	0.5-mL PFS ⁺⁺	≥6 mos ^{††}	15 μg/0.5 mL	IM¶	—
(Sanofi Pasteur)	0.5-mL SDV ⁺⁺	≥6 mos ^{††}	15 μg/0.5 mL	IM¶	—
	5.0-mL MDV ^{††}	≥6 mos ^{††}	7.5 μg/0.25 mL 15 μg/0.5 mL	IM¶	25
ccIIV4 (standard-dose, cell culture-	-based vaccine)				
Flucelvax Quadrivalent	0.5-mL PFS	≥6 mos	15 μg/0.5 mL	IM¶	—
(Seqirus)	5.0-mL MDV	≥6 mos	15 μg/0.5 mL	IM¶	25
HD-IIV4 (high-dose, egg-based vac Fluzone High-Dose Quadrivalent (Sanofi Pasteur)	c cine[†]) 0.7-mL PFS	≥65 yrs	60 µg/0.7 mL	IM¶	_
allV4 (standard-dose, egg-based v Fluad Quadrivalent (Seqirus)	accine [†] with MF59 adjuvan 0.5-mL PFS	t) ≥65 yrs	15 μg/0.5 mL	IM¶	_
RIV4 (recombinant HA vaccine) Flublok Quadrivalent (Sanofi Pasteur)	0.5-mL PFS	≥18 yrs	45 μg/0.5 mL	IM¶	_
LAIV4 (egg-based vaccine [†]) FluMist Quadrivalent (AstraZeneca)	0.2-mL prefilled single- use intranasal sprayer	2 through 49 yrs	10 ^{6.5–7.5} fluorescent focus units/0.2 mL	NAS	_

Abbreviations: ACIP = Advisory Committee on Immunization Practices; FDA = Food and Drug Administration; HA = hemagglutinin; IIV4 = inactivated influenza vaccine, quadrivalent; IM = intramuscular; LAIV4 = live attenuated influenza vaccine, quadrivalent; MDV = multidose vial; NAS = intranasal; PFS = prefilled syringe; RIV4 = recombinant influenza vaccine, quadrivalent; SDV = single-dose vial.

Manufacturer	Trade Name	How Supplied	Mercury Content	Age Range	CVX Code	Vaccine Product Billing Code ²
			(mcg Hg/0.5mL)		Coue	СРТ
AstraZeneca	FluMist (LAIV4)	0.2 mL (single-use nasal spray)	0	2 through 49 years	149	90672
ClaveSmithKline	Fluarix (IIV4)	0.5 mL (single-dose syringe)	0	6 months & older ³	150	90686
Giaxosmitrikiine	FluLaval (IIV4)	0.5 mL (single-dose syringe)	0	6 months & older ³	150	90686
	Flublok (RIV4)	0.5 mL (single-dose syringe)	0	18 years & older	185	90682
	Fluzone (IIV4)	0.5 mL (single-dose syringe)	0	6 months & older ³	150	90686
Sanofi		0.5 mL (single-dose vial)	0	6 months & older ³	150	90686
		5.0 mL multi-dose vial (0.25 mL dose)	25	6 through 35 months ³	158	90687
		5.0 mL multi-dose vial (0.5 mL dose)	25	6 months & older	158	90688
	Fluzone High-Dose (IIV4-HD)	0.7 mL (single-dose syringe)	0	65 years & older	197	90662
Seqirus		5.0 mL multi-dose vial (0.25 mL dose)	24.5	6 through 35 months ³	158	90687
	Afluria <mark>(</mark> IIV4)	5.0 mL multi-dose vial (0.5 mL dose)	24.5	3 years & older	158	90688
		0.5 mL (single-dose syringe)	0	3 years & older ³	150	90686
	Fluad (allV4)	0.5 mL (single-dose syringe)	0	65 years & older	205	90694
		0.5 mL (single-dose syringe)	0	6 months & older ³	171	90674
		5.0 mL multi-dose vial (0.5 mL dose)	25	6 months & older ³	186	90756

Influenza Vaccine Products for the 2022–2023 Influenza Season

NOTES

1. IIV4 = egg-based quadrivalent inactivated 2. An administration code should always be influenza vaccine (injectable); where necessary to refer to cell culture-based vaccine, the prefix "cc" is used (e.g., ccIIV4); RIV4 = quadrivalent recombinant hemagglutinin influenza vaccine (injectable); allV4 = adjuvanted quadrivalent inactivated influenza vaccine.

reported in addition to the vaccine product code. Note: Third party payers may have specific policies and guidelines that might require providing additional information on their claim forms.

3. Dosing for infants and children age 6 through 35 months: Afluria 0.25 mL • Fluarix 0.5 mL Flucelvax 0.5 mL

• Fluzone 0.25 mL or 0.5 mL

FluLaval 0.5 mL

4. Afluria is approved by the Food and Drug Administration for intramuscular administration with the PharmaJet Stratis Needle-Free Injection System for persons age 18 through 64 years.

Immunize.org

FOR PROFESSIONALS www.immunize.org / FOR THE PUBLIC www.vaccineinformation.org



Live, Attenuated Influenza Vaccine (LAIV4)*

FluMist® MedImmune (Nasal Spray)

• Licensed for healthy persons 2 through 49 years of age

LAIV4 MAY be used in the 2022-2023 season.

Contraindications to LAIV include:

- Children 2-4 yrs. of age with a diagnosis of asthma
- Persons receiving aspirin-containing medications potential risk for Reye syndrome
- Persons who are immunocompromised, by medication or disease, have a CSF leak or cochlear implant, or asplenia
- Close contacts and caregivers of severely immunosuppressed persons
- Persons who have received influenza antiviral medications within the previous days (dependent on antiviral)
- Persons with a cranial CSF leak; people with cochlear implants
- Persons with a severe allergic reaction to any component of the vaccine or to a previous dose of any influenza vaccine (exception for allergy to egg)
- Pregnancy

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Co-administration

- Inactivated influenza vaccines(IIV4s) may be administered simultaneously or sequentially with other inactivated vaccines or live vaccines. Injectable vaccines that are given concomitantly should be administered at separate anatomic sites.
- LAIV4 can be administered simultaneously with other live or inactivated vaccines. However, if two live vaccines are not given simultaneously, then after administration of one live vaccine (such as LAIV4), at least 4 weeks should pass before another live vaccine is administered
- Guidance concerning administration of COVID-19 vaccines with other vaccines indicates that these vaccines may be given with other vaccines, including influenza vaccines.
- Providers should be aware of the potential for increased reactogenicity with coadministration and should consult the CDC guidance as more information becomes available. (This is more likely with the adjuvanted or high dose IIV4s which are recommended in persons 65 years and older.

Timing of Influenza Vaccination

- Influenza vaccines might be available as early as July or August; however, vaccination during these months is not recommended for most groups because of the possible waning of immunity over the course of the influenza season
- For most persons who need only 1 dose of influenza vaccine for the season, vaccination should ideally be offered during September or October.
- However, vaccination should continue after October and throughout the influenza season as long as influenza viruses are circulating and unexpired vaccine is available.

Making a strong recommendation

- Making a Strong Flu Vaccine Recommendation (SHARE)
- S- SHARE
- H- HIGHLIGHT
- A- ADDRESS
- R- REMIND
- E- EXPLAIN



S-Share

- S- SHARE the reasons why the influenza vaccine is right for the patient given his or her age, health status, lifestyle, occupation, or other risk factors.
 - "This vaccine can protect you and your family from getting sick from flu. By getting the shot today, you'll be protecting yourself and the people around you who are more vulnerable to serious flu illness, like your children and parents."

H- Highlight

- H HIGHLIGHT positive experiences with influenza vaccines (personal or in your practice), as appropriate, to reinforce the benefits and strengthen confidence in flu vaccination.
 - Tell your patients that CDC and *you* recommend they get the influenza vaccine each year.

A-Address

- A ADDRESS patient questions and any concerns about the influenza vaccine, including side effects, safety, and vaccine effectiveness in plain and understandable language.
 - "A flu shot cannot cause flu illness. Flu shots are made either with flu vaccine viruses that have been 'inactivated', making them not infectious or with no flu vaccine viruses at all. The most common side effects of an influenza vaccine are mild, like redness, swelling, or pain in your arm where the shot was given. This should go away within a few days."

R-Remind

- R REMIND patients that influenza vaccines protect them and their loves ones from serious flu illness and flu-related complications.
 - "Flu activity is going to start to pick up, and CDC says to expect more cases in the coming months. That is why I want to make sure I help protect you and your loved ones."



- E EXPLAIN the potential costs of getting the flu, including serious health effects, time lost (such as missing work or family obligations), and financial costs.
 - "It's important to get vaccinated this season because flu vaccination can reduce potential flu illnesses, doctor visits, and missed work and school due to flu."



Diphtheria





Tetanus



Pertussis Whooping Cough

Tdap Vaccines

Boostrix[®] 10 years and older ADACEL[®] 10 through 64 years <u>Tdap may be used for decennial booster or for wound prophylaxis</u>

Both safe for pregnant women

Tdap for Pregnant Women*

ACIP recommends:

One dose of Tdap during <u>each</u> pregnancy, regardless of a prior history of receiving Tdap.

Optimal timing:

- Between 27 and 36 weeks gestation.
- Vaccinating earlier in the 27 through 36 week window will maximize passive antibody transfer to the infant.
- This has been shown to be 80%-91% effective.
- If Tdap is not given during pregnancy, administer Tdap immediately postpartum.

Hospitalizations and deaths in infants <12 months of age, % of total pertussis cases, 2004-2015*



*2015 data are provisional

SOURCE: CDC, National Notifiable Diseases Surveillance System and Supplemental Pertussis Surveillance System

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Making the Referral for Tdap

- Begin each referral with a vaccine recommendation that includes information on why the vaccine is beneficial and safe for mother and baby.
 - Tailor your message with scientific data or personal anecdotes
 - Convey the vaccine's importance to individual patients.
- Always write a patient-specific prescription. This will help your patients obtain the vaccine at another location where a prescription may be required.
- Anticipate questions on why patients cannot get vaccinated in your office.
- Plan to answer questions from other immunization providers who are concerned with vaccinating your pregnant patients. https://www.cdc.gov/pertussis/downloads/fs-hcptdap-vaccine-referral.pdf

Vaccines in Pregnancy

- CDC and ACOG recommend that pregnant women are vaccinated against flu and pertussis in each pregnancy
- If you do not stock them
 - Provide information on where patients can get the vaccine(s) you recommend.
 - Re-emphasize the fact that just because you do not stock a specific vaccine in your office does not mean it is not important, is less important than other vaccines you do stock, or that you have concerns about its safety.
- For help locating vaccines in your area, the HealthMap Vaccine Finder is available at: http://vaccine.healthmap.org

Types of Human Papilloma Virus (HPV)*

(More Than 200 Types Identified)



*Epidemiology and Prevention of Vaccine Preventable Diseases 13th Edition, 2015 *Red Book – AAP 2018 Report of the Committee on Infectious Diseases * MMWR, August 29, 2014, RR Vol. 63, No. 5

HPV Vaccine*

Gardasil 9[®] (9vHPV) <u>HPV types 6, 11, 16, 18, 31, 33, 45, 52, 58</u>

ACIP recommends HPV vaccine starting at age 11 or 12 years for:

- All males and females through 26 years of age
- Catch-up vaccination for persons through age 26 who are not adequately vaccinated

Gardasil 9 is now also licensed for all persons 9 through 45 yrs. of age**

- Use the 3-dose schedule for persons 15-45 years of age
- Based on shared clinical decision making, the series <u>may</u> be given to persons ages 27-45.

*https://www.merck.com/product/usa/pi_circulars/g/gardasil_9/gardasil_9_pi.pdf

ACIP Recommendations and Schedule*

3 Dose Schedule: HPV vaccine initiated <u>after the 15th birthday</u> or certain

immunocompromising conditions should be vaccinated with the 3 dose schedule: 0, 1-2, 6 months

Dose 2 should be given at least 1 to 2 months after first dose (1 month minimum); Dose 3 should be given at least 6 months after the first dose (minimum of 3 months between dose 2 and 3)
ACOG Recommendations*

- Sexually active women and women with previous abnormal cervical cytology or genital warts can receive the HPV vaccine
- These women should be counseled that the vaccine may be less effective in women who have been exposed to HPV before vaccination than in women who were HPV naive at the time of vaccination
- Women with previous HPV infection will benefit from protection against disease caused by the HPV vaccine types with which they have not been infected

Hepatitis B Virus*

- Acute hepatitis B can lead to chronic hepatitis B or rarely to liver failure
- Chronic hepatitis B can lead to:
 - Cirrhosis
 - Hepatic decompensation
 - Hepatocellular carcinoma
 - Extra-hepatic manifestations and death
- Transmission:
 - Percutaneous or mucosal exposure to blood or body fluids of infected person including contaminated surfaces
 - Perinatal infection from HBsAg + mother to fetus

*Lok AS. Clinical manifestations and natural history of hepatitis B virus infection. Post TW (Ed), UpToDate, Waltham, MA. (Accessed on March 6, 2014.)

Hepatitis **B**

Hepatitis B is an infectious liver disease caused by the hepatitis B virus (HBV) that can lead to cirrhosis, liver cancer, and premature death.

Transmission: percutaneous or mucosal exposure to infectious blood or body fluids (e.g., skin puncture, sexual contact, contaminated surfaces)

- Vertical transmission from a HBsAg-positive mother to her newborn at birth
 - Infected infants have a 90% risk of developing chronic infection if not given HepB vaccine and HBIG at birth*

ACIP Recommendations for Hepatitis B Vaccination

- Administer hepatitis B vaccine to <u>all</u> newborns within <u>24 hours</u> of birth;
- Dose 2 at 1-2 months of age and Dose 3 at 6-18 months of age
- Unvaccinated children aged <19 years
- Persons at risk for infection by sexual exposure (e.g., HBV-infected partner, seeking evaluation or treatment for a sexually transmitted infection, men who have sex with men)**
- Persons at risk for infection by percutaneous or mucosal exposure to blood**

• Current or recent injection-drug users** 6/24/22MMWR, December 23, 2005, Vol 54, #RR16, ** MMWR, December 2005, Vol 54, #RR16, ** MMWR, December 23, 2005, Vol 54, #RR16, ** MMWR, December 23, 2005, Vol 54, #RR16, ** MMWR, December 2005, Vol 54, #RR16, ** MMWR, December 23, 2005, Vol 54, #RR16, ** MMWR, December 23, 2005, Vol 54, #RR16, ** MMWR, December 24, Wol 54, Wo

Hepatitis B Vaccine Recommendations (cont'd)*

- 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 patients and pre-dialysis, peritoneal dialysis, and home dialysis patients
- Persons with diabetes aged 19–59 years; persons with diabetes aged ≥60 years at the discretion of the treating clinician
- International travelers to countries with high or intermediate levels of endemic hepatitis B virus (HBV) infection
- Persons with hepatitis C virus infection or chronic liver disease
- Persons with HIV infection
- Incarcerated persons
- All other persons seeking protection from HBV infection

ACIP Vote 11/2021 Hepatitis B

- ACIP unanimously voted to recommend that hepatitis B vaccine <u>should</u> be given to:
 - all adults 19 through 59 years
 - All people aged 60 or older with any risk factor for hepatitis B infection.
- ACIP also voted that any person aged 60 and older with NO known risk factor may be vaccinated.

*MMWR/April 1, 2022/Vol.1/No.13

Procedures to Prevent Perinatal Hepatitis B Virus Transmission at Delivery*

Woman presents for delivery - HBsAg Positive

- Alert Pediatric Primary Care Provider
- Give infant single antigen Hepatitis B vaccine and HBIG within 12 hours of birth

Woman presents for delivery – HBsAg Negative during prenatal care

• If she has risk factors for Hepatitis B – Retest for HBsAg at time of delivery

Woman presents for delivery - HBsAg Unknown

- Obtain HBsAg on mother
- Alert Pediatric Primary Care Provider
- Give infant single antigen Hepatitis B vaccine within 12 hours of birth
- If mother is HBsAg positive give infant HBIG as soon as possible no later than 7 days after birth
- If infant weighs less than 2000 grams give Hep B vaccine and HBIG within 12 hours of birth or as soon as possible thereafter

Post-vaccination serologic testing (PVST)*

ACIP Recommendations re: PVST

- PVST recommended for infants born to HBsAg-positive and HBsAg-unknown mothers
- Testing is recommended at 9-12 months of age (not recommended before 9 mos. of age)
- PVST must include hepatitis B surface antigen (HBsAg) <u>AND</u> hepatitis B surface antibody (anti-HBs) tests



SARS-CoV-2 virus (COVID-19 disease)*

SARS-CoV-2, the virus that causes COVID-19 disease affects the respiratory system primarily, but other organ systems may also be impacted

Transmission is through droplet and respiratory spread but may also include indirect contact with contaminated objects

Access current data on COVID-19 cases and deaths in Georgia** and nationally***

*<u>Georgia data</u>**<u>Georgia data (2)</u> ***National data

COVID-19 disease

Symptoms can be mild to severe and can develop 2-14 days after exposure



COVID-19 vaccination schedule for most people

COVID-19 Vaccination Schedule Infographic for People who are NOT Moderately or Severely Immunocompromised



People ages 18 years and older who previously received Janssen primary series dose[‡]



*For people who previous/precieved a monvalent.booster dose(s), the bivalent.booster dose is administered at less 12 months after the last monvalent.booster dose is administered at less 12 months after the last monvalent.booster dose is administered at less 12 months after the last monvalent.booster dose is administered at less 12 months after the last monvalent.booster dose is administered at less 12 months after the last monvalent.booster dose is administered at less 12 months after the last monvalent.booster dose is administered at less 12 months after completion of a primary series. Jansen COM-19 Vaccine should only be used in certain limited situations is seen track-two-cit.gov/accimet/cod/19/clinic2-considerations/instered at less 14 months in third approximation.booster dose is administered at less 12 months after completion of a primary series.

COVID-19 vaccination schedule for people who are moderately or severely immunocompromised

https://www.cdc.gov/vaccines/covid-19/clinical-considerations/interimconsiderations-us.html#covid-vaccines

COVID-19 Vaccination Schedule Infographic for People who ARE Moderately or Severely Immunocompromised



COVID-19 Vaccination of Pregnant Women or Lactating Women

SOURCE:CDC

SOURCE: ACOG

1/18/2023

- Pregnant and recently pregnant women with COVID-19 are at increased risk for severe illness when compared with non-pregnant women.
- Severe illness includes illness that requires hospitalization, intensive care unit admission, mechanical ventilation, or extracorporeal membrane oxygenation; or illness that results in death.
- Additionally, pregnant women with COVID-19 are at increased risk for preterm birth and might be at increased risk for other adverse pregnancy complications and outcomes, such as preeclampsia, coagulopathy, and stillbirth.

COVID-19 Vaccination of Pregnant Women or Lactating Women

- COVID-19 vaccination is recommended for all people aged 5 years and older, including women who are pregnant, lactating, trying to get pregnant now, or might become pregnant in the future.
- There is no evidence that any of the COVID-19 vaccines affect current or future fertility.

SOURCE:CDC

SOURCE: ACOG

1/18/2023

Key Messages to Promote During Pregnancy about Immunizations*

- Promote protection for the expectant mothers and improves the chances of having a healthy delivery and providing essential protection to babies during the first few months of life.
- The protective antibodies that babies receive from their mothers can be life-saving.
- Talking with the patient directly about the recommended vaccines during pregnancy could promote a positive foundation for the vaccine series recommended for the infant.
- Will help the transition from obstetrical to pediatric care and the acceptance of essential vaccines.

*Call to Action: Improving Vaccination Rates in Pregnant Women: Timely intervention-lasting Benefits. National Foundation for Infectious Diseases, March 2014.

Critical Elements for Immunization Services



Updated Vaccine Storage and Handling Recommendations*

- Use stand-alone refrigerator and stand-alone freezer units. If combined, use only refrigerator part.
- Do not store any vaccine in a dormitory-style or bar-style combined refrigerator/freezer unit.
- Use a bio-safe glycol-encased probe or a similar temperature buffered probe
- Probes should be calibrated every 1-2 yrs. or according to manufacturers' guidelines
- Use digital data loggers.
- Do not store ANYTHING ELSE in refrigerator.
- Review vaccine expiration dates and rotate vaccine stock weekly.







Maintaining Appropriate Vaccine Storage & Handling*

- Assign a primary and alternate vaccine coordinator.
- Store all vaccines as recommended by manufacturer and <u>IN ORIGINAL</u> <u>PACKAGING, WITH THE LID CLOSED</u>.
- Monitor and record temperatures of refrigerator and freezer twice daily.
- Correct ranges: refrigerator 36° F to 46° F; freezer -58° F to +5° F
- Maintain temperature log records for 3 years.
- Take immediate action for all out-of-range temps.
- Implement a vaccine emergency system.
- If it is necessary to transport vaccine, do NOT use dry ice. See Vaccine Storage and Handling Toolkit, Section 6 for Transport System Recommendations.
- For COVID-19 vaccine, see specific vaccine guidelines.

Improper Immunization Administration Practices with <u>Any</u> Vaccine*

DO NOT re-use needles or syringes, due to the possibility of:

- Transmission of blood-borne viruses (HCV, HBV, HIV)
- Referral of providers to licensing boards for disciplinary action
- Malpractice suits filed by patients

Never use partial doses from 2 or more vials to obtain a dose of vaccine.**

Per OSHA and the CDC, you MAY use the same needle to withdraw a diluent, inject this into a lyophilized vaccine vial, and then administer to a patient, providing the needle or syringe has not otherwise been contaminated.**

*CDC, NCEZIZ, DHQP. Injection Safety Information for Providers: www.cdc.gov/injectionsafety/providers.html **http://www.immunize.org/askexperts/administering-vaccines.asp **Vaccine Storage and Handling Toolkit, January, 2020

Vaccine Administration Best practices - Route, Dose, Site, Needle Size

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

Vaccine		Dose	Route	Injection Site and Nee	edle Size	lle Size		
COVID-19 Pfizer-BioNTech • age 5 to <12 yrs: 0.2 mL ped • age ≥12 yrs: 0.3 mL adult/ac primary and booster doses		diatric formulation ("orange cap") Idolescent formulation for	ІМ	Subcutaneous (Subcut) injection Use a 23–25 gauge needle. Choose the injection site that is approp to the person's age and body mass.				
	Moderna; ≥18 yrs: 0.5 mL p Janssen: ≥18 yrs: 0.5 mL for	imary series*; 0.25 mL booster primary & booster doses		AGE	NEEDLE LENGTH	INJECTION SITE		
Diphtheria, 1 (DTaP, DT, T	Tetanus, Pertussis dap, Td)	0.5 mL	ІМ	Infants (1–12 mos)	5/8"	Fatty tissue over anterolat- eral thigh muscle		
Haemophilu	s influenzae type b (Hib)	0.5 mL	IM	Children 12 mos or older		Fatty tissue over anterolat-		
	(1.1	≤18 yrs: 0.5 mL		adolescents, and adults	NEEDLE LENGTH INJECTION SITE 5/8" Fatty tissue over antero eral thigh muscle 5/8" Fatty tissue over antero eral thigh muscle or fatt tissue over triceps tion Fatty tissue over antero eral thigh muscle or fatt tissue over triceps tion NEEDLE LENGTH INJECTION SITE 5/8" Anterolateral thigh muscle son's age and body mass. NEEDLE LENGTH INJECTION SITE 5/8"1 Anterolateral thigh muscle 1-11/4" 5/8-1"1 Deltoid muscle of arm ² 1-11/4"			
Hepatitis A	(нера)	≥19 yrs: 1.0 mL	IM	tissue over tricer				
Hepatitis B Persons 11–15 yrs	(HepB) may be given Recombivax HB	Engerix-B; Recombivax HB ≤19 yrs: 0.5 mL ≥20 yrs: 1.0 mL	IM	Use a 22–25 gauge needle. (that is appropriate to the pe	e needle. Choose the injection site and needle length e to the person's age and body mass.			
(Merck) 1.0 mL adult forn	terck) D mL adult formulation on a 2-dose schedule. ≥18 yrs:			AGE	NEEDLE LENGTH	INJECTION SITE		
Human papi	illomavirus (HPV)	IPV) 0.5 mL IM Newbo		Newborns (1st 28 days)	5/8"1	Anterolateral thigh muscle		
		0.2 ml (0.1 ml in each	Intra-	Infants (1-12 mos)	1"	Anterolateral thigh muscle		
Influenza, liv	e attenuated (LAIV)	nostril)	nasal	1–1¼" Anterolatera		Anterolateral thigh muscle ²		
		Afluria: 0.25 ml	spray	l loddiers (1–2 years)	5⁄8—1"1	Deltoid muscle of arm		
Influenza in			Children	Children	5⁄8—1"1	Deltoid muscle of arm ²		
6–35 month	s	Fluariz Elucebraz Elutaval:	. IM	(3–10 years)	1–1¼"	Anterolateral thigh muscle		
		0.5 mL		Adolescents and teens	5/8—1" ¹	Deltoid muscle of arm ²		
Influenza, in	activated (IIV), ≥3 yrs;	0.5 mL		(11–18 years)	1–11/2"	Anterolateral thigh muscle		
recombinant	t (RIV), ≥18 yrs; HD-IIV) >65 yrs	FluZone HD: 0.7 ml	IM	Adults 19 years or older				
inginalose (i	10 11 1 203 713	i lazone i ib. 0.7 mil						

Measles, Mumps, Rubella (MMR)	0.5 mL	Subcut	
Meningococcal serogroups A, C, W, Y (MenACWY)	0.5 mL		
Meningococcal serogroup B (MenB)	0.5 mL	IM	
Pneumococcal conjugate (PCV)	0.5 mL	IM	
Pneumococcal polysaccharide (PPSV)	0.5 mL		
Polio, inactivated (IPV)	0.5 mL	IM or Subcut	
Determine (DV)	Rotarix: 1.0 mL		
Rotavirus (RV)	Rotateq: 2.0 mL	Orai	
Varicella (VAR)	0.5 mL	Subcu	
Zoster (Zos)	Shingrix: 0.5 [†] mL	IM	
Combination Vaccines			
DTaP-HepB-IPV (Pediarix) DTaP-IPV/Hib (Pentacel) DTaP-IPV (Kinrix; Quadracel) DTaP-IPV-Hib-HepB (Vaxelis)	0.5 mL	IM	
MMRV (ProQuad)	≤12 yrs: 0.5 mL	Subcu	
HepA-HepB (Twinrix)	≥18 yrs: 1.0 mL	IM	
If immunocompromised, Moderna 0.5 mL fo 3-dose primary series, then 0.25 mL for boos dose. The Shingrix vial might contain more than 0.5 mL. Do not administer more than 0.5 mL	r Intranasal (NAS) administration of Flumist (LAIV) vaccine	/	

Female or male <130 lbs	5/8-1"1	Deltoid muscle of arm
Female or male 130–152 lbs 1"		Deltoid muscle of arm
Female 153–200 lbs Male 153–260 lbs	1–11⁄2"	Deltoid muscle of arm
Female 200+ lbs Male 260+ lbs	11⁄2"	Deltoid muscle of arm
Female or male, any weight	11⁄2"	Anterolateral thigh muscle

¹ A ⁵/8" needle may be used in newborns, preterm infants, and patients weighing less than 130 lbs (<60 kg) for IM injection in the deltoid muscle only if the skin stretched tight, the subcutaneous tissue is not bunched, and the injection is made at a 90-degree angle to the skin. ² Preferred site

Int

NOTE: Always refer to the package insert included with each biologic for complete vaccine administration information. CDC's Advisory Committee on Immunization Practices (ACIP) recommendations for the particular vaccine should be reviewed as well. Access the ACIP recommendations at www.immunize.org/acip.

ramuscular (IM)	Subcutaneous (Subcut)
injection	injection
90° angle	45° angle
n	skin
cutaneous tissue	subcutarieous tissue
muscle	muscle

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

How to administer IM and SC vaccine injections

NEEDLE SIZE

How to Administer Intramuscular and Subcutaneous Vaccine Injections Administration by the Intramuscular (IM) Route

INIECTION SITE

PATIENT AGE

Administer these vaccines via IM route

- Diphtheria-tetanus-pertussis (DTaP, Tdap)
- Diphtheria-tetanus (DT, Td)
- = Haemophilus influenzae type b (Hib)
- Hepatitis A (HepA)
- Hepatitis B (HepB)
- Human papillomavirus (HPV)
 Inactivated influenza (IIV)
- Meningococcal serogroups A,C,W, Y (MenACWY)
- Meningococcal serogroup B (MenB)
 Pneumococcal conjugate (PCV13)
 Zoster, recombinant (RZV)

Administer inactivated polio (IPV) and pneumococcal polysaccharide (PPSV23) vaccines either IM or

subcutaneously (Subcut).

Newborn (0-28 days) Anterolateral thigh muscle 5%"* (22-25 gauge) Infant (1-12 mos) 1" (22–25 gauge) Anterolateral thigh muscle Anterolateral thigh muscle 1-11/4" (22-25 gauge) Toddler (1–2 years) Alternate site: Deltoid muscle of arm if 5/8*-1" (22-25 gauge) muscle mass is adequate 5/8*-1" (22-25 gauge) Deltoid muscle (upper arm) Children (3-10 years) Alternate site: Anterolateral thigh 1-11/4" (22-25 gauge) muscle Deltoid muscle (upper arm) 5/8[†]-1" (22-25 gauge) Children and adults Alternate site: Anterolateral thigh (11 years and older) 1-11/2" (22-25 gauge) muscle * A 5/8" needle usually is adequate for neonates (first

28 days of life), preterm infants, and children ages 1 through 18 years if the skin is stretched flat between the thumb and forefinger and the needle is inserted at a 90° angle to the skin.

† A 5%" needle may be used in patients weighing less than 130 lbs (<60 kg) for IM injection in the deltoid muscle only if the skin is stretched flat between the thumb and forefinger and the needle is inserted at a 90° angle to the skin; a 1" needle is sufficient in patients weighing 130–152 lbs (60–70 kg); a 1–1½" needle is recommended in women weighing 153–200 lbs (70–90 kg) and men weighing 153–260 lbs (70–118 kg); a 1½" needle is recommended in women weighing more than 200 lbs (91 kg) or men weighing more than 260 lbs (118 kg).



Needle insertion

Use a needle long enough to reach deep into the muscle.

Insert needle at a 90° angle to the skin with a quick thrust.

(Before administering an injection of vaccine, it is not necessary to aspirate, i.e., to pull back on the syringe plunger after needle insertion.[¶])

Multiple injections given in the same extremity should be separated by a minimum of 1", if possible.

CDC. "General Best Practices Guidelines for Immunization: Best Practices Guidance of the ACIP" at https://www.cdc.gov/vaccines/ hcp/acip-recs/general-recs/downloads/ general-recs.pdf



Intramuscular (IM) injection site for infants and toddlers

Insert needle at a 90° angle into the

anterolateral thigh muscle.

IM injection site

(shaded area)

Intramuscular (IM) injection site for children and adults



Give in the central and thickest portion of the deltoid muscle – above the level of the armpit and approximately 2–3 fingerbreadths (~2") below the acromion process. See the diagram. To avoid causing an injury, do not inject too high (near the acromion process) or too low.

CONTINUED ON THE NEXT PAGE

https://www.immunize.org/catg.d/p2020.pdf

6/24/22

Training Tools: Skills Checklist for Vaccine Administration

Skills Checklist for Vaccine Administration

During the COVID-19 pandemic, the CDC recommends additional infection control measures for vaccination (see www.cdc.gov/vaccines/pandemic-

The Skills Checklist is a self-assessment tool for healthcare staff who administer vaccines to several patients, and score in the Supervisor administer immunizations. To complete it, review the competency areas below and the clinical skills, techniques and procedures outlined for each area. Score yourself in the Self-Assessment column. If you check Needs to Improve, you indicate further study, practice, others, or change is needed. When you check Meets or Exceeds, you indicate

or higher. Supervisors: Use the Skills Checklist to clarify responsibilities and correctly. (View at www.youtube.com/watch?v=WsZ6NEiilfl or order expectations for staff who administer vaccines. When you use it to online at www.immunize.org/dvd.) Another helpful resource is assist with performance reviews, give staff the opportunity to score CDC's Vaccine Administration eLearn course, available at www.cdc. themselves in advance. Next, observe their performance as they

Review columns. If improvement is needed, meet with them to develop a Plan of Action (see bottom of page 3) to help them achieve the level of competence you expect: circle desired actions or write in you believe you are performing at the expected level of competence, The video "Immunization Techniques: Best Practices with Infants,

> D Adminis Immuni

Children, and Adults" helps ensure that staff administer vaccines gov/vaccines/hcp/admin/resource-library.html.

		Self-Ass	essment	Supervisor Revie		
COMPETENCY	CLINICAL SKILLS, TECHNIQUES, AND PROCEDURES	NEEDS TO IMPROVE	MEETS OR EXCEEDS	NEEDS TO IMPROVE	MEETS OR EXCEEDS	PLA
A	1. Welcomes patient/family and establishes rapport.					
Patient/Parent	t 2. Explains what vaccines will be given and which type(s) of injection(s) will be done.					
Lucation	 Answers questions and accommodates language or literacy barriers and special needs of patient/parents to help make them feel comfortable and informed about the procedure. 					
	 Verifies patient/parents received Vaccine Information Statements (VISs) for indicated vaccines and has had time to read them and ask questions. 					
	5. Screens for contraindications (if within employee's scope of work).			Skills Che	ls Checklist for Vaccine Ad	
	 Reviews comfort measures and aftercare instructions with patient/parents, and invites questions. 					
B Medical and	1. Identifies the location of the medical protocols (e.g., immunization protocol, emergency protocol, reporting adverse events to the Vaccine nd Adverse Event Reporting system VAESIX reference material). COMP		PETENCY			
Office Protocols 2. Identifies	 Identifies the location of epinephrine, its administration technique, and clinical situations where its use would be indicated. 			G		1. Pe
	A Maintains up-to-date CPR certification. Understands the need to report any needlestick injury and to maintain a sharps injury log.		Vaccin	e	2. W	
				- Preparation		3. Ch to
	 Demonstrates knowledge of proper vaccine handling (e.g., maintains and monitors vaccine at recommended temperature and protects from light). 					4. Pr is

CONTINUED ON THE NEXT PAGE

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NON	100
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Supervis	or Review							
AEETS OR	PLAN OF ACTION							
								7
						F	lecords Procedures	-
list for Vacc	ine Administration (continu	ied)						-
			Self-Ass	essment				-
TENCY	CLINICAL SKILLS	, TECHNIQUES, AND PROCEDURES	NEEDS TO IMPROVE	MEETS OR EXCEEDS	NEEDS T	F	lan of Action	
	1. Performs proper hand h	nygiene prior to preparing vaccine.				C	ircle desired next	
ion	When removing vaccine storage unit's temperat	e from the refrigerator or freezer, looks at the ure to make sure it is in proper range.				s	teps and write in the greed deadline for	
	 Checks vial expiration d to drawing up. 	ate. Double-checks vial label and contents prior				c a	ompletion, as well as ate for the follow-up	
	 Prepares and draws up is not adjacent to areas 	vaccines in a designated clean medication area that where potentially contaminated items are placed.				P	erformance review.	
	 Selects the correct need and/or weight, site, and 	lle size for IM and Subcut based on patient age d recommended injection technique.						
	 Maintains aseptic techn septum (stopper) of the 	ique throughout, including cleaning the rubber e vial with alcohol prior to piercing it.						
	 Prepares vaccine accord draws up correct dose o 	ing to manufacturer instructions. Inverts vial and f vaccine. Rechecks vial label.						
	 Prepares a new sterile s the expiration date on t 	yringe and sterile needle for each injection. Checks he equipment (syringes and needles) if present.				м	UNIZATION ACTIO	N
	9. Labels each filled syring	e or uses labeled tray to keep them identified.				1	1	
	 Verifies identity of patie against the vial and the 	nt. Rechecks the provider's order or instructions prepared syringes.						
zations	 Utilizes proper hand hyg on disposable gloves. (tiene with every patient and, if it is office policy, puts If using gloves, changes gloves for every patient.)						
	3. Demonstrates knowled	ge of the appropriate route for each vaccine.						
	4. Positions patient and/o	or restrains the child with parent's help.						
	 Correctly identifies the tissue over triceps). 	njection site (e.g., deltoid, vastus lateralis, fatty						
	6. Locates anatomic landr	narks specific for IM or Subcut injections.						
	Preps the site with an a center to a 2" to 3" circl	Icohol wipe, using a circular motion from the le. Allows alcohol to dry.						

Skills Checklist for Vac	cine Administration (continued)					page 3 of
		Self-Ass	essment		Supervis	or Review
COMPETENCY CLINICAL SKILLS, TECHNIQUES, AND PROCEDURES		NEEDS TO IMPROVE	MEETS OR EXCEEDS	NEEDS TO IMPROVE	MEETS OR EXCEEDS	PLAN OF ACTION
D Administering	 Controls the limb with the non-dominant hand; holds the needle an inch from the skin and inserts it quickly at the appropriate angle (90° for IM or 45° for Subcut). 					
Immunizations	9. Injects vaccine using steady pressure; withdraws needle at angle of insertion.					
(continued)	10. Applies gentle pressure to injection site for several seconds (using, e.g., gauze pad, bandaid).					
	11. Uses strategies to reduce anxiety and pain associated with injections.					
	12. Properly disposes of needle and syringe in "sharps" container.					
	13. Properly disposes of vaccine vials.					
•	 Fully documents each vaccination in patient chart: date, lot number, manufacturer, site, VIS date, name/initials. 					
Records Procedures	 If applicable, demonstrates ability to use state/local immunization registry or computer to call up patient record, assess what is due today, and update computerized immunization history. 					
	3. Asks for and updates patient's vaccination record and reminds them to bring it to each visit.					

a. Watch video on immunization techniques and resource-library.html. b. Review office protocols. c. Review manuals, textbooks, wall charts, or for Healthcare Professionals at www.immunize.org/catg.d/p2005.pdf) d. Review package inserts. e. Review vaccine storage and handling guide lines or video. f. Observe other staff with patients.

g. Practice injections review CDC's Vaccine Administration eLearn, h. Read Vaccine Information Statements. available at www.cdc.gov/vaccines/hcp/admin/ i. Be mentored by someone who has demonstrated appropriate immunization skills. j. Role play (with other staff) interactions with parents and patients, including age appropri other guides (e.g., Key Vaccination Resources comfort measures. k. Attend a skills training or other appropriate courses/training I. Attend healthcare customer satisfaction or cultural competency training. m. Renew CPR certification.

File the Skills Checklist in the employee's personnel folder

	5	
ated		
ate	PLAN OF ACTION DEADLINE	
	DATE OF NEXT PERFORMANCE REVIEW	
	EMPLOYEE SIGNATURE	DAT
	SUPERVISOR SIGNATURE	DAT

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Other

https://www.immunize.or g/catg.d/p7010.pdf

Always Document...

Accept only written documentation of prior immunizations Provide VIS prior to administration of vaccine

After administering a vaccine, document:

- Publication date of VIS & Date VIS given \bullet
- Date, site, route, antigen(s), manufacturer, lot # ullet
- Person administering vaccine, practice name and address \bullet

VACCINE INFORM	MATION STATEMENT			
Influenza (Flu) Vaccine (Inactivated or Recombinant): <i>What you need to know</i>	May the high region to the maps of the second secon			
1 Why get vaccinated?				
Influenza ("flu") is a contagious disease that spreads around the United States every year, usually between October and May. Flu is caused by influenza viruses, and is spread mainly by coughing, sneezing, and close contact.	There are many flu viruses, and they are always changing. Each year a new flu vaccine is made to protect against three or four viruses that are likely to cause disease in the upcoming flu season. But even when the vaccine doem't exactly match these viruses, it may still provide some protection.			
Anyone can get flu. Flu strikes suddenly and can last several days. Symptoms vary by age, but can include: • fever/chils • sore throat • muccle aches	Flu vaccine cannot prevent: • flu that is caused by a virus not covered by the vaccine, or • illnesses that look like flu but are not.			
fatigue cough keedeelee	It takes about 2 weeks for protection to develop after vaccination, and protection lasts through the flu season.			



Hepatitis B Vaco What You Need to Know	Ner: Ne: Ne: Ne: Many Vaccies Information Statements a sealable in Spanich and other language See www.immunit.ec.org/sic See wave.immunit.ec.org/sic dispon.k. Video www.immunit.ec.org/sic dispon.k. Video www.immunit.ec.org/sic		
1 Why get vaccinated?	2 Hepatitis B vaccine		
 Hepatitis B vaccine can prevent hepatitis B. Hepatitis B is a liver disease that can cause mildilloses lating a few weeks, or it can lead to a serious, lifelong illness. Acute hepatitis B infection is a short-term illness that can lead to prevent that can lead to prevent that can lead to prevent that can lead to serious. 			
nausea, vomiting, jaundice (yellow skin or eyes dark urine, clay-colored bowel movements), ar pain in the muscles, joints, and stomach.	Children and adolescents younger than 19 years age who have not yet gotten the vaccine should als be vaccinated.		
Chronic hepatitis B infection is a long-term illness that occurs when the hepatitis B virus	Hepatitis B vaccine is also recommended for certa		

ny Vaccine Information Statements are allable in Spanish and other languages. e www.immunize.org/vis
jas de información sobre vacunas están ponibles en español y en muchos otros

accine

lly given as 2, 3, or 4 shot st dose of hepatitis B ually complete the series mes it will take longer the series)

Henatitis B vaccine is also recommended for certain unvaccinated adults

VACCINE INFORMATION STATEMENT	
(Tetanus-Dipl Tetanus-Diphther What You Need to Know	htheria or ria-Pertussis) Vaccine May thete Identific Tomme and it is figured of the target. The reve tension optim Name Is for each target the target target the target target the target targ
Why get vaccinated? Trans. (ghtheria and perturbic can be very seriou disease. TEANUS (Lookjaw) causes painful mutchers TEANUS (Lookjaw) causes painful mutchers TEANUS (Lookjaw) causes painful mutchers TEANUS (Lookjaw) causes a series TEANUS	 Children and schorearts who did and get a complete series of DTAP when by age 7 should complete the series using a combination of 14 and Tdep. Age 19 years and Older All shish should get is bootnar does of Td every 10 years. All shish should get is bootnar does of Td every 10 years. All shish should get is bootnar does of Td every 10 years. All shish should get is bootnar does of the series was and does not bootnar does of Tdep. Althe (achding womes who may bootnas pregnant and adults of and older) who expect to have close contact with a baby young when the holy from events. Hashlices prefersionals who have direct paicet contact is Hashlices prefersionals who have direct paicet contact is





A 'Birth to Death' Immunization Registry

- Providers administering vaccines in Georgia must provide appropriate information to GRITS.
- GRITS personnel can work with your EHR/EMR vendor to create an interface between your system and GRITS.
- Use GRITS to generate reminders on medical records and/or notify patients when vaccines are needed.
- Assess your immunization rates using GRITS to improve patient care, HEDIS scores, and identify problem areas.

Call the GRITS Training Coordinator (404) 463-0807 or e-mail : https://dph.georgia.gov/georgia-immunization-registry-grits

Monitoring Vaccine Safety



Do Your Part for Vaccine Safety —

Report to

• VAERS—Vaccine Adverse Event Reporting System

Option 1 - Report Online to VAERS (Preferred)

Submit a VAERS report online. The report must be completed online and submitted in one sitting and cannot be saved and returned to at a later time. Your information will be erased if you are inactive for 20 minutes; you will receive a warning after 15 minutes.

Option 2 - Report using a Writable PDF Form

Download the Writable PDF Form to a computer. Complete the VAERS report offline if you do not have time to complete it all at once. Return to this page to upload the completed Writable PDF form by clicking here. If you need further assistance with reporting to VAERS, please email info@VAERS.org or call 1-800-822-7967.

- FDA and Vaccine Data Link Safety Project
- VERP: <u>VACCINE ERROR REPORTING SYSTEM</u>
 - On line reporting at http://verp.ismp.org/
 - Report even if no adverse events associated with incident
 - Will help identify sources of errors to help develop prevention strategies

Setting Up Your Office For Immunization Services

Operational & Financial



Setting Up Your Office for Immunization Services

• Planning

Purchasing supplies

Storing vaccines

Administering vaccines

Setting Up Your Office for Immunization Service

Planning

- Conduct an Immunization Financial Analysis (Resource Kit)
- Obtain staff support
- Identify a vaccine coordinator
- Make a list of vaccines to be offered
- Obtain vaccination forms and reference materials
- Create standing orders
- Plan workflow and workspace
- Conduct staff training
- Inform patients about availability of vaccines (posters, fact sheets)
- Identify community resources

Consider these vaccines

- Annual influenza vaccine for all patients (consider immunizing other family members)
- Tdap for pregnant women or anyone planning to have a child (consider household members)
- HPV vaccine for women through age 45 years
- Hepatitis B vaccine for women at risk
- COVID-19 vaccine for all patients (consider immunizing other family members)

Additional Steps

- Revise assessment forms to include an immunization record.
- Estimate the percent of individuals you are likely to immunize.
- Estimate the total number of doses of vaccine required (Remember that some vaccines have a series of shots).

Setting Up Your Office for Immunization Service

Purchasing

- Set up vaccine purchasing spreadsheet showing prices, terms, discounts, rebates, etc. (see resource kit)
- Purchase:
 - Storage equipment and certified thermometers
 - Administration supplies
 - Emergency response supplies
 - Vaccines (Most vaccines can be ordered on line and arrive at the practice within 5 days)

Immunizations as a Profit Center?

- Choose the vaccines you will provide to your patients
- Determine the top third party payers for your practice
- Calculate average reimbursement for each vaccine
- Calculate average reimbursement for administration fees
- Calculate the net revenue using the weighted average

Code Immunizations Properly!

Keep up with changes
Code for vaccine administration
Code for diagnosis

Recommended Healthcare Personnel Vaccinations

- Hepatitis B (exposure risk) check immunity
- Influenza (annual)
- Measles, Mumps, Rubella (MMR)
- Varicella (Chickenpox)
- Tetanus, Diphtheria, Pertussis (Tdap)
- Meningococcal (recommended for microbiologists who are routinely exposed to isolates of N. meningitidis).
- COVID-19 vaccine

6/24/22 Are YOU up to date?

Healthcare Personnel Vaccination Recommendations¹

measles and mumps vaccines given on or after

the first birthday and separated by 28 days or

vaccine). HCP with 2 documented doses of MMR are not recommended to be serologically

tested for immunity; but if they are tested and

results are negative or equivocal for measles,

mumps, and/or rubella, these HCP should be

considered to have presumptive evidence of immunity to measles, mumps, and/or rubella

and are not in need of additional MMR doses.

Although birth before 1957 generally is con-

vaccine should be considered for unvacci-

nated HCP born before 1957 who do not have

laboratory evidence of disease or immunity to

measles and/or mumps. One dose of MMR vaccine should be considered for HCP with no

laboratory evidence of disease or immunity

to rubella. For these same HCP who do not

have evidence of immunity, 2 doses of MMR

of measles or mumps and 1 dose during an

It is recommended that all HCP be immune to

varicella. Evidence of immunity in HCP includes

Tetanus/Diphtheria/Pertussis (Td/Tdap)

All HCPs who have not or are unsure if they have

receive a dose of Tdap as soon as feasible, with-

out regard to the interval since the previous dose

of Td. Pregnant HCP should be revaccinated

during each pregnancy. All HCPs should then

receive Td or Tdap boosters every 10 years

Vaccination with MenACWY and MenB is

but at different anatomic sites, if feasible,

Practices (ACIP), MMWR, 2011; 60(RR-7),

recommended for microbiologists who are

routinely exposed to isolates of N. meningitidis

The two vaccines may be given concomitantly

1 CDC. Immunization of Health-Care Personnel: Recom-

mendations of the Advisory Committee on Immunization

2 CDC. Prevention of Hepatitis B Virus Infection in the Unit

ed States, Recommendations of the Advisory Committee

previously received a dose of Tdap should

outbreak of rubella.

Varicella

provider

thereafter.

REFERENCES

Meningococcal

vaccine are recommended during an outbreak

sidered acceptable evidence of measles. mumps, and rubella immunity, 2 doses of MMR

more, and at least 1 dose of live rubella

VACCINES AND RECOMMENDATIONS IN BRIEF

- Hepatitis B If previously unvaccinated, give a 2-dose (Heplisav-B) or 3-dose (Engerix-B or Recombivax HB) series. Give intramuscularly (IM). For HCP who perform tasks that may involve exposure to blood or body fluids, obtain anti-HBs serologic testing 1-2 months after dose #2 (for Heplisav-B) or dose #3 (for Engerix-B or Recombivax HB).
- Influenza Give 1 dose of influenza vaccine annually. Inactivated injectable vaccine is given IM. Live attenuated influenza vaccine (LAIV) is given intranasally.
- MMR For healthcare personnel (HCP) born in 1957 or later without serologic evidence of immunity or prior vaccination, give 2 doses of MMR, 4 weeks apart. For HCP born prior to 1957, see below. Give subcutaneously (Subcut).
- Varicella (chickenpox) For HCP who have no serologic proof of immunity, prior vaccination, or diagnosis or verification of a history of varicella or herpes zoster (shingles) by a healthcare provider, give 2 doses of varicella vaccine, 4 weeks apart. Give Subcut
- Tetanus, diphtheria, pertussis Give 1 dose of Tdap as soon as feasible to all HCP who have not received Tdap previously and to pregnant HCP with each pregnancy (see below). Give Td or Tdap boosters every 10 years thereafter. Give IM.
- Meningococcal Give both MenACWY and MenB to microbiologists who are routinely exposed to isolates of Neisseria meningitidis. As long as risk continues: boost with MenB after 1 year, then every 2-3 years thereafter; boost with MenACWY every 5 years, Give MenACWY and MenB IM.

Hepatitis A, typhoid, and polio vaccines are not routinely recommended for HCP who may have on-the-job exposure to fecal material

Hepatitis B

Unvaccinated healthcare personnel (HCP) and/ or those who cannot document previous vaccination should receive either a 2-dose series of Heplisav-B at 0 and 1 month or a 3-dose series of either Engerix-B or Recombivax HB at 0, 1, and 6 months. HCP who perform tasks that may involve exposure to blood or body fluids should be tested for hepatitis B surface antibody (anti-HBs) 1-2 months after dose #2 of Heplisav-B or dose #3 of Engerix-B or Recombivax HB to document immunity.

 If anti-HBs is at least 10 mIU/mL (positive), the vaccinee is immune. No further serologic testing or vaccination is recommended.

the vaccinee is not protected from hepatitis B virus (HBV) infection, and should receive another 2-dose or 3-dose series of HepB vaccine on the routine schedule, followed by anti-HBs testing 1-2 months later. A vaccinee whose anti-HBs remains less than 10 mIU/ mL after 2 complete series is considered a "non-responder."

For non-responders: HCP who are non-responders should be considered susceptible to HBV and should be counseled regarding precautions to prevent HBV infection and the need to obtain HBIG prophylaxis for any known or probable parenteral exposure to hepatitis B surface antigen (HBsAg)-positive blood or blood with unknown HBsAg status. It is also possible that nonresponders are people who are HBsAg positive. HBsAg testing is recommended. HCP found

to be HBsAg positive should be counseled and medically evaluated. For HCP with documentation of a complete

combivax HB) vaccine series but no documentation of anti-HBs of at least 10 mIU/mL (e.g.,

should receive annual vaccination against influenza. Live attenuated influenza vaccine (LAIV) may be given only to non-pregnant healthy HCP age 49 years and younger. Inactivated injectable influenza vaccine (IIV) is preferred over LAIV for HCP who are in close contact with severely immunosuppressed patients (e.g., stem cell transplant recipients) when they require protective isolation.

> Measles, Mumps, Rubella (MMR) HCP who work in medical facilities should be

on Immunization Practices. MMWR, 2018; 67(RR1):1-30 immune to measles, mumps, and rubella. 3 IAC. Pre-exposure Management for Healthcare Personnel with a Documented Hepatitis B Vaccine Series Who Have HCP born in 1957 or later can be considered Not Had Post-vaccination Serologic Testing, Accessed at immune to measles, mumps, or rubella only www.immunize.org/catg.d/p2108.pdf. if they have documentation of (a) laboratory For additional specific ACIP recommendations, visit CDC's confirmation of disease or immunity or website at www.cdc.gov/vaccines/hcp/acip-recs/vacc-(b) appropriate vaccination against measles, specific/index.html or visit IAC's website at

www.immunize.org/acip

mumps, and rubella (i.e., 2 doses of live IMMUNIZATION ACTION COALITION Saint Paul, Minnesota • 651-647-9009 • www.immunize.org • www.vaccineinformation.org www.immunize.org/catg.d/p2017.pdf • Item #P2017 (2/21)

documentation of 2 doses of varicella vaccine given at least 28 days apart, laboratory evidence of immunity, laboratory confirmation of disease. or diagnosis or verification of a history of varicella or herpes zoster (shingles) by a healthcare

2-dose (Heplisav-B) or 3-dose (Engerix-B or Rethose vaccinated in childhood): HCP who are at risk for occupational blood or body fluid exposure might undergo anti-HBs testing upon hire or matriculation. See references 2 and 3 for details.

Influenza

All HCP, including physicians, nurses, paramedics, emergency medical technicians, employees of nursing homes and chronic care facilities, students in these professions, and volunteers, If anti-HBs is less than 10 mIU/mL (negative),

Available at www.immunize.org, P#2017 75

Stay Current!



- Sign up for listserv sites which provide timely information pertinent to your practice www.immunize.org/resources/emailnews.asp
 - CDC immunization websites (32 in all)
 - CHOP Parents Pack Newsletter
 - IAC Express, Needle Tips and Vaccinate Adults
 - Websites specific to particular vaccines



YOU ARE ALL PART OF THE TEAM THAT CAN MAKE SURE YOUR PATIENTS RECEIVE THE

IMMUNIZATIONS THEY NEED!

Online Resources*

Current Childhood and Adult Immunization Schedules – www.cdc.gov/vaccines/schedules/index.html

Parent's Guide to Childhood Immunizations – www.cdc.gov/vaccines/parents/tools/parents-guide/index.html

Order Information for Free CDC Immunization Materials for Providers and Patients – wwwn.cdc.gov/pubs/CDCInfoOnDemand.aspx

Vaccine Labels to Organize a Storage Unit – www.cdc.gov/vaccines/hcp/admin/storage/guide/vaccine-storagelabels.pdf

^{6/24/22} *Course Resource—Epidemiology & Prevention of Vaccine-Preventable Diseases—C296544-E
Vaccine Information Statements (VISs) – www.cdc.gov/vaccines/hcp/vis/current-vis.html

Refusal to Vaccinate Form -

6/24/22

https://www.aap.org/enus/documents/immunization_refusaltovaccinate.pdf

Standing Orders (Explanation and Templates) – www.immunize.org/standing-orders/

Ask the Experts – www.immunize.org/askexperts/

General Best Practice Guidelines for Immunization – https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html

*Course Resource—Epidemiology & Prevention of Vaccine-Preventable Diseases—C296544-E

Questions?

Contacts for more immunization information and resources!

National Center for Immunization and Respiratory Diseases, CDC

E-mail	NIPInfo@cdc.gov		
Hotline	800.CDC.INFO		
Website	http://www.cdc.gov/vaccines		

Georgia Immunization Program

E-mail	DPH-Immunization@dph.ga.gov
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- Hotline 404-657-3158
- Website http://dph.georgia.gov/immunization-section

Immunization Action Coalition

E-mail	admin@immunize.org		
Phone	651.647.9009		
Website	www.immunize.org		

Thank You!!

Additional EPIC Training Opportunity Breastfeeding Education





6/24/22

Questions?

AAP Resources for Providers and Parents (Vaccine Campaign Toolkit)



V

Being around adults wearing babies' speech or language **Real Talk**

Social Media Graphics



This is Their Shot!

Select Language Select Platform







Kids & the COVID Vaccines: W Kamau **Bell Talks to Pediatricians** kids?

VEHAD

ACCINA

Pause (k)

▶ ● 0:15 / 0:29

Which COVID vaccines are available for

[Announcer] Get your

THE CONVERSATION

Pediatricians answer questions about the COVID-19 vaccines for children.

ABOUT THE COVID VACCINES & KIDS Presented with the American Academy of Pediatrics

children vaccinated.

How were the COVID vaccines studied in kids?

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Changing the Covid Conversation

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LAN TO I	GUAGE THAT W MPROVE VACC Commu	ORKS INE ACCEI nications (PTANCE Cheat Sheet
	TIPS	Use These U Words MORE: W	se These lords LESS:
8.8	TAILOR YOUR MESSAGE FOR	The benefits of taking it	The consequences of not taking it
atta	perceptions about vaccines and their safety differ by political party	Getting the vaccine will keep you safe	Getting the vaccine is the right thing to do
	race, age, and geography.	A return to normal	Predictability/ certainty
and and a	GETTING VACCINATED, NOT JUST	Your family	Your community
	DOING IT. Say, "Getting the vaccine will keep you and your family safe,"	Medical experts	Scientists/health experts
	rather than calling it "the right thing to do." Focus on the need to return to pormal and reopen the economy	Research	Discover/create/ invent
	TALK ABOUT THE PEOPLE	Medical researchers	Drug companies
(A)	BEHIND THE VACCINE. Refer to the scientists, the health and medical	Damage from lockdowns	Inability to travel easily and safely
-	– not the science, health, and pharmaceutical companies.	A transparent, rigorous process	The dollars spent; number of participants
	AVOID JUDGMENTAL LANGUAGE WHEN TALKING ABOUT OR TO	Safety	Security
्रस्र द्र	PEOPLE WHO ARE CONCERNED. Acknowledge their concern or skepticism	Pharmaceutical companies	Drug companies
<u></u>	USE (AND REPEAT) THE WORD "EVERY" TO EXPLAIN THE VACCINE	Advanced/ groundbreaking	Historic
ഷ്	DEVELOPMENT PROCESS. For example: "Every study, every phase, and every trial was reviewed by the FDA and a safety board."	Vaccination	Injection/ inoculation
		America's leading experts	The world's leading experts
S APHA ANDER A RELEASING Restore the select Ser Mail Restore the select Ser Mail	National Collaborative for Health Equity TO SAVE LIVES	Skeptical/concerned about the vaccine	Misled/confused about the vaccine
	www.changir	ngthecovidconversation.org	5

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CHANGING THE COVID CONVERSATION Communications Cheat Sheet

Effective communication is always important in public health, but it's never been more important to understand the perceptions of Americans and modify your language accordingly. These recommendations are based on the "Changing the COVID Conversation" poll, conducted by Frank Luntz in partnership with the de Beaumont Foundation, Nov. 21-22, 2020. Learn more at debeaumont.org/changing-the-covid-conversation.

TIPS	Use These Words MORE:	Use These Words LESS:
	the pandemic	the coronavirus
COUSE ON THE BENEFITS OF SUCCESS, NOT JUST THE CONSEQUENCES OF FAILURE. We understand that people are tired, but public health measures are not the enemy — they are the roadmap for a faster and more sustainable recovery. Scientists and medical professionals are developing and preparing to distribute a safe and effective vaccine that will help us return to normal dayt-od-ay activities.	eliminate/ eradicate/ get rid of the virus social distancing an effective and safe vaccine	defeat/crush/ knock out the virus physical distancin a vaccine developed quickly
• The science is clear. There is no doubt that mask wear- ing, hand washing, and social distancing reduce the spread of COVID-19 and saves lives.	protocols face masks essential	orders/ imperatives/ decrees facial coverings frontline
DONT EXPECT PEOPLE TO TAKE PUBLIC HEALTH MEASURES BECAUSE IT'S GOOD FOR THEM. SPEAK TO THE CONSEQUENCES OF NOT TAKING THESE MEASURES. • Because COVID-19 is highly infectious, one infection can quickly grow into an outbreak that could shutter a neighborhood, community, or entire city.	workers personal responsibility a stay-at- home order public	workers national duty a government lockdown/ shutdown government
DON'T LET POLITICS OR PARTISANSHIP SLIP INTO YOUR MESSAGING, BECAUSE THAT WILL HARM YOUR CREDIBILITY, KEEP YOUR LANGUAGE NEUTRAL AND REPEAT- EDLY EMPHASIZE "EVERY" AND "ALL."	health agencies policies that are based on facts/ science/data	Fealth agencies policies that are sensible/ impactful/ reasonable

Sample Language

(FiD)

SHORT: We all have a responsibility to slow the spread of COVID-19. It is imperative that we protect each other by doing things like wearing masks and practicing social distancing so we can return to a strong economy and normal day-to-day activities.

LONGER: We all want a return to normal, and we all want the economy and our schools to open. And we also want to protect our family and friends from the pandemic.

Our finest medical researchers are clear: If we fail, there will be even worse consequences for our families and our economy

We all have a personal responsibility to slow the spread of the pandemic and eliminate the virus as quickly as possible.

Therefore, it's imperative that we take an effective, fact-based approach ... by doing things like wearing face masks and practicing social distancing.

Let's do what needs to be done now so we can return to a strong economy and normal day-to-day activities.

de Beaumont

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2022 Recommended Immunization Schedule for Adults Aged ≥19 Years*

- Recommended adult schedule by age group
- Recommended immunization schedule for adults aged 19 years or older by medical condition and other indications

Changes

- Clarification of the charts
- Additional information in the Notes section

READ THE FOOTNOTES TO ACCESS SPECIFIC VACCINE ADMINISTRATION DETAILS!

Vaccine	19–26 years	27-49 years		50-64 years	≥65 years
COVID-19	2- or 3- dose primary series and booster (See Notes)				
Influenza inactivated (IIV4) or Influenza recombinant (RIV4)	1 dose annually				
Influenza live, attenuated (LAIV4)	1 dose annualiy				
Tetanus, diphtheria, pertussis	1 dose Tdap each pregnancy; 1 dose Td/Tdap for wound management (see notes)				
(Tdap or Td)		1 dose Tdap, then	Td or Tdap	booster every 10 years	
Measles, mumps, rubella (MMR)	1 or 2 doses depending on indication (if born in 1957 or later)			For healthcare personnel, see notes	
Varicella (VAR)	2 doses (if born in 1980 or later) 2 dos		2 doses		
Zoster recombinant (RZV)	2 doses for immunocompromising conditions (see notes) 2 do		ses		
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years			
Pneumococcal		1 dose PCV15 followed by PPSV23 OR 1 dose PCV20 (see notes)		PSV23	See Notes
(PCV15, PCV20, PPSV23)				See Notes	
Hepatitis A (HepA)	2, 3, or 4 doses depending on vaccine				
Hepatitis B (HepB)	2, 3, or 4 doses depending on vaccine or condition				
Meningococcal A, C, W, Y (MenACWY)	1 or 2 doses depending on indication, see notes for booster recommendations				
Meningococcal B (MenB)	2 or 3 doses depending on vaccine and indication, see notes for booster recommendations 19 through 23 years				
					Haemophilus influenzae type b (Hib)

