# Penn State College of Medicine Continuing Education

#### **29th Pennsylvania Immunization Conference**

Friday, June 13, 2025

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Unauthorized distribution or use is prohibited.

Any names or ages used on the upcoming slides are fictitious and not referring to an actual patient.



1

# There's an app for that: CDC Vaccine Schedules and PneumoRecs VaxAdvisor Apps

29TH PENNSYLVANIA IMMUNIZATION CONFERENCE

JUNE 13, 2025

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## **LEARNING OBJECTIVES**

- 1. Discuss functionality of the CDC Vaccine Schedule and PneumoRecs VaxAdvisor Apps
- 2. Analyze case-based examples using the CDC vaccine mobile apps

3

# CDC Vaccine Schedules App for Healthcare Providers



2025 vaccine schedule available now



The vaccine schedules summarize final recommendations made official by CDC director



Optimized for tablets and smartphones

https://www.cdc.gov/vaccines/hcp/imz-schedules/app.html

# CDC VACCINE SCHEDULES APPLICATION FOR CLINICIANS AND OTHER IMMUNIZATION PROVIDERS





**Product Specs** 

Version: 12.3.0

Requirements: Requires iOS 11.0 or later and Android 5.1 or later;

optimized for tablets and useful on smartphones.

Updates: Changes in the app are released through app updates.

Download app free for iOS



Download app free for Android



https://www.cdc.gov/vaccines/hcp/imz-schedules/app.html

5

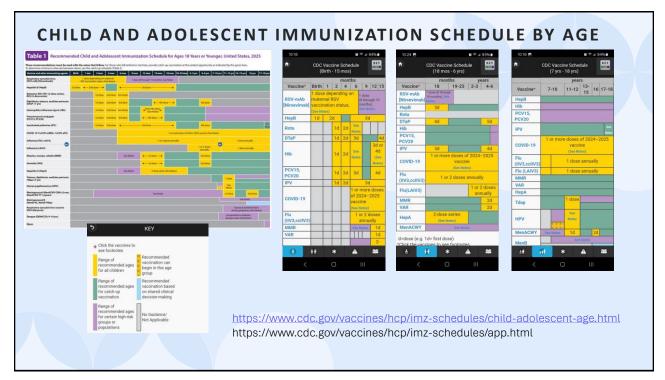
#### CDC VACCINE SCHEDULE APP MAIN MENU

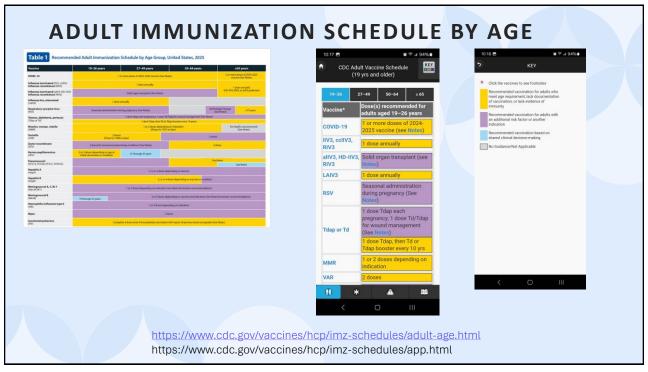


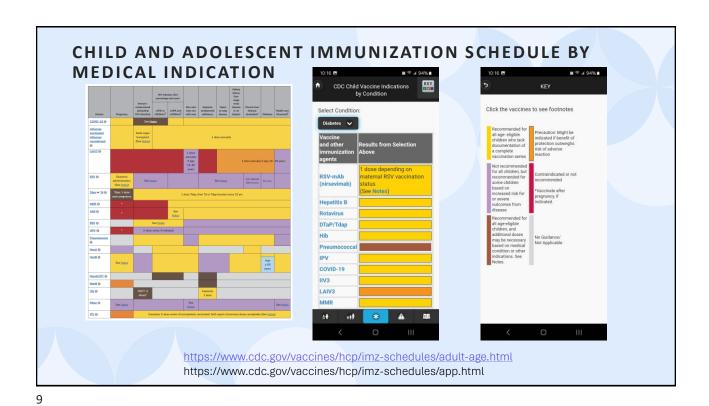
#### **MOBILE APP FEATURES**

- Child, Adolescent, Catch-up, and Adult schedules available
- Child & Adult recommendations by medical condition
- Hyperlinked vaccine name opens as a pop-up with dose specifics
- The app visually mimics the printed schedules
- · Contraindications
- Addendum (any new or updated recommendations since the last schedule publication)
- General Resources (links to CDC websites)
  - Travel vaccines, vaccine shortages & delays, and more

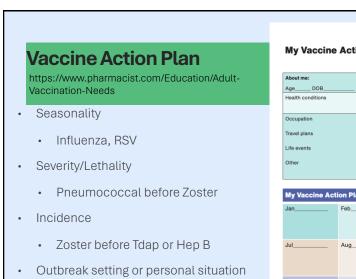
https://www.cdc.gov/vaccines/hcp/imz-schedules/app.html

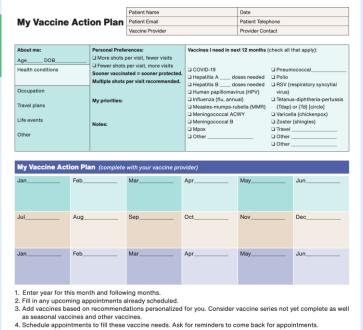






ADULT IMMUNIZATION SCHEDULE BY MEDICAL CONDITION CDC Adult Vaccine Indications by Condition Select Condition: COVID-19 IIV3 or RIV3 LAIV3 RSV 100 BMM 0 BMM Tdap or Td MMR VAR RZV HPV Menii () Hib () https://www.cdc.gov/vaccines/hcp/imz-schedules/adult-age.html https://www.cdc.gov/vaccines/hcp/imz-schedules/app.html





11

· COVID-19, Mpox

Multidose series

· Zoster, Hep B

#### PNEUMORECS VAXADVISOR APP

- PneumoRecs VaxAdvisor is a standalone application that provides patient-specific guidance consistent with the CDC's pneumococcal vaccination recommendations
- If you do not have a device that supports the app, you can access a web version when connected to the internet through a mobile device or computer
  - https://www2a.cdc.gov/vaccines/m/pneumo/pneumo.html



https://www.cdc.gov/pneumococcal/hcp/vaccine-recommendations/app.html

#### PNEUMORECS VAXADVISOR APP



- PneumoRecs VaxAdvisor mobile app helps easily determine which pneumococcal vaccines a patient needs and when. The app incorporates recommendations for all ages.
- Users enter:
  - · Patient's age
  - Specific underlying medical conditions
  - Patient's pneumococcal vaccination history
  - \*The app doesn't request or collect any personal identifying information. It also does not store any information.

13

#### **Pneumococcal vaccine History**

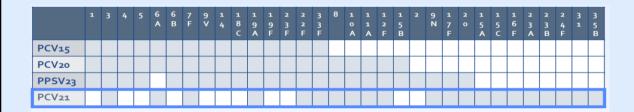
- First
- First Pneumococcal polysaccharide vaccine licensed for use in US
  - PPSV23 licensed
  - PCV7 licensed (First conjugate vaccine)
  - PCV13 licensed
  - PCV13 for adults w/ immunocompromising conditions in addition to PPSV23
  - PCV 13 for all adults over 65 years in addition to PPSV 23
  - PCV 15 & PCV 20 licensed and recommended for adults
  - PCV 21 licensed and recommended for adults

https://www.cdc.gov/vaccines/pubs/pinkbook/pneumo.html

https://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/pneumo.html

https://www.cdc.gov/mmwr/volumes/72/rr/rr7203a1.htm

#### **Adult Pneumococcal Vaccine Serotype Coverage**



Merck Inc. (2024). CAPVAXIVE® (Pneumococcal 21-vatent Conjugate Vaccine) Package Insert. Rahway, NJ.https://www.fda.gov/media/179426/download 
Pflicer. (2023). PREVINAR 20 Pneumococcal 20-vatent Conjugate Vaccine (Diphthesia CRNI197 Protein) Package Insert. Philadelphia. PR. https://www.fda.gov/media/15987/fdownload/28ttachment 
-Merck Inc. (2021). PREUMOVANE 20 pneumococcal vaccine, polyvatent, MSD SSI y Package Insert. Whitehouse Station, NJ. https://www.fda.gov/media/15987/fdownload/28ttachment 
-Merck Inc. (2021). PREUMOVANE 20 pneumococcal vaccine, polyvatent, MSD SSI y Package Insert. Whitehouse Station, NJ. https://www.fda.gov/media/15987/fdownload/28ttachment 
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-Merck Inc. (2021). PREUMOVANE 20 pneumococcal vaccine, polyvatent, MSD SSI y Package Insert. Whitehouse Station, NJ. https://www.fda.gov/media/15987/fdownload/28ttachment 
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-Merck Inc. (2021). PREUMOVANE 20 pneumococcal vaccine, polyvatent, MSD SSI y Package Insert. Whitehouse Station, NJ. https://www.fda.gov/media/15987/fdownload/28ttachment 
-MSD SSI Package Insert. Whitehouse Station 
-MSD SSI

Merck & Co., Inc. (2024). VAXNEUVANCE \*\*\* (Pneumococcal 15-valent Conjugate Vaccine) Package Insert. Rahway, NJ. https://www.merck.com/product/usa/oi\_circulars/v/vaxneuvance/vaxneuvance\_oi\_odf

15

#### Adults ≥50 years old Complete pneumococcal vaccine schedules Option A Prior vaccines PCV20 or PCV21 PCV15 PPSV231 PPSV23 only PCV20 or PCV21 ≥1 year at any age PCV13 only ≥1 year PCV20 or PCV21 at any age NO OPTION B PCV13 at any age & ≥5 years PCV20 or PCV21 PPSV23 at <65 vrs ^ Also applies to people who received PCV7 at any age and no other pneumococcal vaccines \*In PPSV23 is not available, PCV20 or PCV21 may be used \*In PPSV23 is not available, PCV20 or PCV21 may be used \*I oronsider minimum interval (8 weeks) for adults with an immunocompromising condition, cochlear implant, or cerebrospinal fluid leak (CSF) leak \*For adults with an immunocompromising condition, cochlear implant, or CSF leak, the minimum interval for PPSV23 is ≥8 weeks since last PCV13 dose and ≥5 years since last PSV23 dose, for others, the minimum interval for PPSV23 is ≥1 year since last PCV13 dose and ≥5 years since last PSV23 dose. Shared clinical decision-making for those who already completed the series with PCV13 and PPSV23 Together, with the patient, vaccine providers **may choose** to administer PCV20 or PCV21 to adults ≥65 years old who have already received PCV13 (but not PCV15, PCV20, or PCV21) at any age and PPSV23 at or after the age of 65 years old. Complete series: PCV13 at any age & PPSV23 at ≥65 yrs ≥5 years PCV20 or PCV21 https://www.cdc.gov/pneumococcal/downloads/Vaccine-Timing-Adults-JobAid.pdf https://www.cdc.gov/pneumococcal/hcp/vaccine-recommendations/app.html

#### PneumoRecs VaxAdvisor Example for a person over 50 years old







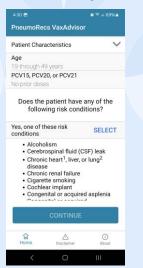
https://www.cdc.gov/pneumococcal/hcp/vaccine-recommendations/app.html

17









https://www.cdc.gov/pneumococcal/hcp/vaccine-recommendations/app.html

#### PneumoRecs VaxAdvisor Example for a person less than 19 years old

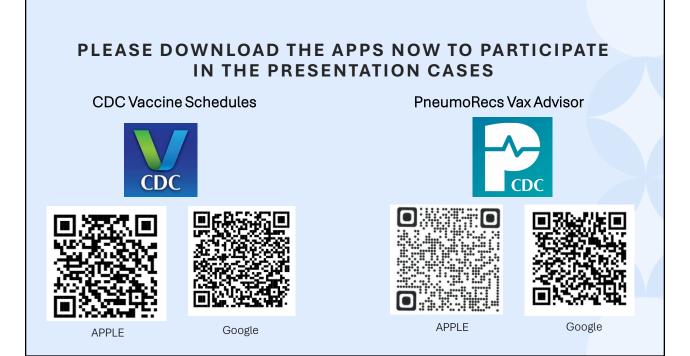






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19



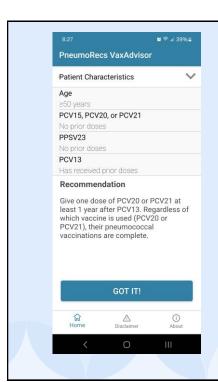
#### **CASE #1: PNEUMOCOCCAL**

LM is an 80-year old female admission to a skilled nursing facility after a hip fracture. The patient and family do not know whether PPSV23 has been administered. However, the Pennsylvania Immunization Electronic Registry System (PIERS) shows the patient did receive PCV13 six years ago.

PMH significant for T2DM, HTN, CKD stage 3b, osteoporosis, CHF

Is any pneumococcal vaccination recommended at this time?

21



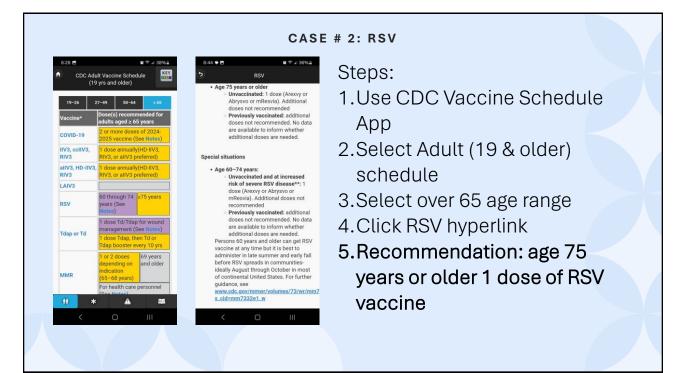
#### **CASE #1: PNEUMOCOCCAL**

- 1. Use PneumoRecs VaxAdvisor App
- 2. Select greater than 50 years of age
- 3. Select 'no' for has the patient ever received PCV15, PCV20, or PCV21
- Select 'no/unknown' for has the patient ever received PPSV23
- 5. Select 'yes' for has the patient ever received PCV13
- Recommendation: Give one dose of PCV 20 or PCV21 at least 1 year after PCV 13

#### CASE # 2: RSV

RV is a 78 year old male long-term care resident with a past medical history of COPD (30 pack year hx), T2DM, HTN, CKD stage 3a, MAFLD, and moderate cognitive impairment.

Is the RSV vaccine indicated for RV?



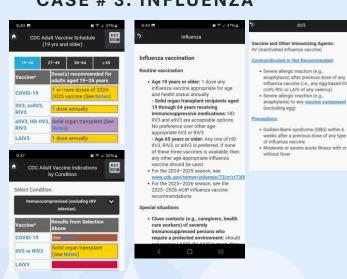
#### CASE # 3: INFLUENZA

JK is a 21-year-old female college student picking up at your pharmacy her Tacrolimus & Azathioprine that she takes to prevent rejection of her kidney transplant. It's the beginning of fall semester and she asks your recommendation for her flu shot this year. JK's profile states she has an egg allergy.

What is your influenza vaccine recommendation?

25

#### CASE # 3: INFLUENZA



#### Steps:

- 1. Use CDC Vaccine Schedule App
  - A. Option 1: Select Adult (19 & older) schedule
  - B. Option 2: Select adult condition schedule
    - A. Immunocompromised
- 2. Click Influenza vaccine hyperlinks
- 3. Select contraindications and check influenza vaccine
- 4. Recommendation: 1 dose of any age-appropriate influenza vaccine indicated. High dose is an acceptable option in immunocompromised setting. Egg allergy is not a contraindication.

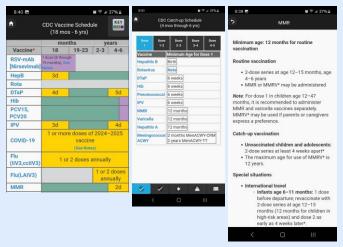
#### **CASE #4: MEASLES**

A mom calls into the family medicine clinic that is the PCP for her 3-year old daughter. Her daughter recently started preschool and she is concerned about the risk of measles due to an outbreak in the county. The 3-year old did not previously receive any doses of the MMR vaccine due to the family's vaccine hesitancy, but the mom would like the child to be vaccinated now.

Is the 3-year-old eligible for the MMR vaccine at this time?

27

#### **CASE #4: MEASLES**



#### Steps:

- 1. Use CDC Vaccine Schedule App
  - A. Option 1: Select child schedule
  - B. Option 2: Select catch-up schedule
- 2. Click MRR vaccine hyperlinks
- 3. Recommendation: 2-dose MMR series at least 4 weeks apart -Routine vaccination is 2-dose series at age 12-15 months and age 4-6 years, so could do first dose now and second dose in

the usual timeframe

## THANK YOU! QUESTIONS?



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