Vaccine Basics & Understanding the ACIP Schedule

Training on Immunization Practice Strategies (T.I.P.S)

June 24, 2021

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whyimmunize.org

HERD IMMUNITY OR ·. COMMUNITY IMMUNITY

A situation in which a sufficient proportion of a population is immune to an infectious disease (through vaccination and/or prior illness) to make its spread from person to person unlikely. Even individuals not vaccinated (such as newborns and those with chronic illnesses) are offered some protection because the disease has little opportunity to spread within the community.

- CDC Vaccine Glossary

Herd Immunity Thresholds of vaccine-preventable diseases⁶

Disease	Transmission	Basic reproduction number	Herd Immunity Threshold	
Measles	Airborne	12-18	92-95%	
Pertussis	Airborne droplet 12–17		92-94%	
Diphtheria	Saliva	6-7	83-86%	
Rubella	Airborne droplet	6-7	83-86%	
Smallpox	Airborne droplet	5-7	80-86%	
Polio	Fecal-oral route	5-7	80-86%	
Mumps	Airborne droplet	4-7	75-86%	
SARS	Airborne droplet	2-5	50-80%	
Ebola	Bodily fluids	1.5-2.5	33-60%	
Influenza	Airborne droplet	1.5-1.8	33-44%	





SUMMARY

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- We have room to improve in Arizona
- ALL populations are equally important to immunize!

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are the protectors of our community's immunity.

vaccine

diseases

- Measles (Rubeola)
- German Measles (Rubella)
- Whooping cough (Pertussis)
- Diphtheria
- Tetanus
- Hepatitis A
- Shingles (Zoster)
- Human papillomavirus (HPV)

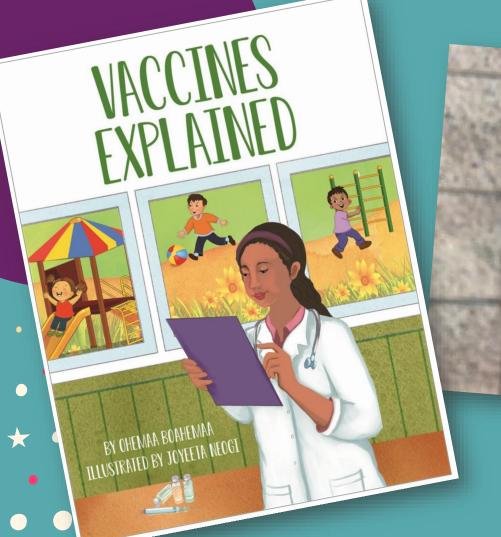
• Hepatitis B

- Haemophilus influenza type B (Hib)
- Pneumoccocal
- Rotavirus
- Chickenpox (Varicella)
- Influenza (Flu)
- COVID-19
- Polio
- Mumps

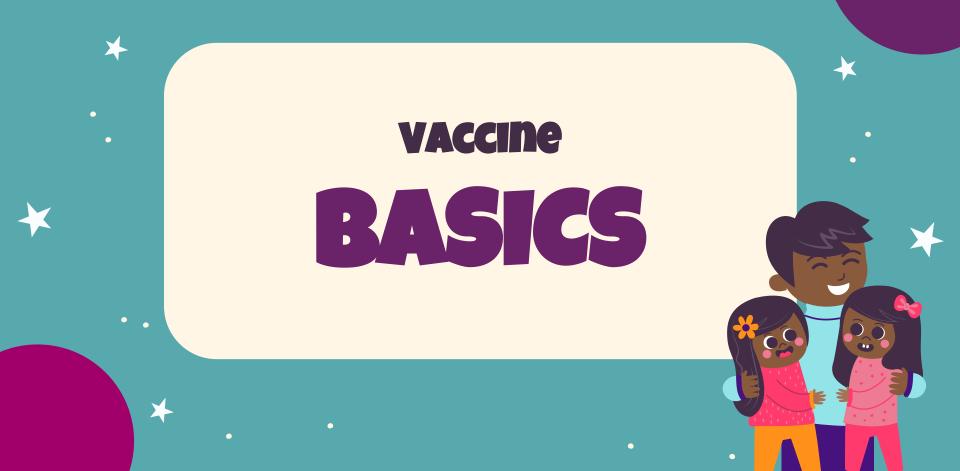








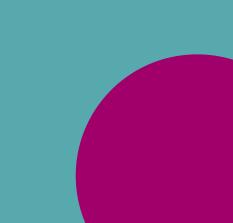






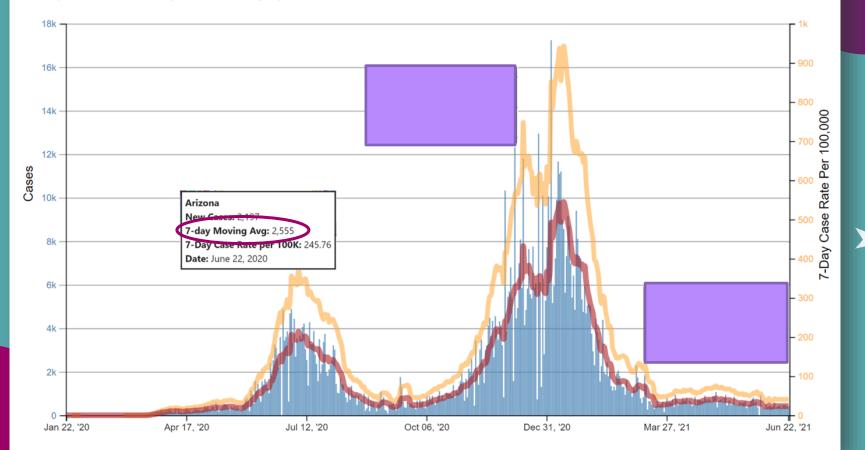




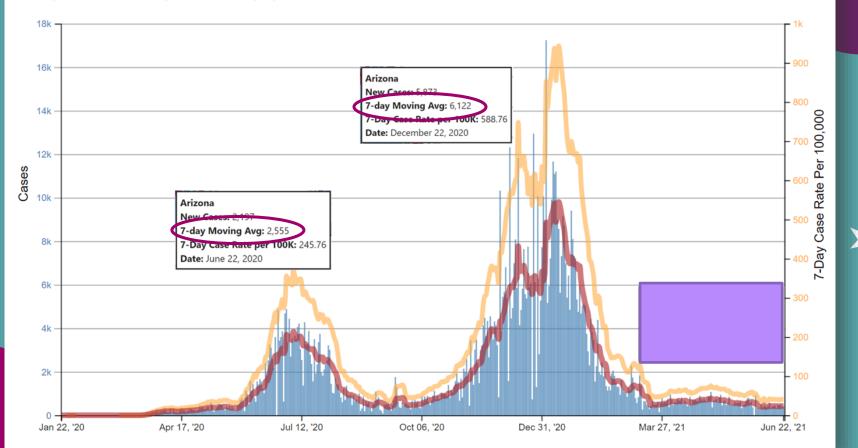


Trends in Daily COVID-19 Cases and 7-Day Cumulative Incidence Rate of COVID-19 Cases in Arizona Reported to CDC, per 100,000 population

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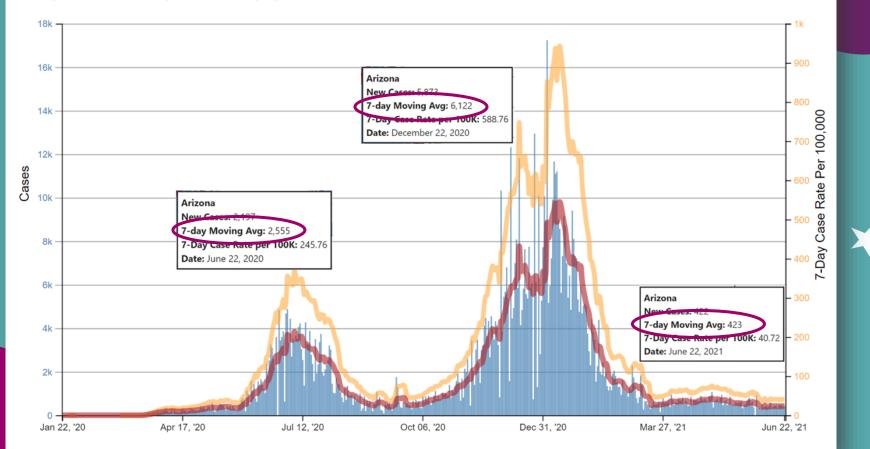


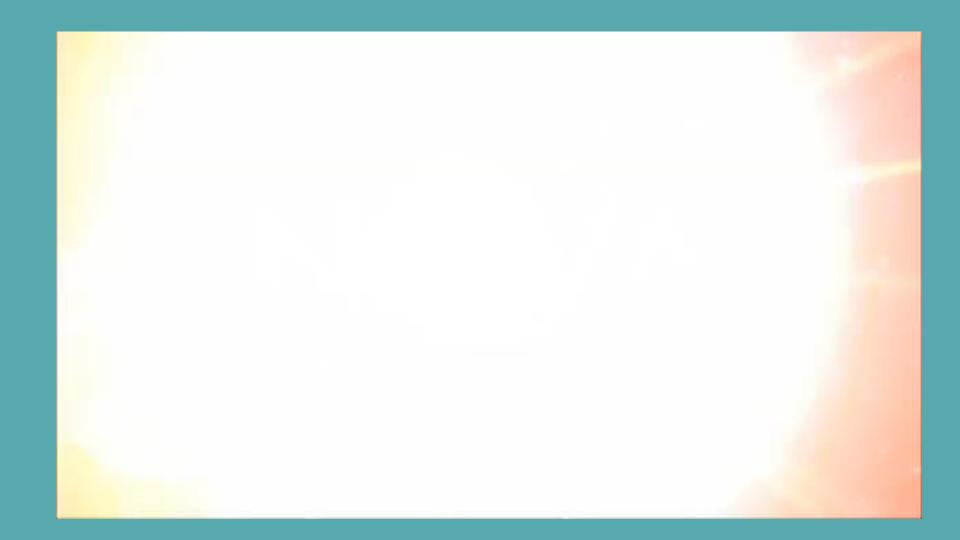
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TYPES OF IMMUNITY

Herd

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PASSIVE

- Mother to infant
- Blood products
- Immune globulin
 - Temporary



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PASSIVE

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- Blood products
- Immune globulin
 - Temporary

ACTIVE

- Natural disease
- Immunization
- Long-lasting

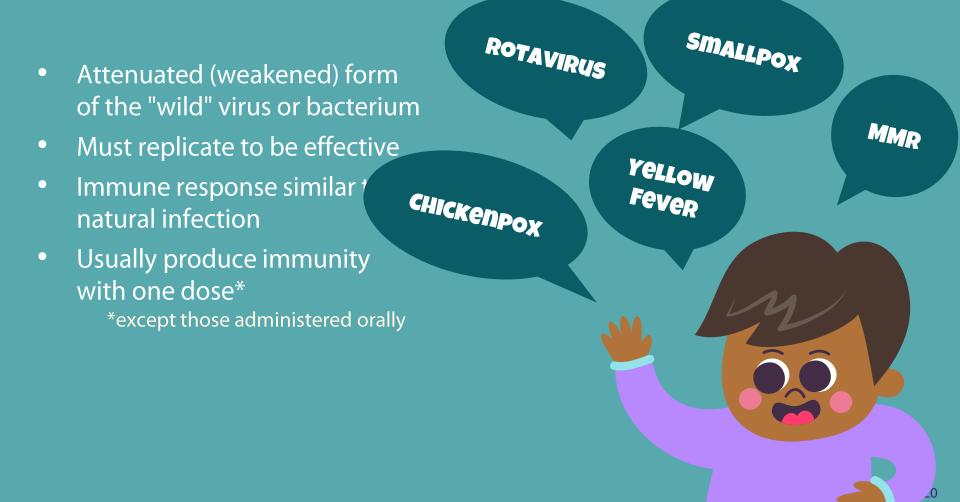


VACCINE TYPES

- Inactivated vaccines
- Live-attenuated vaccines
- Messenger RNA (mRNA) vaccines
- Subunit, recombinant, polysaccharide and conjugate vaccines
- Toxoid vaccines
- Viral vector vaccines

- Attenuated (weakened) form of the "wild" virus or bacterium
- Must replicate to be effective
- Immune response similar to natural infection
- Usually produce immunity with one dose*
 *except those administered orally

LIVE ATTENUATED



INACTIVATED



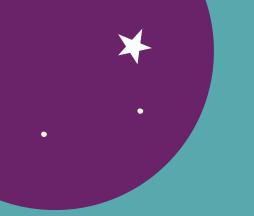
- Cannot replicate
- Different immune response (humoral)
- Unaffected by antibody in the blood
- Generally require 3-5 doses
- Antibody titer diminishes with time
- Adverse events mostly local with or without fever



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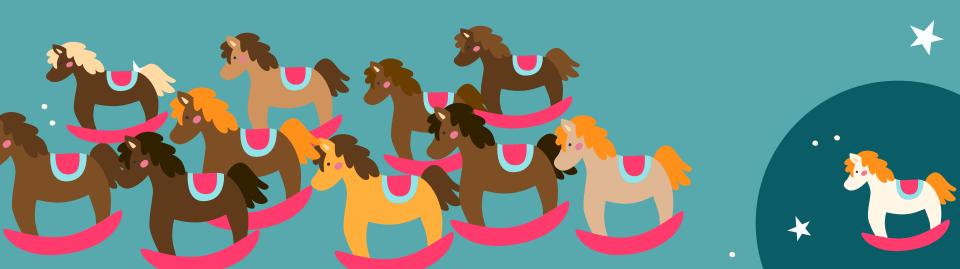




Messenger RNA

WIN A PRIZE!

What kinds of questions are you getting about mRNA vaccines?



SUBUNIT, RECOMBINANT, POLYSACCHARIDE AND CONJUGATE

- Hib
- Hepatitis B
- HPV
- Whooping cough
- Pneumococcal disease
- Meningococcal disease
- Shingles





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MORE VACCINE TYPES



COVID-19



Diptheria

Tetanus

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General Rule

The more similar a vaccine is to the disease-causing form of the organism, the better the immune response to the vaccine



How many vaccines can be given at one time?

28

General Rule

All vaccines can be administered at the same visit as all other vaccines

General Rule

- Increasing the interval between doses of a multidose vaccine does not diminish the effectiveness of the vaccine.
- <u>Decreasing</u> the interval between doses of a multidose vaccine may interfere with antibody response and protection.

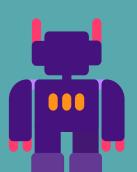
CONTRAINDICATIONS & PRECAUTIONS

Three **permanent** contraindications to vaccines:

- Severe allergic reaction to a vaccine component or following a prior dose
- Encephalopathy (brain swelling) without known cause within seven days of administration of a previous dose of DTP, DTaP or Tdap vaccine
- Severe combined immunodeficiency (rotavirus vaccine)

Two **<u>temporary</u>** contraindications to *live* vaccines

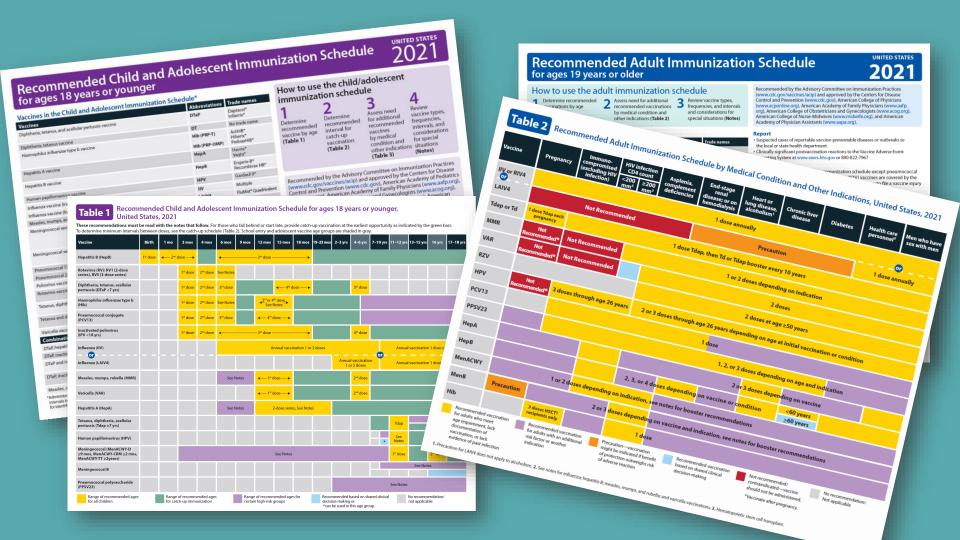
- Pregnancy
- Immunosuppression





ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES

- Panel of 15 experts
- Develops written recommendations
- Establishes schedule
- Meets 4 times/ year (well, not in "COVID times")
- Does not recommend alternate schedules





How often do patients request an alternate schedule?





SCHEDULE OF ACTIVE IMMUNIZATION FOR INFANTS AND CHILDREN

A	ge	Preparation					
11-2	mo.	D.P.T.*	Poliomyelitis vaccine†				
8	mo.	D.P.T.	Poliomyelitis vaccine				
4	mo.	D.P.T.	Poliomyelitis vaccine				
10-19	mo.		Smallpox vaccine				
12-18	mo.	D.P.T.	Poliomyelitis vaccine				
8-4	yr.	D.P.T.	Poliomyelitis vaccine				
5 - 6	yr.		Smallpox vaccine				
8	yr.	D.T. (Adult type)	Poliomyelitis vaccine				
12	vr.	D.T. (Adult type)	Poliomyelitis vaccine				
16	yr.	D.T. (Adult type)	Poliomyelitis vaccine				

* D.P.T. = Diphtheria, pertussis, tetanus.

† Poliomyelitis vaccine for primary immunization of infants may be given as a separate injection or in a commercially prepared quadruple vaccine with D.P.T.

tussis, and tetanus antigens and poliomyelitis vaccine.

There are few contraindications to poliomyelitis vaccination. It may be performed safely at any time of the year, even when poliomyelitis is prevalent. Reactions are extremely rare. The amount of penicillin present in most of the vac-

PEDIATRICS, August 1960

Table 1	acommended Schedule for Active
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trivalent OPV is used, interval should be six weeks or longer: TD, tetanus and diphtheria toxoids, adult type.

-Vol 15, Oct 1967

The recommended immunization schedule by

the AAP in the 1966 Red Book. The first

measles vaccine was approved in 1963.

TABLE 1. Recommended schedule for active immunization of normal infants and children (See individual ACIP recommendations for details.)

Recommended age*		Vaccine(s) [†]	Comments				
	2 mo.	DTP-1, [§] OPV-1 [¶]	Can be given earlier in areas of high endemicity				
	4 mo.	DTP-2, OPV-2	6-wks-2-mo, interval desired between OPV doses to avoid interference				
	6 mo.	DTP-3	An additional dose of OPV at this time is optional for use in areas with a high risk of polio exposure				
	15 mo.**	MMR ^{††}					
	18 mo.**	DTP-4, OPV-3	Completion of primary series				
-	4-6 уг. ^{§§}	DTP-5, OPV-4	Preferably at or before school entry				
	14-16. yr	Td¶	Repeat every 10 years throughout life				

*These recommended ages should not be construed as absolute, i.e. 2 mos. can be 6-10 weeks, etc.

[†]For all products used, consult manufacturer's package enclosure for instructions for storage, handling, and administration. Immunobiologics prepared by different manufacturers may vary, and those of the same manufacturer may change from time to time. The package insert should be followed for a specific product.

[§]DTP-Diphtheria and tetanus toxoids and pertussis vaccine.

OPV - Oral, attenuated poliovirus vaccine contains poliovirus types 1, 2, and 3.

**Simultaneous administration of MMR, DTP, and OPV is appropriate for patients whose compliance with medical care recommendations cannot be assured.

^{††}MMR-Live measles, mumps, and rubella viruses in a combined vaccine (see text for discussion of single vaccines versus combination).

§§Up to the seventh birthday.

11Td-Adult tetanus toxoid and diphtheria toxoid in combination, which contains the same dose of tetanus toxoid as DTP or DT and a reduced dose of diphtheria toxoid.

1983 childhood immunization schedule



Table 1Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger,
United States, 2021

These recommendations must be read with the notes that follow. For those who fall behind or start late, provide catch-up vaccination at the earliest opportunity as indicated by the green bars. To determine minimum intervals between doses, see the catch-up schedule (Table 2). School entry and adolescent vaccine age groups are shaded in gray.

Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19–23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11–12 yrs	13–15 yrs	16 yrs	17–18
Hepatitis B (HepB)	1ª dose	< 2 nd (doseÞ		∢		3 rd dose -										
Rotavirus (RV): RV1 (2-dose series), RV5 (3-dose series)			1 st dose	2 nd dose	See Notes												
Diphtheria, tetanus, acellular pertussis (DTaP <7 yrs)			1 [≠] dose	2 nd dose	3 rd dose			∢ 4 th c	loseÞ			5 th dose					
Haemophilus influenzae type b (Hib)			1ª dose	2 nd dose	See Notes		<a>3rd or 4 See I	th dose, Notes									
Pneumococcal conjugate (PCV13)			1 st dose	2 nd dose	3 rd dose		∢ 4 th (dose►									
Inactivated poliovirus (IPV <18 yrs)			1 st dose	2 nd dose	∢		3 rd dose -					4 th dose					
Influenza (IIV)							A	nnual vacci	nation 1 or	2 doses			-or-	Annua	vaccinatior	1 dose o	nly
Influenza (LAIV4)												l vaccinatio r 2 doses		Annua	vaccinatior	1 dose o	nly
Measles, mumps, rubella (MMR)					See 1	Notes	∢ 1 st c	doseÞ				2 nd dose					
Varicella (VAR)							∢ 1 st (doseÞ				2 nd dose					
Hepatitis A (HepA)					See 1	Notes	:	2-dose serie	es, See Note	25							
Tetanus, diphtheria, acellular pertussis (Tdap ≥7 yrs)														Tdap			
Human papillomavirus (HPV)													*	See Notes			
Meningococcal (MenACWY-D ≥9 mos, MenACWY-CRM ≥2 mos, MenACWY-TT ≥2years)								See Notes						1 st dose		2 nd dose	
Meningococcal B															See Not	es	
Pneumococcal polysaccharide (PPSV23)														See Notes			
Range of recommended ages for all children		Range for cat	of recomm ch-up immu	ended ages unization	5		e of recomn n high-risk		s for	decisi	on-making	oased on sh or this age gro			No recomm not applical		

Chat in your questions about the schedule!

Table 2	Recommended Catch-up Immunization Schedule for Children and Adolescents Who Start Late or Who Are More than 1 month Behind, United States, 2021
Table 2	than 1 month Behind, United States, 2021
The table below pr	avides sate up school des and minimum intervals between desse for shildren where we singtions have been delayed A version series does not need to be restauted recordless of the

The table below provides catch-up schedules and minimum intervals between doses for children whose vaccinations have been delayed. A vaccine series does not need to be restarted, regardless of the time that has elapsed between doses. Use the section appropriate for the child's age. Always use this table in conjunction with Table 1 and the notes that follow.

Vaccine	Minimum Age for		Minimum Interval Between Doses		
accine .	Dose 1	Dose 1 to Dose 2	Dose 2 to Dose 3	Dose 3 to Dose 4	Dose 4 to Dose
Hepatitis B	Birth	4 weeks	8 weeks and at least 16 weeks after first dose. Minimum age for the final dose is 24 weeks.	00505 10 00504	00364100036
Rotavirus	6 weeks Maximum age for first dose is 14 weeks, 6 days.	4 weeks	4 weeks Maximum age for final dose is 8 months, 0 days.		
Diphtheria, tetanus, and acellular pertussis	6 weeks	4 weeks	4 weeks	6 months	6 months
Haemophilus influenzae type b	6 weeks	No further doses needed if first dose was administered at age 15 months or older. 4 weeks if first dose was administered before the 1* birthday. 8 weeks (as final dose) if first dose was administered at age 12 through 14 months.	No further doses needed if previous dose was administered at age 15 months or older. 4 weeks if current age is younger than 12 months and first dose was administered at younger than age 7 months and at least 1 previous dose was ABPT- (ActiHb) Pentacel, Hiberixi or unknown. 8 weeks and age 12 through 59 months (as final dose) if current age is younger than 12 months and first dose was administered at age 7 through 11 months; OR if current age is 12 through 59 months and first dose was administered before the 1 st birthday and second dose was administered at younger than 15 months; OR if current sever PRP-OMP (PedvaxHIB, Comvax) and were administered before the 1 st birthday.	8 weeks (as final dose) This dose only necessary for children age 12 through 59 months who received 3 doses before the 1 st birthday.	
Pneumococcal conjugate	6 weeks	No further doses needed for healthy children iffrat dose was administered at age 24 months or older. 4 weeks if first dose was administered before the 1 ⁺ birthday. 8 weeks (as final dose for healthy children) if first dose was administered at the 1 ⁺ birthday or after.	No further doses needed for healthy children if previous dose was administered at age 24 months or older. 4 weeks if current age is younger than 12 months and previous dose was administered at <7 months old. 8 weeks (as final dose for healthy children) if previous dose was administered between 7–11 months (wait until at least 12 months old); OR if current age is 12 months or older and at least 1 dose was administered before age 12 months.	8 weeks (as final dose) This dose only necessary for children age 12 through 59 months who received 3 doses before age 12 months or for children at high risk who received 3 doses at any age.	
Inactivated poliovirus	6 weeks	4 weeks	4 weeks if current age is <4 years. 6 months (as final dose) if current age is 4 years or older.	6 months (minimum age 4 years for final dose).	
Measles, mumps, rubella	12 months	4 weeks			
Varicella	12 months	3 months			
Hepatitis A	12 months	6 months			
Meningococcal ACWY	2 months MenACWY- CRM 9 months MenACWY-D 2 years MenACWY-TT	8 weeks	See Notes	See Notes	
			Children and adolescents age 7 through 18 years		1
Meningococcal ACWY	Not applicable (N/A)	8 weeks			
Tetanus, diphtheria; tetanus, diphtheria, and acellular pertussis	7 years	4 weeks	4 weeks if first dose of DTaP/DT was administered before the 1 st birthday. 6 months (as final dose) if first dose of DTaP/DT or Tdap/Td was administered at or after the 1 st birthday.	6 months if first dose of DTaP/ DT was administered before the 1 st birthday.	
Human papillomavirus	9 years	Routine dosing intervals are recommended.			
Hepatitis A	N/A	6 months			
Hepatitis B	N/A	4 weeks	8 weeks and at least 16 weeks after first dose.		
Inactivated poliovirus	N/A	4 weeks	6 months A fourth dose is not necessary if the third dose was administered at age 4 years or older and at least 6 months after the previous dose.	A fourth dose of IPV is indicated if all previous doses were administered at <4 years or if the third dose was administered <6 months after the second dose.	
Measles, mumps, rubella	N/A	4 weeks			
Varicella	N/A	3 months if younger than age 13 years. 4 weeks if age 13 years or older.			

MINIMUM AGES/ INTERVALS Spacing between vaccine doses

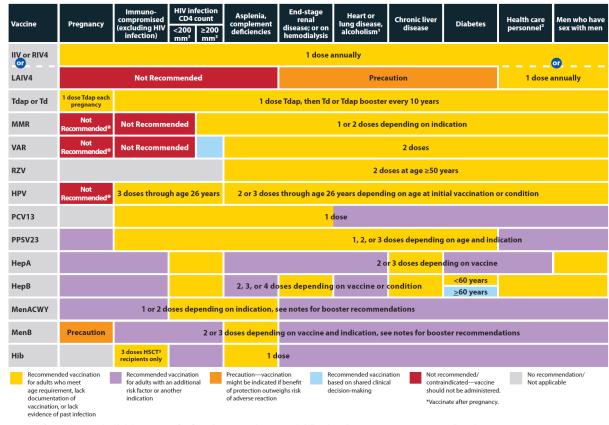
- Minimum age for receiving initial doses
- Minimum intervals between doses
- Grace period of 4 days for all vaccines includes initial doses and intervals between doses
- If dose of vaccine is given at a shorter interval (allowing grace period) even one day shorter - it doesn't count as a valid dose
- Doses too close can reduce vaccine effectiveness



What have you tried that you would recommend to others?



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



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.

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 dose Tdap each pregnancy; 1 dose Td/Tdap for wound management (see notes) 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)							
Varicella (VAR)	2 dos							
Zoster recombinant (RZV)		2 do						
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 depe	nding 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 indicati	on, see notes for booster recommenda	tions				
Meningococcal B (MenB)	2 or 3 dos 19 through 23 years	es depending on vaccine and i	ndication, see notes for booster recom	mendations				
Haemophilus influenzae type b (Hib)		1 or 3 doses do	epending 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

TIPS & TOOLS

- Have a calendar available in each exam room See our TAPI handout!
- Count weeks between shots
- Check the age of the child to assure accurate time for shots



SARE?

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www.WhyImmunize.org



ASIIS REMINDER RECALL

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T.I.P.S. VIRTUAL VACCINE CONVERSATIONS

Plan to attend

each session to be eligible

fora

FREE PRIZE!

Training on Immunization Practice Strategies (T.I.P.S.)

TAPI, in collaboration with the Arizona Department of Health Services Immunization Program, presents free trainings that improve immunization practices in public and private providers' offices. Participants receive valuable information on immunization friendly office practices, vaccine handling, state requirements, how to give shots and the state immunization registry.

Schedule of Virtual Conversations

Training on Immunization Practice Strategies (T.I.P.S.) is a series of 5 sessions for medical assistants and vaccine coordinators.

Session #1 – Thursday, June 10th, 12:00-1:00 PM Why Vaccines are Important: Protecting Herd Immunity Session #2 - Thursday, June 24th, 12:00-1:00 PM Vaccine Basics and Understanding the ACIP Schedule Session #3 – Thursday, July 8th, 12:00-1:00 PM Protecting the Cold Chain and Preparing for Patients Session #4 - Thursday, July 22nd, 12:00-1:00 PM **Empowering Patients and Administering Vaccines** Session #5 – Thursday, August 5th, 12:00-1:00 PM Best Practices for Immunization Delivery in Arizona

*Shown in AZ Time



REGISTER NOW!

Remember

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Register ONCE & you can attend ALL SESSIONS!

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THANK YOU FOR SAVING LIVES EVERY DAY!

To download slides & view the video recording of today's training, visit:

HTTPS://WHYIMMUNIZE.ORG/TAPI-TRAINING/

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