



Mountebanks...

Old Oxford Dictionary:

- A charlatan, a person who falsely claims knowledge of or skill in some matter, esp. for personal gain; a person who pretends to be something he or she is not, in order to gain prestige, fame, etc.
- An itinerant quack who from an elevated platform appealed to his audience by means of stories, tricks, juggling, and the like, in which he was often assisted by a professional clown or fool.
- Italian: monta inbanco
- Montare = to ascend or go up to a place,
- Banco = a bench ["To mount on a bench"]

www.oed.com/dictionary/mountebank_n (accessed 12/4/25) https://hilicantons.blogspot.com/2010/10/mountebank-class-take-two.html (accessed pulterproject.northwestern.edu/curations/c72-what-is-a-mountebank.html (accessed 12/4/25)

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Toady / Toadies...

Old Oxford Dictionary:

One who eats toads; originally the attendant of a charlatan, employed to eat or pretend to eat toads (held to be poisonous) to enable the charlatan to exhibit skill in expelling poison

figurative. A fawning flotterer, parasite, surphort

/www.oed.com/dictionary/toad-eater_n (accessed 12/4/25)

https://publierproject.northwestern.edu/customs/c72-what-is-a-mountebank.html (accessed 12/4/25)
https://www.amazon.com/Posterazzi-Mountebank-Engraving-English-Century/dp/B07C3DZMHM (accessed 12/4/

Pazdur's Sudden Exit Leaves Just

RFK Jr. to fire all members of the CDC's vaccine advisory committee

Mass layeth, resignations and major vascine policy charges: Therefore of human all CDC

THIS IS FINE.

THIS IS FINE.

Mountebanks, Grifters, Frauds, Toadies, Antivax Cranks, Charlatans...

Robert F. Kennedy, Jam O'Neill
Mis Secretary

Mary Beth Hoeg
Evelyn Griffin
Rattsef Levi
Robert Malone
Level Member
Red Levi
Robert Malone
Level Member
Red Memb

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Disclosures

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- · This activity may contain discussion of unlabeled/unapproved use of drugs.
 - The content and views presented in this educational program are those of the faculty and do not necessarily represent those of the University of Connecticut School of Pharmacy.
 - Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings

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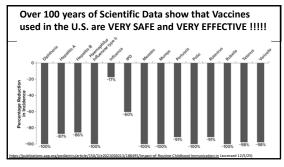
Learning Objectives

- At the conclusion of this CPE activity, participants should be able to:
 - Describe at least one important change (or proposed change) in childhood and adult vaccination recommendations put forth by the CDC and/or ACIP
 - Given a patient who inquires about receiving respiratory virus or bacteria vaccinations (e.g., Influenza, COVID-19, Respiratory Syncytial Virus (RSV), Pneumococcal), outline important differences between multiple products when they exist
 - Identify evidence-based pharmacotherapeutic treatments for common vaccine-preventable illnesses

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Pre-Test Time!

- The U.S. Dept. of HHS, the CDC, the FDA, and the Advisory Committee on Immunization Practices (ACIP) have been infiltrated by Mountebanks, Antivax Cranks, Grifters, Charlatans, & Toadies...
- $\bullet \quad \text{Which $\underline{\text{ONE}}$ of the following is $\underline{\text{NOT}}$ a recommendation that has been APPROVED by ACIP in $2025?}$
- a) All adults receive seasonal influenza vaccines only in single dose formulations that are free of thimerosal as a preservative
- b) State and local jurisdictions should require a prescription for the administration of a COVID-19 vaccination
- c) COVID-19 Vaccination should be based on individual-based decision-making (Shared Clinical Decision Making) for Adults 65 and older
- d) Universal Hepatitis B Vaccination at birth is no longer recommended for all newborns
- e) For Hepatitis B vaccination, post-vaccine serology results should determine need for subsequent doses (in the 3-dose series)



Morbidity and Mortality Weekly Report (MMWR)

Measles Update — United States, January 1—April 17, 2025

Weekly/April 24. 2025 / 74(14):232-238

Summary

What is already known about this topic?

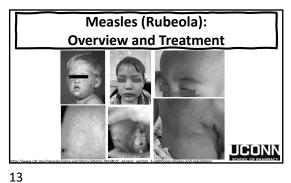
Although measles was declared eliminated in the United States in 2000, large outbreaks with 50 or more cases have become more frequent, especially in close-knit communities with low vaccination coverage.

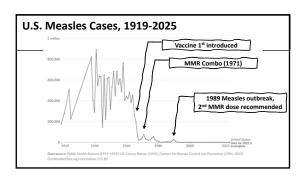
What is added by this report?

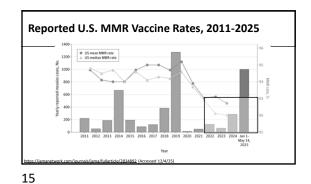
During January 1-April 17, 2025 a total of 600 measles cases were reported in the United States, the second highest annual case court in 25 years, 82% were associated with an ongoing outbreak in close knit communities with low vaccination coverage in New Mexico, Oklahoma, and Tozas. Egitty, five (11%) patients were hospitalized, and three have dead.

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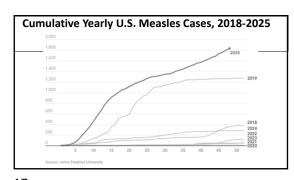


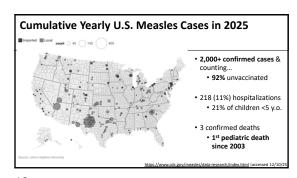


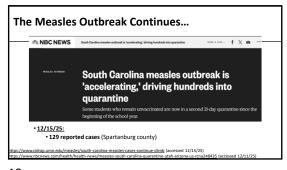


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U.S. Community Immunization Thresholds for **Common Vaccine-Preventable Illnesses** United States Community Immunity Thresholds (CIT)s
• CIT Threshold • US Immunization Rate









Measles: Key Facts

- HIGHLY CONTAGIOUS (~90% infection following exposure if susceptible)
- Airborne, person-to-person contact

- Infection course: Prodrome phase → Exanthem phase → Recovery/Immunity

- Contagious ± 5 days relative to rash appearance

- Complications (30% of cases):
- Immunosuppression / Secondary infections
- Diarrhea
- Pneumonia
- Encephalitis, Acute disseminated encephalomyelitis (ADEM)

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19 20

Treatment of Measles

- No approved antiviral therapies
 - Ribavirin ???
- Supportive care:
 - Antipyretics
 - Fluids/Nutrition
 - Monitoring, diagnosis, & treatment of 2° infections
- Vitamin A therapy ???
- Chin-Ups at Airports???



Measles Treatment:	Vita	ami	n Aî	?	
Serum Vitamin A levels ↓ during measles infection	on				
Pre-existing deficiency ± malnutrition w/ acute Possible delayed recovery, ↑ pneumonia mr Xerophthalmia → Corneal dryness, conjun	ortality ctival ker		on	ale:	
 Barclay, et al. (BMJ 1987;294(6567):294.) 	10001 100	No of childs		No (%)	h. f.d
180 hospitalized children in rural Tanzania 90% with low serum Vit. A	Age (months)	Given vitamin A	Controls	Given vitamin A	Controls
 Vit. A (200,000 IU) orally x 2 doses 	<9 9-11	14 12	9 10	1.60	2 (22) 2 (20) 3 (11)
• ↓ mortality in < 2 y.o. (1/46 vs. 7/42)	24-35 36-47 48-59 3-60	11 11 8 12	16 13 6 15	3 (27) 1 (9) 1 (13)	2(13) 1 (8) 2(13)
https://pubmed.ncbi.nlm.nih.gov/3101849/	Total	. 18	92	6 (7)	12 (13)

| New York Controlled Trial of Vistamin A in Children with Measine, According to Table A

22 23 24

Measles Treatment: Vitamin A?

- · Cochrane Systematic Review (2005):
 - "To determine whether vitamin A, commenced after measles has been diagnosed, prevents mortality, pneumonia or other complications in children."
- 8 studies (2574 participants) from 1932-1999, 6 blinded
 - Africa (n=6), Japan (n=1), England (n=1)
 - · Generally heterogeneous studies

https://pmc.ncbi.nlm.nih.gov/articles/PMC7076287/

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Measles Treatment: Vitamin A?

- · Cochrane Systematic Review (2005):
 - · Pooled results from 7 high-quality studies:
 - No significant effect on mortality (RR 0.83, CI 0.51-1.34)
 - · Results from 3 high-quality studies in hospitalized children in high case-fatality areas:
 - Significant 64%
 ↓ in mortality (RR 0.40, CI 0.19-0.87)
 - Driven by 83%

 mortality in children < 2 y.o (RR 0.21, Cl 0.07-0.66)

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Measles Treatment:

Vitamin A:

CDC Recommendations

- "...does not prevent measles and is not a substitute for vaccination."
- "...may be administered to infants and children in the United States with measles under the supervision of a healthcare provider as part of supportive management."
- "...it should be administered immediately upon diagnosis and repeated the next day for a total of 2 doses."
 - 50,000 IU for infants younger than 6 months of age
 - 100,000 IU for infants 6–11 months of age
 - 200,000 IU for children 12 months of age and older

https://www.cdc.gov/measles/media/pdfs/2025/05/hcp-caring-for-patients-measles-fact-sheet.pdf

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Measles Treatment: **CDC Recommendations**

- Ribavirin:
 - . "...demonstrates in vitro activity against measles virus."
 - · "While ribavirin has been used to treat patients with severe measles disease or severely immunocompromising conditions, clinical data are lacking regarding its efficacy."
 - "...is not approved by the U.S. Food and Drug Administration (FDA) to treat measles."

ps://www.cdc.gov/measles/media/pdfs/2025/05/hcp-caring-for-patients-measles-fact-sheet.g

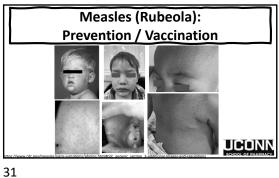
Measles Treatment: CDC Recommendations

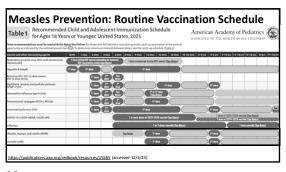
- Antibiotics:
 - "There is no evidence to support routine use of antibiotics for measles treatment."
 - "Measles may be complicated by secondary bacterial infections for which antibiotic treatment is indicated."

ps://www.cdc.gov/measles/media/pdfs/2025/05/hcp-caring-for-patients-measles-fact-sh

Measles Treatment: CDC Recommendations

- - "Infected people should be isolated for 4 days after they develop a rash; airborne precautions should be followed in healthcare settings."
- Vaccination:
 - · "MMR vaccination is the best way to prevent measles and its complications."
 - "People exposed to measles may be eligible for post-exposure prophylaxis with MMR vaccine within 72 hours (or immunoglobulin within 6 days)"





Measles Prevention: Vaccine Products

- MMR [Measles-Mumps-Rubella]:
- M-M-R II[®]
- PRIORIX®
- MMRV [Measles-Mumps-Rubella-Varicella]:
 - ProQuad®

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• ALL are FDA-approved for use in children 12 months – 12 years of age

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Measles Prevention: CDC Recommendations (before Oct. 2025) Routine Vaccination Recommendations to Protect against Measles Children CDC recommends two doses of measles-containing vaccine routinely for children, starting with the first dose at age 12 through 15 months and the second dose at age 4 through 6 years before school entry. This can be administered as MMR or MMRV socine. Children an receive the second dose of MMR vaccine earlier than 4 through 6 years, as long as it is at least 28 days after the first dose. A second dose of MMRV vaccine can be given 3 months after the first dose up to 12 years of age. CC recommends that separate MMR and varicella vaccines be given for the first dose in children aged 12–47 months however, MMRV may be used if parents or caregivers express a preference

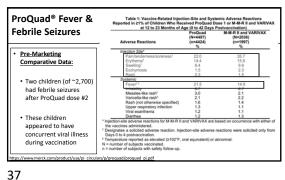
Measles Prevention – ACI Recommendations to CDO	· ·
9/18/2025 ACIP Meeting:	
Voted (8-for, 3-against, 1-abstain) to REM months old	OVE the option to use MMRV in children 12-47
	Dr. Martin Kulldorff (ACIP Chair) read the following proposed ACIP voting language for MMRV vaccines into the record:
Hillary Blackburn, PharmD, M.B.A.	The pedatric vaccine schedule should be updated to reflect the following change: For measles, murpo, schedia and varional vaccines given before age 4 years, the combined MMRV vaccine is not recommendedChildren in this age group should recove separate measles, murpo, and rubelia vaccine and variotels vaccine (MMRV).
Director of Medication Access and Affordability, AscensionRx, Term: 9/11/2025-6/30/2029	Motion-Vote: MMRV Vaccines
Hillary Blackborn, PharmD, M.B.A., leads initiatives to optimize medication access for underserved populations and improve affordability in value-based care. The previously served as Chief Thromago Offices at the Diogenerary of Hong, overseing formularly and research tracting. The is also a teader in professional pharmacy expression, host of the "Table to but Pharmacop podates, and author of Hone Pharmacopt Lead".	Or, Levi motioned the approve the recommender wings largeage, stating. The pedant's counce standards and various the updated to reflect the following change: If an impaties, murrays, clother and various socious given before age 4 years, the combined control of the pedant of the combined of the combine
Hilary Blackburn, a phermacist based in St. Louis, Missouri, Die is the daughter in Lee of Republican Tennessee Servatur Marsha Blackburn	8 Fevered: Pagano, Mihoan, Stein, Griffer, Poliak, Pebaworth, Levi, Kuldorff 3 Opposed: Blackburg, Hobeln, Meisener 1 Abstance, Maine

Measles Prevention – ACIP Changes its Recommendations to CDC for Routine Vaccination

- 9/18/2025 ACIP Meeting:
 - Voted (8-for, 3-against, 1-abstain) to REMOVE the option to use MMRV in children 12-47 months old
- Why?????
- Original CDC recommendations (from 2009 ACIP) based off slightly higher risks of fevers/febrile seizures for MMRV vs. separately-administered doses of MMR & VARIVAX [evaluated at 5 & 12 days]...
- ~1 extra febrile seizure for every 2,300-2,600 administered MMRV doses
- No significant new scientific data presented at Sept. 2025 ACIP meeting...

https://www.cidrap.umn.edu/childhood-vaccines/new-cdc-advisers-scale-back-recommendations-mmrv-vaccine-young-kids (accessed 12/5/25) https://www.cdc.gov/vaccines/vpd/mmr/hcp/vacopt-faqs-hcp.html (accessed 12/5/25)

34 35 36



ProQuad® Fever & Febrile Seizures · Post-Marketing Observational Safety Surveillance Study: · Age-, gender-, and date-of-vaccination- (day and month) matched subjects Given M-M-R II and VARIVAX concomitantly • Differences only observed following Dose #1 within the 5-12d evaluation range: Table 11: Confirmed Febrile Seizures Days 5 to 12 and 0 to 30 After Vaccination with ProQuad (dose 1) Compared to le Sezures Days 5 to 12 and 0 to 30 After Vascination with ProGuad (oose 1) Com-cination with M-RFI land VAR/VAX (does 1) in Children 12 to 60 Months of Age ProGuad cohort MMR-V cohort Relative risk (95% Cl) (N=1,289) (N=1,28

Measles Prevention - ACIP Changes its Recommendations to CDC for Routine Vaccination

· What does this mean practically???

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- · CDC adopted the ACIP recommendations on 10/6/25
- Two separate injections now required for the first MMR / Varicella vaccinations...
- MMRV may not be covered for children under 4 y.o. in the Vaccines for Children
 - But...only ~15% of parents opt to use MMRV for the 12-15 month dose
- State Medicaid programs & Private Insurers may still choose to cover MMRV

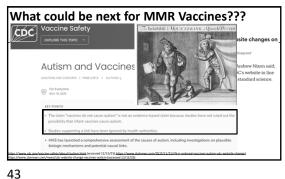
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Measles Prevention: Outbreak Situations

- 2022 ACIP Recommendations:
 - · General recommendation:
 - Infants aged 6-11 months should receive a single dose of MMR
 - Post-Exposure prophylaxis ("PEP"):
 - . Unvaccinated persons should receive 1 dose of MMR within 72 hours of exposure to a person with infectious measles
 - Complete the 2-dose MMR series ≥ 28 days later
 - Product labelling "Fascinoma":
 - M-M-R II use in measles PEP is "ON-label"
 - . PRIORIX® use in measles PEP is "OFF-label"







December 5, 2025: **Changes in ACIP Hepatitis B Vaccination Recommendations**

UCONN

12/5/25 ACIP Meeting Addressing Universal **Hepatitis B Vaccine Birth-Dose for Infants**

- For infants born to HBsAg-negative women:
- ACIP recommends individual-based decision-making, in consultation with a health care provider, for parents deciding when or if to give the HBV vaccine, including the birth dose. (1) For those not receiving the HBV birth dose, it is suggested that the initial dose is administered no earlier than 2 months of age. Y/N
 - (1) Parents and health care providers should consider vaccine benefits, vaccine risks, and infection risks. Parents and health care providers should also consider whether there are risks, for example, such as a household member is HBsAg-positive or when there is frequent contact with persons who have emigrated from areas where Hepatitis B is common.

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Results of the 12/5/25 ACIP Meeting & Vote Details

- Vote #2:
 - · When evaluating the need for a subsequent HBV vaccine dose in children, parents should consult with health care providers to determine if a post-vaccination anti-HBs serology testing should be offered. Serology results should determine whether the established protective anti-HBs titer threshold of ≥10 mIU/mL has been achieved. The cost of this testing should be covered by insurance. Y/N

Hepatitis B Infection: Key Facts

- · Incurable viral infection
- · Transmitted through blood & various body fluids
- High risk for perinatal transmission (up to 90%)
- · Can survive on surfaces for weeks
- ~90% of infants infected with HepB will develop chronic infection
- · Chronic infection leads to:
 - · Liver cirrhosis, hepatocellular carcinoma, death

Hepatitis B Prevention: Routine Vaccination Schedule Recommended Child and Adolescent Immunization Schedule for Ages 18 Years or Younger, United States, 2025

Hepatitis B Prevention: Vaccine Products

- · Recombivax HB (1986)
- Engerix-B (1989)
- Protective antibody responses [anti-Hbs > 10 mIU/mL]:
 - ~25% after 1st dose
 - ~63% after 2nd dose
 - ~95% after 3rd (final) dose

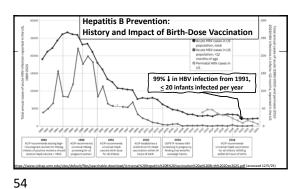
ACIP hepatitis B screening recor perinatal postexposure recom			
Recommendation	Current?	Date of Initial Recommendation	Date Recommendation Superseded or Modified
Perinatal strategies			
Screening and testing for pregnant women			
Universal HBsAg screening in first trimester	Yes	1988¹	
Test for HBsAg later in pregnancy for risk behaviors or acute hepatitis	Yes	19881	
Test for HBsAg at delivery if status is unknown	Yes	1988 ¹	

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ntion:	History and	Progress
Current?	Date of Initial Recommendation	Date Recommendation Superseded or Modified
No	19914	20185
Yes	20185	
	Current?	Current? Recommendation No 1991 ⁴

For 2 decades , ACIP has recommended	that the firs	st dose of universa	al infant hepatitis
vaccination among infants born to HBs	Ag(-) womer	n occur close to bi	rth:
ACIP hepatitis B infant vaccination	n recommen	ndations, United S	tates
•	_		Date
			Recommendation
Recommendation	Current?	Date of Initial Recommendation	Superseded or Modified
Recommendation Infant vaccination strategies	Current?		Superseded or
***************************************	Current?		Superseded or
Infant vaccination strategies Universal HepB vaccine before leaving the birth		Recommendation	Superseded or Modified



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Why is it important to continue Universal Birth Dose HepB Vaccination?

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HBV infections are missed among some pregnant women and can result in catastrophic outcomes.

Reasons for Gaps in Post-Exposure Prophylaxis
Prophylaxis
No prenatal care

Geps in prenatal acre

Geps in prenatal infer was found to be HBLA-positive at the first of the growth of the state of th

Unvaccinated infants remain at risk of non-perinatal HBV acquisition.

- HBV transmission occurs through percutaneous or mucosal exposure to infectious blood or body fluids
- HBV can remain viable for over 7 days on environmental surfaces at room temperature.1

Household and Community Transmission: Unvaccinated children living with a person with chronic HBV infection in a household or community setting are at risk for becoming infected.

- Prior to Hep8 BD, some U.S.-born children born to immigrant mothers without HBV infection had hepatiti B revealenges of 7.5 11/62-3 fethion able to communition to brussheld servisives.

In the United States, up to 2.4 M people are estimated to have hepatitis B⁴, and about **50% of** people with hepatitis B are unaware of their infection⁵.

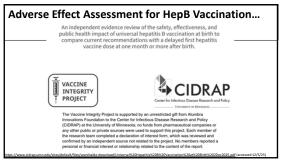
Children who receive HepB BD have higher rates of hepatitis B childhood vaccine series completion and had a positive impact on rates of being up to date for other age-appropriat vaccines ^{57,8} vaccines ^{57,8}

tps://journals.sagepub.com/doi/10.1177/00333549231175548 (accessed 12/5/25) tps://www.cdc.gov/acip/downloads/slides-2025-09-18-19/02-langer-hep-b-508.pdf (

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Rescinding Universal HepB BD vaccination recommendations among infants born to HBsAg (-) women may result in more cases of perinatal HBV infection.

Potential fisks of Rescinding Universal HepB BD Recommendations
Increased cases of perinatal HBV transmission
Increased administrative complexity and failure points for providers and health systems
Lack of safety net given gaps in access to prenatal care, HBV screening, and HBIG access
Disproportionate harm to patients without insurance or tow healthcare engagement
Lower rates of hepatitis B childhood vaccine series completion
Hijher lifetime healthcare costs from missed opportunities to prevent and diminate hepatitis B



Adverse Effect Assessment for HepB Vaccination...

Safety of the hepatitis B birth dose

Results of randomized trials, large national safety monitoring programs, and long-term follow-up studies consistently demonstrate that the hepatitis B vaccine is safe regardless of vaccine timing. No safety benefits were identified for a delayed first dose versus vaccination at birth.

- Key Summary Findings:
- Mild-to-moderate short-term reactions:
- tenderness, redness and swelling at the injection site, fussiness, transient low-grade fever
- No increased incidence of long-term AEs, SAEs, deaths:
 - "...rare deaths following hepatitis B vaccination at birth have been extensively studied and found not to be causally associated with vaccination."
- 4 studies directly compared safety for birth dose and delayed dose:
 - "...no increased risk of any short- or long-term AE or SAE in infants administered the vaccine at birth compared with delayed administration."

tps://www.cidrap.umn.edu/sites/default/files/searchable-download/Universal%20Hepatitis%208%20Vaccination%20at%20Birth%202Dec2025.pdf (accessed 12/5/25)

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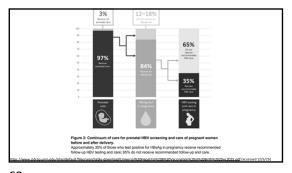
Adverse Effect Assessment for HepB Vaccination...

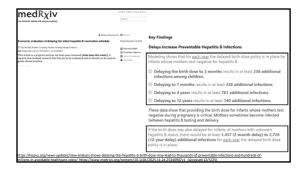
Key Findings:

Safety of the hepatitis B birth dose

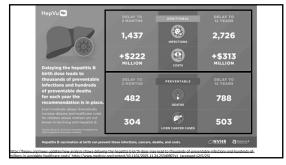
Results of randomized trials, large national safety monitoring programs, and long-term follow-up studies consistently demonstrate that the hepatitis B vaccine is safe regardless of vaccine timing. No safety benefits were identified for a delayed first dose versus vaccination at birth.

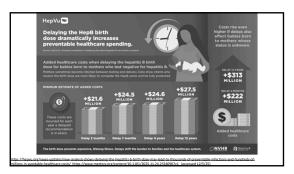
This review found no benefit related to vaccine safety or protection of a delayed first dose compared with vaccination at birth, but identified critical risks of changing current US recommendations.

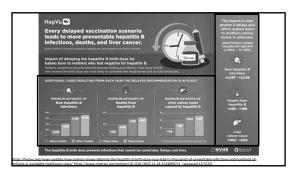




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Results of the 12/5/25 ACIP Meeting & Vote Details

Vote #1:

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- For infants born to HBsAg-negative women:
 - ACIP recommends individual-based decision-making, in consultation with a health care
 provider, for parents deciding when or if to give the HBV vaccine, including the birth dose. (1)
 For those not receiving the HBV birth dose, it is suggested that the initial dose is administered
 no earlier than 2 months of age. Y/N
 - (1) Parents and health care providers should consider vaccine benefits, vaccine risks, and infection
 risks. Parents and health care providers should also consider whether there are risks, for example,
 such as a household member is HBsAg-positive or when there is frequent contact with persons who
 have emigrated from areas where Hepatitis is common.
- Vote Results:
 - 8-Yes (Dr. Catherine Stein, Dr. Retsef Levi, Dr. Vicky Pebsworth, Dr. Robert Malone,
 Dr. Hillary Blackburn, Dr. James Pagano, Dr. Evelyn Griffin and Dr. Kirk Milhoan)
 - 3-No (Dr. Cody Meissner, Dr. Joseph Hibbeln and Dr. Raymond Pollak)

tps://www.cnn.com/health/live-news/cdc-vaccine-meeting-hepatitis-b-12-05-25 (accessed 12/5/25)

Results of the 12/5/25 ACIP Meeting & Vote Details

Vote #2:

68

- When evaluating the need for a subsequent HBV vaccine dose in children, parents
 should consult with health care providers to determine if a post-vaccination anti-HBs
 serology testing should be offered. Serology results should determine whether the
 established protective anti-HBs titer threshold of ≥10 mIU/mL has been achieved. The
 cost of this testing should be covered by insurance. Y/N
- Vote Results:
- 6-Yes (Dr. Retsef Levi, Dr. Vicky Pebsworth, Dr. Robert Malone, Dr. James Pagano, Dr. Evelyn Griffin and Dr. Kirk Milhoan)
- 4-No (Dr. Cody Meissner, Dr. Joseph Hibbeln, Dr. Raymond Pollak and Dr. Hillary Blackburn)
- 1-Abstained (Dr. Catherine Stein)

Post ACIP-Meeting Responses from Healthcare Organizations,
Policy-Makers, & State/Local Health Departments

American Academy of Pediatrics

This irresponsible and prevention to downgrade its recommendations to protect infants from hepatitis B is a dangerous move that will harm children, according to the American Academy of Pediatrics

This irresponsible and purposely misleading guidance will lead to more hepatitis B infections in infants and children. Said American Academy of Pediatrics President Susan J. Kressly, MD, FAAR "I want to reassure parents busy. Increase or protected in events in the support of the events of the parents of the pa

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Post ACIP-Meeting Responses from Healthcare Organizations,

Governors Denounce ACIP Recommendation on Hepatitis B Vaccination, Reaffirm Commitment to Strong, Evidence-Based Childhood Vaccination Programs

vs://www.govsforhealth.org/rews/govs-acip-hepb-2/. (accessed 12/14/25)
vs://portal.ct.gov/dph/newstoom/press-releases--2005/dph-reaffirms-hepatitis-b-vaccine-for-bables. (accessed 12/14/25)
vs://cs.com/Relons/MD/status/200088871828746665 (accessed 12/16/25)

Selection of Vaccines against Respiratory Viruses (Influenza & COVID-19)



Case Example: Seasonal Influenza Vaccine

- A 70-year-old male (he/him) comes to the consultation window of your pharmacy
 - He would like to receive a vaccination for the Flu
 - His only chronic health issues are hypertension and hypercholesterolemia (both effectively managed)
- Which of the following products would be PREFERRED to administer to this patient?
 - a) Inactivated influenza vaccine (IIV3, Afluria)
 - b) High-dose inactivated influenza vaccine (HD-IIV3, Fluzone High-Dose)
- c) Adjuvanted inactivated influenza vaccine (alIV3, Fluad)
- d) Live Attenuated Influenza Vaccine (LAIV3, FluMist)

70 71 72

Selection of Influenza Vaccines

- Main patient considerations for selection of product [not exhaustive list]:
 - Age (above/below 65 y.o.)
 - Immunosuppression / Receipt of Immunosuppressive medications
 - Pregnancy status
 - · Allergic reaction to previous Influenza vaccinations

https://www.cdc.gov/flu/hcp/acip/index.html

Selection of Influenza Vaccines

Influenza Vaccine Selection

Available vaccines, approved ages, and dose volumes are listed in Table 1.

ACIP recommends all recipients receive seasonal influenza vaccines only in single dose formulations that are free of thimerosal as a preservative (Table 1).

All persons should receive an age-appropriate vaccine, with the exception that solid organ transplant recipients aged 18 through 64 years who are receiving immunosuppressive medication regimens may receive HO-IIV3 or alIV3 as acceptable options (see Immunocompromised Persons).

With the exception of Adults Aged 365 Years, for whom HO-IIV3, RIV3, and alIV3 are preferred (see below), there are no preferences for any specific vaccine when more than one age-appropriate product is available.

Selection of Influenza Vaccines

Adults Aged 265 Years

ACIP recommends that adults aged 265 years preferentially receive any one of the following:

High-dose inactivated influenza vaccine (RIV3, Flublok), or

Recombinant influenza vaccine (RIV3, Flublok), or

Adjuvanted inactivated influenza vaccine (RIV3, Flublok), or

Adjuvanted inactivated influenza vaccine (RIV3, Flublok), or

Adjuvanted influenza vaccine should be used.

If none of these three vaccines is available at a vaccination opportunity, then any other age-appropriate influenza vaccine should be used.

Data support greater potential benefit of high-dose inactivated, adjuvanted inactivated, or recombinant vaccines relative to standard-dose unadjuvanted IIVs in this age group, with the jemost data available for HD-IIV3 but comparisons of these vaccines with one another are limited.

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Selection of Influenza Vaccines Updates for the 2025-2026 Flu Season New ACIP recommendation (6/26/25) ***NOTES***: pregnant women, and adults with only single-dose formulations of flu vaccine that are • In the U.S., <_5% of all administered flu vaccine doses in recent flu seasons were from In September 2024, the FDA approved FluMist, the live atten multi-dose vials containing thimerosal ons to update the composition of 2025-2026 U.S. influenza vaccines. In March 2025, the FDA approved FluBlioi, the recombinant influenza vaccine for use in people ages 9 and older. Previously this vaccine was approved for ages 18 years and older. There are NO DATA / NO NEW DATA indicating that thimerosal as used in contemporary vaccines presents any significant harm...

Case Example:
Seasonal Influenza Vaccine

- A 70-year-old male (he/him) comes to the consultation window of your pharmacy
- He would like to receive a vaccination for the Flu
- His only chronic health issues are hypertension and hypercholesterolemia (both effectively managed)

- Which of the following products would be PREFERRED to administer to this patient?

a) Inactivated influenza vaccine (IIV3, Afluria)

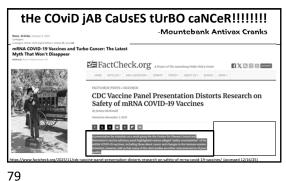
b) High-dose inactivated influenza vaccine (HD-IIV3, Fluzone High-Dose)

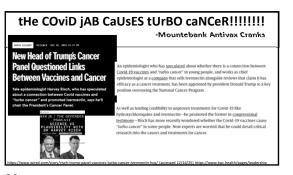
c) Adjuvanted inactivated influenza vaccine (alIV3, FluMist)

COVID-19 Vaccination

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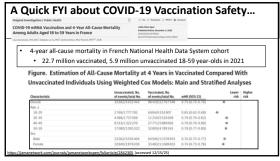






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A Quick FYI about COVID-19 Vaccination Safety...

Original resignation factor result

Original resignation for the country

Among Addits Aged 18 to 99 Parts in France

Table 3. RI of Short-Term Mortality, All Causes, by Cancer, External Causes, Circulatory Diseases, and COVID-19, Within 6 Months Following Vaccination, Using Adapted SCCS Models*

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Cause of death, RI (95% CI)

Risk windows*

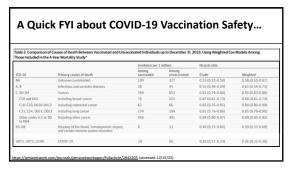
All -cause Tamon Girculatory

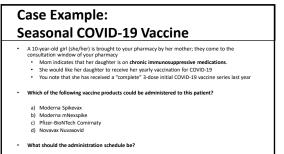
Since Affect dose 1 0.65 (0.63-0.67) 0.71 (0.67-0.76) 0.63 (0.57-0.71) 0.63 (0.58-0.68) 0.73 (0.59-0.91) 0.65 (0.61-0.79) 0.74 (0.66-0.38) 0.78 (0.71-0.68) 0.29 (0.22-0.35) 0.65 (0.62-0.76) 0.74 (0.66-0.38) 0.78 (0.71-0.79) 0.40 (0.01-0.72) 0.39 (0.32-0.47) Abbreviations, RI, relative incidence, SCCS, Self-controlled cause series.

**Interest/Januarentee/controll/Januarentee/cont

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Two quick and important side-notes before continuing with the case...

PHARMACY PRACTICE NEWS

OCTOBER 17, 2015

ACIP Pharmacist Helps Defeat
COVID Vaccine Rx Plan

By Gias Shaw
Hilley & Blackburn, Pharm), the first pharmacist voting member of the CDC's Advisory Committee on Immunization Practices (ACIP)—a position that pharmacy leaders had advocated for—wasted no time in making her mark on the committee.

Participating in her first ACIP meeting on Sept. 19, just days after being named to the committee by Health and Human Services Secretary Robert F. Kennedy Jr., 6r. Blackburn was a leading voice in opposition to a proposal that would have required pracerpions for COUNT-9 1 syzacops. The measure ultimately leaded by the narrowest of margins, in a 6-5 fee.

Hereta / Incommittee in the Prace Public Health Article (18) 3-7 than market Blackburn CCC-Robe ACIP/TRISI (Accessed 17/10/75)

Hereta / Incommittee in the Prace Public Health Article (18) 3-7 than market Blackburn CCC-Robe ACIP/TRISI (Accessed 17/10/75)

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Two quick and important side-notes before continuing with the case...

PHARMACY PRACTICE NEWS

SCTOME - CLINICAL - BOUGLAUSE COMPENDEDS - EDUCATION - VIGEO SUPPLIANTS - RABGERE - CONTACT - Q

Thermacists are licensed healthcare professionals, ... one of the only clinician types to complete a stand-alone national immunization delivery certificate; said Dr. Blackburn, the director of medication access and affordability at Ascension, In Nashville, Term [According to claims data for the 2022-2025 season, 9%) of COVID-19 vaccines were given at pharmacies: 27,569,515 doses out of 30,775,189. Requiring a prescription would create barriers for patients and risk deterring people who seek vaccination.*

Selection of COVID-19 Vaccines

 Main patient considerations for selection of product and administration schedule [*not an exhaustive list]:

Age

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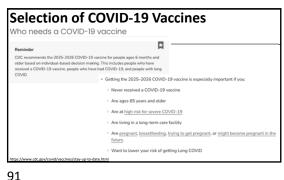
• Immunosuppression / Receipt of Immunosuppressive medications

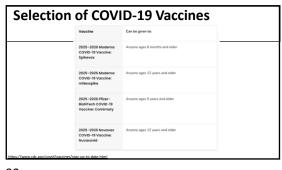
Risk of Severe COVID-19 infection

Pregnancy

https://www.cdc.gov/covid/hcp/vaccine-considerations/index.html#toc

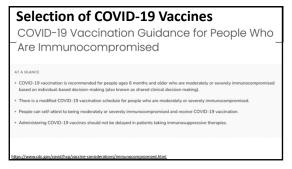
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1 92 93

Case Example: Seasonal COVID-19 Vaccine A 10-year-old girl (she/her) is brought to your pharmacy by her mother; they come to the consultation window of your pharmacy Mom indicates that her daughter is on chronic immunosuppressive medications. She would like her to receive her yearly vaccination for COVID-19 You note that she has received a "complete" 3-dose initial COVID-19 vaccine series last year Which of the following vaccine products could be administered to this patient? Moderna Spikevax Moderna Spikevax Moderna mivespike Pitzer-BioNiech Comirmaty Novavas Nuvaxovid What should the administration schedule be?



Selection of COVID-19 Vaccines

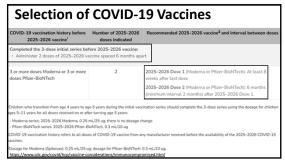
Table 2: 2025–2026 COVID-19 vaccination
schedule for people who are moderately
or severely immunocompromised,
November 4, 2025
2b: Ages 5-11 years

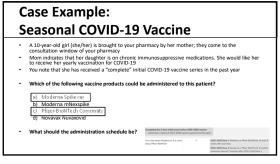
NOTE

Moderna (Spikevax) and Pfizer-BioNTech vaccines are approved for this age group. In
Table 2b, Moderna refers to Spikevax.

See footnote* for guidance on children who transition from age 4 years to age 5 years
during the initial vaccination series.

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Post-Test Time!

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- The U.S. Dept. of HHS, the CDC, the FDA, and the Advisory Committee on Immunization Practices (ACIP) have been infiltrated by Mountebanks, Antivax Cranks, Grifters, Charlatans, & Toadies...
- Which ONE of the following is NOT a recommendation that has been APPROVED by ACIP in 2025?
 - a) All adults receive seasonal influenza vaccines only in single dose formulations that are free of thimerosal as a preservative

- COVID-19 Vaccination should be based on individual-based decision-making (Shared Clinical Decision Making) for Adults 65 and older
- Universal Hepatitis B Vaccination at birth is no longer recommended for all newborns
- For Hepatitis B vaccination, post-vaccine serology results should determine need for subsequent doses (in the 3-dose series)

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Conclusions, Final Thoughts, and Personal Expert Opinions...

- Based on what appear to be "vibes", the current group of Mountebanks at HHS, FDA, CDC, ACIP have initiated a dangerous erosion of logical U.S. public health policies that had been based on decades of high-quality scientific evidence
- In the very near future, it is very likely that we will have to start suboptimally treating various vaccine-preventable infectious diseases that were once considered "eradicated" or "rare" in the U.S.
- We as Pharmacists can play an important and significant role in:
 - The "Shared Decision Making" for Influenza and COVID-19 vaccination for patients Countering medical and pharmaceutical misinformation currently emanating from once-respected and trusted U.S. Government Health Agencies

Conclusions, Final Thoughts, and Personal Expert Opinions...

Vaccine RCT spreadsheet aims to show the data, dispel myths about vaccines

- "Living Google Document" developed/maintained by Dr. Jake Scott (Infectious Diseases MD @ Stanford U.)
 - List and summary of ALL RCTs ever conducted for licensed vaccines

https://docs.google.com/spreadsheets/u/0/d/1bX4SAJwMUufNAkBplhKHOle4 gdI0BeRhpAXM5hpfV Y/htmlview?pli=1#gid=0

Thank you!!!

• Questions???

SESSION CODE:

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