### Illinois Chapter

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Immunization Webinar Series:
A Review of 2023 Vaccine Updates
& What to Expect in 2024



Sharon Hovey, MD, FAAP

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## HELLO!





## **Sharon Hovey, MD, FAAP**

Pediatrician at Duly Health and Care

## Learning Objectives



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Review updated vaccine recommendations for children and adolescents

Understand changes made to the ACIP 2024 Immunization Schedules

Discuss the importance of childhood vaccines

## **ACIP Meeting Updates**



- On October 26, ACIP approved the 2024 vaccine schedule for children and adolescents.
- Benefits of approving the schedule earlier than normal:
  - Improve delays to healthcare providers knowledge and practices related to new vaccine recommendations
  - Speed up insurance reimbursement to providers
  - Increase ability of certain providers to administer immunizations (some states link pharmacists' immunization authority to the schedule)



## Overview of Updates

- Added the following vaccines and other immunizing agents:
  - 20-Valent Pneumococcal Conjugate Vaccine (PCV20)
  - RSV monoclonal antibody (nirsevimab)
  - Meningococcal groups A, B, C, W, Y (Penbraya)
  - Mpox vaccine (Jynneos)
- Updated:
  - COVID-19 Vaccines and Influenza Vaccine for 2023-2024 season
- Addendum:
  - New section to summarize new and updated ACIP recommendations that will occur after the 2024 child and adolescent immunization schedule is published.

## Changes to the Cover Page

### Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger

**UNITED STATES** 

Vaccines and Other Immunizing Agents in the Child and Adolescent Immunization Schedule\*

Monoclonal antibody		Trade name(s)	
Respiratory syncytial virus monoclonal antibody (Nirsevimab)	RSV-mAb	Beyfortus™	
Vaccine	Abbreviation(s)	Trade name(s)	
COVID-19	1vCOV-mRNA	Comirnaty®/Pfizer- BioNTech COVID-19 Vaccine Spikevax®/Moderna COVID-19 Vaccine	
	1vCOV-aPS	Novavax COVID-19 Vaccine	
Dengue vaccine	DEN4CYD	Dengvaxia*	
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel* Infanrix*	
Haemophilus Influenzae type b vaccine	Hib (PRP-T) Hib (PRP-OMP)	ActHIB* Hiberix* PedvaxHIB*	
Hepatitis A vaccine	НерА	Havrix <sup>e</sup> Vaqta <sup>a</sup>	
Hepatitis B vaccine	НерВ	Engerix-B* Recombivax HB*	
Human papillomavirus vaccine	HPV	Gardasil 9*	
Influenza vaccine (inactivated)	IIV4	Multiple	
Influenza vaccine (live, attenuated)	LAIV4	FluMist® Quadrivalent	
Measles, mumps, and rubella vaccine	MMR	M-M-R II* Priorix*	
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-CRM MenACWY-TT	Menveo* MenQuadfi*	
Meningococcal serogroup B vaccine	Men8-4C Men8-FHbp	Bexsero* Trumenba*	
Meningococcal serogroup A, B, C, W, Y vaccine	MenACWY-TT/ MenB-FHbp	Penbraya™	
Mpox vaccine	Мрох	Jynneos*	
Pneumococcal conjugate vaccine	PCV15	Vaxneuvance™	
	PCV20	Prevnar 20*	
Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23*	
Poliovirus vaccine (inactivated)	IPV	lpol*	
Respiratory syncytial virus vaccine	RSV	Abrysvo™	
Rotavirus vaccine	RV1 RV5	Rotarix* RotaTeq*	
Tetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel* Boostrix*	
Tetanus and diphtheria vaccine	Td	Tenivac* Tdvax™	
Varicella vaccine	VAR	Varivax**	
Combination vaccines (use combination vaccines instead of separate inject			
DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix*	
DTaP, inactivated poliovirus, and Haemophilus influenzae type b vaccine	DTaP-IPV/Hib	Pentacel*	
DTaP and inactivated poliovirus vaccine	DTaP-IPV Kinrix® Quadracel®		
DTaP, inactivated poliovirus, Haemophilus influenzae type b, and hepatitis B vaccine	DTaP-IPV-Hib- Hep8	Vaxelis*	
Measles, mumps, rubella, and varicella vaccine	MMRV	ProOuad®	

extended intervals between doses. When a vaccine is not administered at the recommended age, administer at a subsequent visit. The use of trade names is for identification purposes only and does not imply endorsement by the ACIP or CDC.

How to use the child and adolescent immunization schedule

Determine

recommended vaccine by age (Table 1)

Determine recommended up vaccination

Assess need for additional interval for catch- recommended vaccines by medical condition or other indication (Table 3)

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

Review contraindication and precautions for vaccine types (Appendix)

6 Review new or updated ACIP quidance (Addendum)

Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/acip) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American Academy of Pediatrics (www.aap.org), American Academy of Family Physicians (www.aafp.org), American College of Obstetricians and Gynecologists (www.acog.org), American College of Nurse-Midwives (www.midwife.org), American Academy of Physician Associates (www.aapa.org), and National Association of Pediatric Nurse Practitioners (www.napnap.org).

- Suspected cases of reportable vaccine-preventable diseases or outbreaks to your state or local health
- Clinically significant adverse events to the Vaccine Adverse Event Reporting System (VAERS) at www.vaers.hhs.gov or 800-822-7967

#### Questions or comments

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

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

#### Helpful information

- Complete Advisory Committee on Immunization Practices (ACIP) recommendations: www.cdc.gov/vaccines/hcp/acip-recs/index.html
- ACIP Shared Clinical Decision-Making Recommendations: www.cdc.gov/vaccines/acip/acip-scdm-faqs.html
- General Best Practice Guidelines for Immunization (including contraindications and precautions): www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html
- Vaccine information statements: www.cdc.gov/vaccines/hcp/vis/index.html
- Manual for the Surveillance of Vaccine-Preventable Diseases (including case identification and outbreak response): www.cdc.gov/vaccines/pubs/surv-manual



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

Scan OR code for access to



https://www.cdc.gov/vaccines/acip/meetings/ downloads/slides-2023-10-25-26/02-IZ-Schedules-Wodi-508.pdf

## Changes to Table 2

Table 2

## Recommended Catch-up Immunization Schedule for Children and Adolescents Who Start Late or Who Are More

than 1 Month Behind, United States, 2024

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.

			Children age 4 months through 6 years					
Vaccine	Minimum Age for Dose 1		Minimum Interval Between Doses					
New York Control of the Control of t	The state of the s	Dose 1 to Dose 2	Dose 2 to Dose 3	Dose 3 to Dose 4	Dose 4 to Dose 5			
lepatitis B	Birth	4 weeks	8 weeks and at least 16 weeks after first dose minimum age for the final dose is 24 weeks					
lotavirus	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 cellular pertussis	6 weeks	4 weeks	4 weeks	6 months	6 months A fifth dose is not necessa if the fourth dose was administered at age 4 yea older and at least 6 month after dose 3			
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 PRP-T (ActHib*, Pentacel*, Hilberix*), Vaxelis* 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* birthday and second dose was administered at younger than 15 months; OR if both doses were PedvaxHill* and were administered before the 1* birthday	8 weeks (as final dose) This dose only necessary for children age 12 through 59 months who received 3 doses before the 1° birthday.				
Pneumococcal conjugate	6 weeks	No further doses needed for healthy children if first 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 is only necessary for children age 12 through 59 months regardless of risk, or age 60 through 71 months with any risk, who received 3 doses before age 12 months.				
nactivated 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						
aricella	12 months	3 months						
lepatitis A	12 months	6 months						
Meningococcal ACWY	2 months MenACWY-CRM 2 years MenACWY-TT	8 weeks	See Notes	See Notes				
			Children and adolescents age 7 through 18 years					
Meningococcal ACWY	Not applicable (N/A)	8 weeks						
Tetanus, diphtheria; etanus, diphtheria, and acellular pertussis	7 years	4 weeks	4 weeks If first dose of DTaP/DT was administered before the 1st birthday 6 months (as final dose) If first dose of DTaP/DT or Tdap/Td was administered at or after the 1st birthday	6 months if first dose of DTaP/DT was administered before the 1st birthday				
Human papillomavirus	9 years	Routine dosing intervals are recommended.						
lepatitis A	N/A	6 months						
epatitis B	N/A	4 weeks	8 weeks and at least 16 weeks after first dose					
nactivated 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 <i>and</i> 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						
		3 months if younger than age 13 years.						
/aricella	N/A	4 weeks if age 13 years or older						

https://www.cdc.gov/vaccines/acip/meetings/ downloads/slides-2023-10-25-26/02-IZ-Schedules-Wodi-508.pdf

## Changes to Table 3

IPV Updated the COVID-19 See Notes IIV4 legend LAIV4 definitions for MMR more clarity VAR **Hepatitis A** Harmonized HPV 3 dose series. See Notes changes with MenACWY adult vaccine MenB Seasonal administration, schedules RSV (Abrysvo) Dengue Mpox Recommended for all age-Not recommended for all children, Recommended for all age-eligible Precaution: Might be Contraindicated or not No Guidance/ eligible children who lack but is recommended for some children, and additional doses may be indicated if benefit of Not Applicable documentation of a complete children based on increased risk for necessary based on medical condition protection outweighs \*Vaccinate after pregnancy, vaccination series or severe outcomes from disease or other indications. See Notes. risk of adverse reaction if indicated https://www.cdc.gov/vaccines/acip/meetings/ a. For additional information regarding HIV laboratory parameters and use of live vaccines, see the General Best Practice Guidelines for Immunization, c. LAIV4 contraindicated for children 2-4 years of age with "Altered Immunocompetence," at www.cdc.gov/vaccines/hcp/acjp-recs/general-recs/immunocompetence.html and Table 4-1 (footnote J) at www.cdc.gov/vaccines/hcp/acjp-recs/general-recs/contraindications.html. b. Severe Combined Immunodeficiency asthma or wheezing during the preceding 12 months

<15% or

SCID

HSCT: 3 doses

≥15% and

columns. See Notes for medical conditions not listed.

RSV-mAb

Rotavirus

DTaP/Tdap

Pneumococcal

(nirsevimab Hepatitis B

Pregnancy

DTaP

Recommended Child and Adolescent Immunization Schedule by Medical Indication, United States, 2024

Always use this table in conjunction with Table 1 and the Notes that follow. Medical conditions are often not mutually exclusive. If multiple conditions are present, refer to guidance in all relevant

CSF leak or

1 dose depending on maternal

**RSV vaccination status, See Notes** 

See Notes

Heart disease or

2nd RSV season for chronic

lung disease (See Notes)

**Chronic liver** 

1 dose depending on maternal

**RSV vaccination status, See Notes** 

downloads/slides-2023-10-25-26/02-IZ-Schedules-Wodi-508.pdf

# Table 3: New Legend Definitions

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Recommended for all ageeligible children who lack documentation of a complete vaccination series Not recommended for all children, but is recommended for some children based on increased risk for or severe outcomes from disease

Recommended for all age-eligible children, and additional doses may be necessary based on medical condition or other indications. See Notes.

Precaution: Might be indicated if benefit of protection outweighs risk of adverse reaction

Contraindicated or not recommended

\*Vaccinate after pregnancy, if indicated

No Guidance/ Not Applicable

## COVID-19 Vaccines

Removed bivalent vaccine information and added guidance for updated 2023-2024 COVID-19 vaccines

#### **COVID-19 vaccination**

(minimum age: 6 months [Moderna and Pfizer-BioNTech COVID-19 vaccines], 12 years [Novavax COVID-19 Vaccine])

#### Routine vaccination

#### Age 6 months-4 years

- Unvaccinated:
- 2-dose series of updated (2023-2024 Formula) Moderna at 0, 4-8 weeks
- 3-dose series of updated (2023-2024 Formula) Pfizer-BioNTech at 0, 3-8, 11-16 weeks
- Previously vaccinated\* with 1 dose of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna 4-8 weeks after the most recent dose.
- · Previously vaccinated\* with 2 or more doses of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna at least 8 weeks after the most recent dose.
- Previously vaccinated\* with 1 dose of any Pfizer-BioNTech: 2-dose series of updated (2023–2024 Formula) Pfizer-BioNTech at 0, 8 weeks (minimum interval between previous Pfizer-BioNTech and dose 1: 3-8 weeks).
- · Previously vaccinated\* with 2 or more doses of any Pfizer-BioNTech: 1 dose of updated (2023-2024 Formula) Pfizer-BioNTech at least 8 weeks after the most recent dose.

#### Age 5-11 years

- Unvaccinated: 1 dose of updated (2023–2024 Formula) Moderna or Pfizer-BioNTech vaccine.
- Previously vaccinated\* with 1 or more doses of Moderna or Pfizer-BioNTech: 1 dose of updated (2023-2024 Formula) Moderna or Pfizer-BioNTech at least 8 weeks after the most recent dose.

#### Age 12-18 years

- Unvaccinated:
- 1 dose of updated (2023-2024 Formula) Moderna or Pfizer-BioNTech vaccine
- 2-dose series of updated (2023-2024 Formula) Novavax at
- Previously vaccinated\* with any COVID-19 vaccine(s): 1 dose of any updated (2023-2024 Formula) COVID-19



## COVID-19 Vaccine Policy

- Updated COVID-19 vaccination guidelines from the CDC:
- Interchangeability: The same manufacturer should be used for all doses; however a different age-appropriate COVID-19 vaccine may be administered if:
  - Same vaccine not available at the vaccination site.
  - Previous dose is unknown.
  - Person would otherwise not receive the vaccine dose.
  - Person starts but unable to complete a vaccine series with the same vaccine due to a contraindication.
    - A VAERS report is not indicated in these circumstances.
- Age Transitions: Updated guidance for children who transition during the initial COVID-19 vaccination series to receive the age-appropriate dosage based on their age on the day of vaccination.

## Influenza Vaccination

- Updated to reflect the recommendations for the 2023-24 influenza season.
- "Special situations": added note that people with an egg allergy can be vaccinated with any influenza vaccine with no additional safety concerns.

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Influenza vaccination (minimum age: 6 months [IIV], 2 years [LAIV4], 18 years [recombinant influenza vaccine, RIV4])

#### Routine vaccination

- Use any influenza vaccine appropriate for age and health status annually:
- Age 6 months-8 years who have received fewer than 2 influenza vaccine doses before July 1, 2023, or whose influenza vaccination history is unknown: 2 doses, separated by at least 4 weeks. Administer dose 2 even if the child turns 9 years between receipt of dose 1 and dose 2.
- Age 6 months-8 years who have received at least 2 influenza vaccine doses before July 1, 2023: 1 dose
- Age 9 years or older: 1 dose
- For the 2023-2024 season, see www.cdc.gov/mmwr/ volumes/72/rr/rr7202a1.htm.
- For the 2024–25 season, see the 2024–25 ACIP influenza vaccine recommendations.

#### Special situations

 Close contacts (e.g., household contacts) of severely immunosuppressed persons who require a protected environment: should not receive LAIV4. If LAIV4 is given, they should avoid contact with for such immunosuppressed persons for 7 days after vaccination.

**Note:** Persons with an egg allergy can receive any influenza vaccine (egg-based and non-egg-based) appropriate for age and health status.

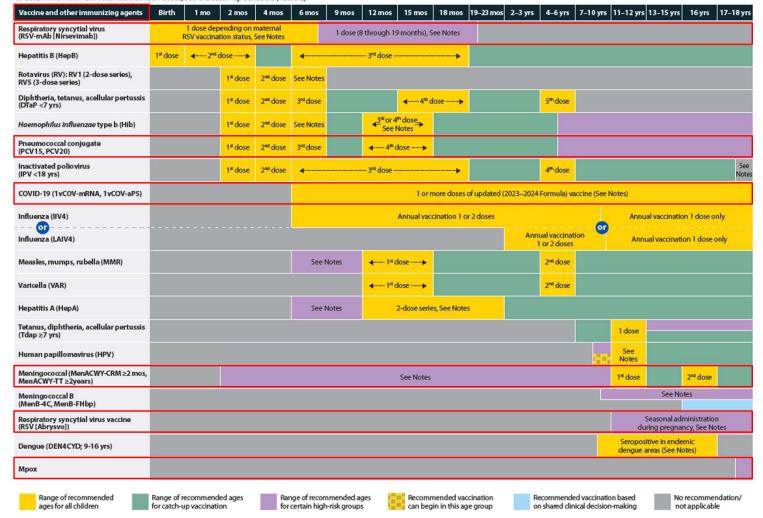
https://www.cdc.gov/vaccines/schedules/hcp/schedule-changes.html https://www.cdc.gov/vaccines/schedules/downloads/child/0-18yrs-child-combined-schedule.pdf

## Changes to Table 1

Table 1

Recommended Child and Adolescent Immunization Schedule for Ages 18 Years or Younger, United States, 2024

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).



https://www.cdc.gov/vaccines/acip/meetings/ downloads/slides-2023-10-25-26/02-IZ-Schedules-Wodi-508.pdf

## Meningococcal ACWY Vaccination



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- MenACWY-D (Menactra) has been removed from all sections.
- Added information on recommendation for the pentavalent meningococcal A, B, C, W, Y vaccine (Penbraya).

Meningococcal serogroup A,C,W,Y vaccination (minimum age: 2 months [MenACWY-CRM, Menveo], 2 years [MenACWY-TT, MenQuadfi]), 10 years [MenACWY-TT/MenB-FHbp, Penbraya])

#### Routine vaccination

2-dose series at age 11–12 years; 16 years

#### Catch-up vaccination

- Age 13–15 years: 1 dose now and booster at age 16–18 years (minimum interval: 8 weeks)
- Age 16–18 years: 1 dose

## Pneumococcal Vaccination



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- PCV13 has been deleted from all sections.
- The routine vaccination, catch-up vaccination, and "Special Situations" sections have been updated with the new recommendations for use of 15-valent pneumococcal conjugate vaccine (PCV15), PCV20, and PPSV23.
- New <u>Red Book Chapter</u> Available
  - Pneumococcal Infections chapter is updated to reflect current guidelines for the use of the new 20-valent pneumococcal conjugate vaccine (PCV20, Prevnar 20, Pfizer) for children

Pneumococcal vaccination (minimum age: 6 weeks [PCV15], [PCV 20]; 2 years [PPSV23])

#### Routine vaccination with PCV

4-dose series at 2, 4, 6, 12-15 months

#### Catch-up vaccination with PCV

- Healthy children ages 2–4 years with any incomplete\*
   PCV series: 1 dose PCV
- For other catch-up guidance, see Table 2.

**Note:** For children **without** risk conditions, PCV20 is not indicated if they have received 4 doses of PCV13 or PCV15 or another age appropriate complete PCV series.

## Poliovirus Vaccination

- "Catch up" vaccination revised to include updated recommendations for adolescents aged 18 years.
- Added recommendations for adolescents aged 18 years who are at increased risk for exposure to poliovirus and have completed the primary series.

#### Poliovirus vaccination (minimum age: 6 weeks)

#### Routine vaccination

- 4-dose series at ages 2, 4, 6–18 months, 4–6 years; administer the final dose on or after age 4 years and at least 6 months after the previous dose.
- 4 or more doses of IPV can be administered before age 4 years when a combination vaccine containing IPV is used. However, a dose is still recommended on or after age 4 years and at least 6 months after the previous dose.

#### Catch-up vaccination

- In the first 6 months of life, use minimum ages and intervals only for travel to a polio-endemic region or during an outbreak.
- Adolescents age 18 years known or suspected to be unvaccinated or incompletely vaccinated: administer remaining doses (1, 2, or 3 IPV doses) to complete a 3-dose primary series.\* Unless there are specific reasons to believe they were not vaccinated, most persons aged 18 years or older born and raised in the United States can assume they were vaccinated against polio as children.

**Series containing oral poliovirus vaccine (OPV)**, either mixed OPV-IPV or OPV-only series:

- Total number of doses needed to complete the series is the same as that recommended for the U.S. IPV schedule. See www.cdc.gov/mmwr/volumes/66/wr/mm6601a6.htm?s\_%20 cid=mm6601a6 w.
- Only trivalent OPV (tOPV) counts toward the U.S. vaccination requirements.
- Doses of OPV administered before April 1, 2016, should be counted (unless specifically noted as administered during a campaign).
- Doses of OPV administered on or after April 1, 2016, should not be counted.
- For guidance to assess doses documented as "OPV," see www.cdc.gov/mmwr/volumes/66/wr/mm6606a7.htm?s\_ cid=mm6606a7\_w.

https:/ • For other catch-up guidance, see Table 2.

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## Mpox Vaccine

Mpox note was added to provide guidance for use of Jynneos in adolescents age 18 years based on sexual risk factors.

#### Mpox vaccination (minimum age: 18 years [Jynneos®])

#### Special situations

 Age 18 years and at risk for Mpox infection: 2-dose series, 28 days apart.

#### Risk factors for Mpox infection include:

- Persons who are gay, bisexual, and other MSM, transgender or nonbinary people who in the past 6 months have had:
- · A new diagnosis of at least 1 sexually transmitted disease
- · More than 1 sex partner
- Sex at a commercial sex venue
- Sex in association with a large public event in a geographic area where Mpox transmission is occurring
- Persons who are sexual partners of the persons described above
- Persons who anticipate experiencing any of the situations described above
- Pregnancy: There is currently no ACIP recommendation for Jynneos use in pregnancy due to lack of safety data in pregnant persons. Pregnant persons with any risk factor described above may receive Jynneos.

For detailed information, see: www.cdc.gov/vaccines/acip/ meetings/downloads/slides-2023-10-25-26/04-MPOX-Rao-508.pdf

## RSV Monoclonal Antibody

- Added schedule for use of nirsevimab (Beyfortus) in infants and young children.
  - Includes guidance for jurisdictions with RSV seasonality that differs from most of the continental US

Respiratory syncytial virus immunization (minimum age: birth [Nirsevimab, RSV-mAb (Beyfortus™)

#### Routine immunization

- Infants born October March in most of the continental United States\*
- Mother did not receive RSV vaccine OR mother's RSV vaccination status is unknown: administer 1 dose nirsevimab within 1 week of birth in hospital or outpatient setting
- Mother received RSV vaccine less than 14 days prior to delivery: administer 1 dose nirsevimab within 1 week of birth in hospital or outpatient setting
- Mother received RSV vaccine at least 14 days prior to delivery: nirsevimab not needed but can be considered in rare circumstances at the discretion of healthcare providers (see special populations and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-fags.html)
- Infants born April-September in most of the continental United States\*
- Mother did not receive RSV vaccine OR mother's RSV vaccination status is unknown: administer 1 dose nirsevimab shortly before start of RSV season\*
- Mother received RSV vaccine less than 14 days prior to delivery: administer 1 dose nirsevimab shortly before start of RSV season\*
- Mother received RSV vaccine at least 14 days prior to delivery: nirsevimab not needed but can be considered in rare circumstances at the discretion of healthcare providers(see special populations and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-faqs.html)

Infants with prolonged birth hospitalization\*\* (e.g., for prematurity) discharged October through March should be immunized shortly before or promptly after discharge.

https://www.cdc.gov/vaccines/schedules/hcp/schedule-changes.html https://www.cdc.gov/vaccines/schedules/downloads/child/0-18yrs-child-combined-schedule.pdf

## **RSV Vaccine**

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- Added schedule for use of RSV vaccine (Abrysvo) during pregnancy.
  - Includes information describing timing of vaccination including guidance of jurisdictions with RSV seasonality that differs from most of continental US.

## Respiratory syncytial virus vaccination (RSV [Abrysvo™])

#### Routine vaccination

- Pregnant at 32 weeks 0 days through 36 weeks and 6 days gestation from September through January in most of the continental United States\*: 1 dose RSV vaccine (Abrysvo™).
   Administer RSV vaccine regardless of previous RSV infection.
  - Either maternal RSV vaccination or infant immunization with nirsevimab (RSV monoclonal antibody) is recommended to prevent respiratory syncytial virus lower respiratory tract infection in infants.
- All other pregnant persons: RSV vaccine not recommended.
   There is currently no ACIP recommendation for RSV vaccination in subsequent pregnancies. No data are available to inform whether additional doses are needed in later pregnancies.
- \*Note: Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdiction with tropical climate) should follow guidance from public health authorities (e.g., CDC, health departments) or regional medical centers on timing of administration based on local RSV seasonality.

## Importance of Vaccinating

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## Declining Childhood Vaccinations

- Routine Kindergarten vaccinations hit a new low of 93% in 2022 (below the 95% threshold)
- Non-medical exemptions are biggest drivers – religious and philosophical exemptions rose rapidly
- Exemptions over 5% increases risk of vaccine-preventable disease outbreaks
  - Current outbreak of measles in Cook
     County among unvaccinated children
- Misinformation continues to impact vaccination with a loss of trust in public health and disruption of care.

### % of kindergarteners with a vaccine exemption

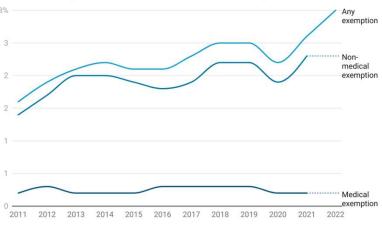


Chart: YLE/Katelyn Jetelina • Source: CDC • Created with Datawrapper

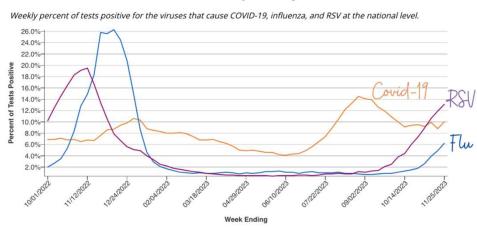
https://yourlocalepidemiologist.substack.com/p/drop-in-routine-vaccinations

## Current Respiratory Landscape



- Influenza-Like Illnesses Increasing
  - Influenza-like illnesses in the US is surpassing the "epidemic" level threshold, expected to increase even more.
- Respiratory Illness Activity
  - Surge is driven by both flu and RSV
  - COVID-19 remains a significant contributor to positive test results.
- Mortality Trends
  - Flu deaths are rising 8 pediatric deaths this season
  - COVID-19 continues to cause the highest percentage of deaths, although lower than last year.

### Percent of Tests Positive for Respiratory Viruses



If you have not already, it is not too late to get vaccinated against respiratory viruses this season!

https://yourlocalepidemiologist.substack.com/p/state-of-affairs-dec-5

## Getting Back on Track



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Table 2 Recommended Catch-up Immunization Schedule for Children and Adolescents Who Start Late or Who Are More than 1 Month Behind, United States, 2024

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.

- ACIP Catch-Up schedule (Table 2)
- Catch-Up Job Aids from CDC

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## THANK YOU!

**Any questions?** 

## **Upcoming Webinars**

Illinois Chapter
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American Academy of Pediatrics
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2024 Immunization Webinar Series

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