



philadelphia
immunization
coalition



Department of
Public Health
CITY OF PHILADELPHIA

PHILADELPHIA IMMUNIZATION COALITION SPRING 2022 CONFERENCE

May 11, 2022
Philadelphia College of Physicians

AGENDA

Welcome Introduction	9:15am-9:25am
Motivational Welcome	9:25am-9:40am
Philadelphia’s COVID Vaccine Journey and Looking Forward	9:40am-10:10am
10 Minute Break	10:10am–10:20am
Why Meningitis B Vaccine Matters	10:20am-11:00am
Vaccines and Schools: Looking Back to Look Forward	11:00am-12:00pm
Lunch	12:00pm – 1:00pm
Re-establishing Vaccine Coverage Post COVID-19	1:00pm-1:30pm
Stories from the Frontlines	1:30pm-2:00pm
Vaccine Equity: Panel	2:00pm-3:00pm
Closing Remarks	3:00pm-3:30pm



Motivational Welcome

Dr. Cheryl Bettigole, MD, MPH
Health Commissioner
Philadelphia Department of Public Health



CONGRATULATIONS

- Dr. Ala Stanford was appointed as the Region 3 HHS Regional Director, a key role in the Department of Health and Human Services (HHS)
- The region includes Delaware, Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia.



Philadelphia's COVID-19 Vaccine Journey and Looking Forward

Amber Tirmal, MPH
Immunization Program Manager
Division of Disease Control
Philadelphia Department of Public Health



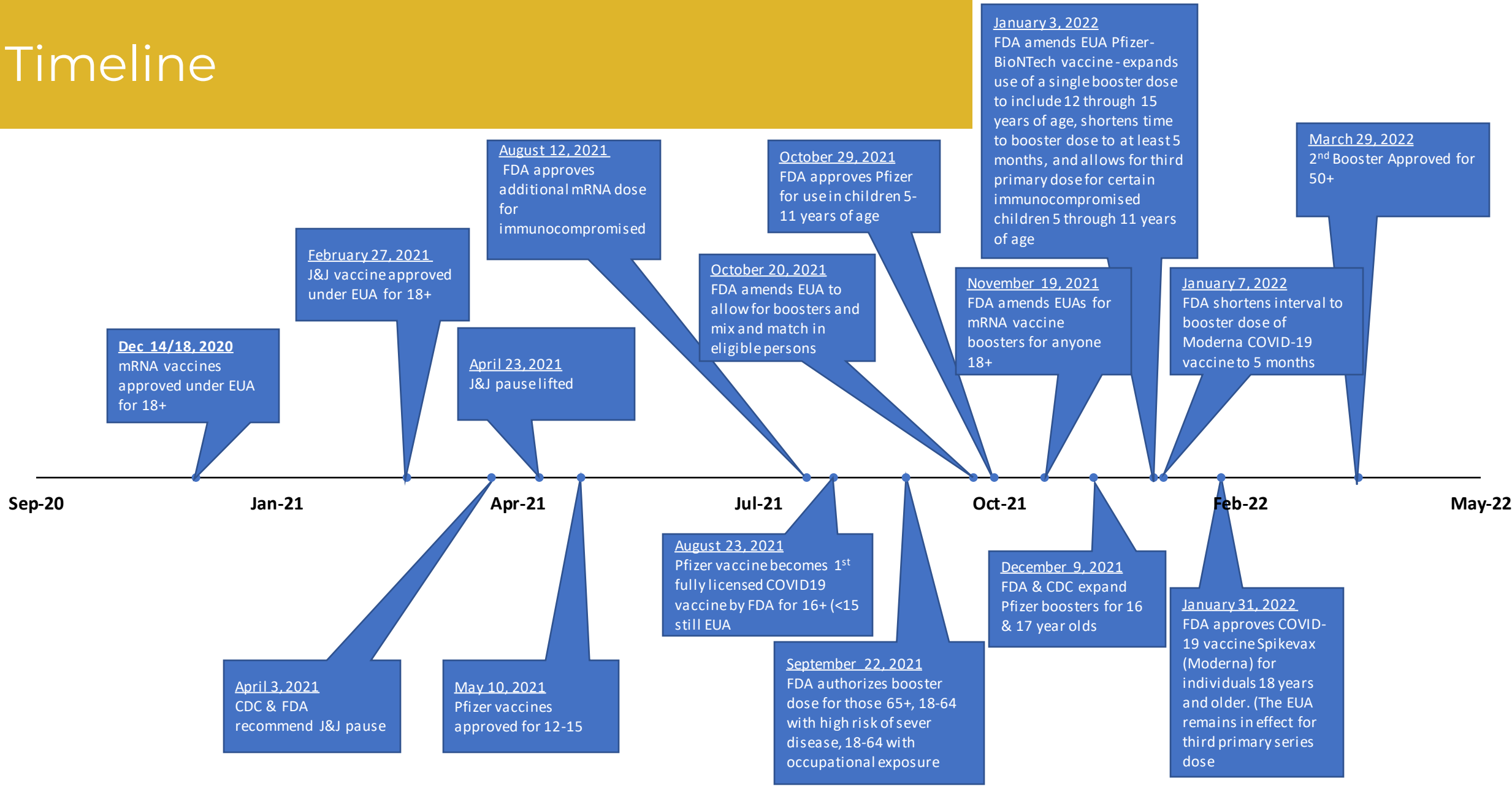
PDPH – COVID-19 Vaccine Response

The Tale of Vaccinating our City

What we Accomplished

- Timeline
- By the Numbers
- Data Collection
- Communications Materials
- FEMA Clinics
- Community Vaccine Clinics
- Pop-Up Clinics
- Mobile Teams
- Microsites
- Homebound Program
- Matchmaking Program
- Homeless Outreach Team
- What Comes Next?

Timeline



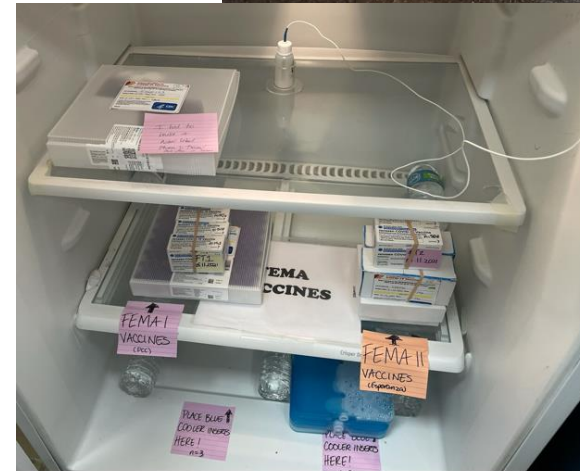
COVID19 Vaccine Distribution Program by the Numbers

- 273 sites enrolled in the program
- 63 sites visited for quality assurance visit
- 12 additional site visits to enroll sites
- 123 sites trained on VAERS reporting



COVID19 Vaccine Distribution Program by the Numbers

- Over 200 digital data loggers have been loaned out since July of 2021
- Over 139 coolers have been loaned out to distribute COVID vaccine
- Trained over 150 individuals on storage and handling
- Responded to more than 144 different temperature excursions



COVID19 Vaccine Distribution Program by the Numbers

- 34 staff persons hired in the Immunization Program to assist with the COVID19 vaccine response
- As of 5/6/2022: 3,232,311 doses of COVID19 vaccine have been administered
- Over 1.2 million Philadelphia residents are fully vaccinated

COVID19 Vaccine Distribution Program by the Numbers

- PDPH developed a system to deliver smaller quantities of vaccines to COVID-19 providers
- Total doses delivered to providers in Philadelphia by PDPH
 - Pfizer 12+ - 122,118
 - Pfizer 5-11 - 10,440
 - Moderna - 22,560
 - Janssen – 8,775

Vaccine Supplies Distributed

Surgical Masks	Gloves	Syringes	Needles	Combos	Alcohol Wipes	Band-Aids
5,250	9,200	1,000	6,000	21,000	10,800	15,000

Data Collection: CDC Requirements

- All COVID vaccinations are reported to PhilaVax (Immunization Registry) within 72 hours of administration
- During the early part of the vaccine campaign nearly 45% of the doses administered were captured via electronic files
- A new challenge for us as HL7 data is 80-85% of all data reported annually to us
- Data from electronic files were processed individually by the PhilaVax team within 24-72hrs to meet the CDC reporting requirements

Data Collection: PrepMod

- PrepMod was new system leveraged by PDPH for the vaccination campaign
- Residents could schedule a vaccination appointment via PrepMod
- Vaccination data for PDPH managed clinics are captured within the system
- Data captured in PrepMod requires nightly transfer to PhilaVax to report administration data to CDC

Communications Materials



The COVID-19 Vaccine is Prenatal Care

The COVID-19 vaccine is recommended for all pregnant and breastfeeding people. Pregnant people are more likely to get severely sick from the COVID-19 virus. Getting your COVID-19 vaccine protects you, and your baby!

Get your COVID-19 vaccine today!



¡Recibir una vacuna contra el COVID-19 es como...

usar un paraguas en la lluvia!

Estar completamente vacunado ayudará a mantener a la mayoría de las personas a salvo de enfermarse gravemente por el virus del COVID-19. ¡Pero recibir todas las dosis de refuerzo recomendadas brinda una protección completa, al igual que cuando tiene su abrigo de lluvia y paraguas bajo la lluvia!

¡Protéjase a sí mismo y a los demás en su comunidad al mantenerse al día con sus vacunas contra el COVID-19!



Con vacunación completa

Con vacunación completa y dosis de refuerzo

COVID-19 Vaccine Schedule for People Who are NOT Moderately or Severely Immunocompromised

Use the flowchart below to help determine if and when you need your next dose of COVID-19 vaccine. Ready to get vaccinated or have questions about the COVID-19 vaccines? Visit www.phila.gov/vaccine, email COVID@phila.gov, call 215-685-5488, or talk to your doctor or pharmacist!

Pfizer-BioNTech (ages 5-11 years)	Pfizer-BioNTech (ages 12 years and older)	Moderna (ages 18 years and older)	Janssen (ages 18 years and older)
1st dose	1st dose	1st dose	1st dose
↓	↓	↓	↓
2nd dose* (3 weeks after 1st dose)	2nd dose* (3-8 weeks after 1st dose)	2nd dose* (4-8 weeks after 1st dose)	Booster dose** (at least 2 months after 1st dose)
	↓	↓	
	Booster dose** (at least 5 months after 2nd dose)	Booster dose** (at least 5 months after 2nd dose)	

THE WAIT IS OVER!

Kids 5 and older can get their COVID-19 vaccine



GET YOUR VACCINE TODAY!

The Food and Drug Administration (FDA) has issued an Emergency Use Authorization (EUA) to Pfizer's new COVID-19 vaccine formula for children 5 to 11 years of age! Getting 5 to 11 year old children vaccinated now will help make sure fewer kids get sick from COVID-19 and will slow the spread of the virus to help protect us all!

WHERE CAN I GET A COVID-19 VACCINE FOR MY CHILD?

5 to 11 year old children can receive a COVID-19 vaccine at a pediatrician's office or many locations that provide adult COVID-19 vaccine. (We recommend contacting the location near you.)



THE WAIT IS OVER!

GET YOUR COVID-19 SHOT TODAY!

As the COVID-19 vaccine becomes more available, we're one step closer to hanging out, having fun, and most importantly, being safe. **Everyone 12 years of age and older can get their COVID-19 vaccine by making an appointment with your doctor or local health center.** Learn more about the COVID-19 vaccine by emailing covidvax@phila.gov, calling 311, or visiting www.phila.gov/covid.

¿La vacuna Pfizer COVID-19 ya está disponible para adolescentes y adolescentes de 12 años o más? ¡Recibir la vacuna COVID-19 ya permite a los niños de 5 a 11 años recibir la vacuna COVID-19. Obtener la vacuna COVID-19 para los niños de 5 a 11 años ahora ayudará a asegurarse de que los niños no se enfermen gravemente por el virus del COVID-19 y ralentizará la propagación del virus para ayudarnos a todos a protegernos. ¡Aprende más sobre la vacuna COVID-19 enviando un correo electrónico a covidvax@phila.gov, llamando al 311 o visitando www.phila.gov/covid para obtener más información.

現在，輝瑞COVID-19疫苗適用於12岁及以上的青少年和青少年！如獲COVID-19疫苗，那麼青少年和青少年也可以獲得COVID-19疫苗。5至11歲兒童現在接種COVID-19疫苗將有助於確保更少的兒童患COVID-19，並減緩病毒的傳播，以幫助我們所有人保護自己。了解有關COVID-19疫苗的信息，請發送電子郵件至covidvax@phila.gov，或撥打311，或訪問www.phila.gov/covid了解更多信息。

Thuốc chủng ngừa Pfizer COVID-19 hiện có sẵn cho thanh thiếu niên và thanh thiếu niên 12 tuổi trở lên. Hãy bắt đầu COVID-19 của bạn và đảm bảo rằng tất cả chúng ta đều khỏe mạnh. Việc chỉ định cho thanh thiếu niên và thanh thiếu niên 5 đến 11 tuổi sẽ giúp đảm bảo rằng ít trẻ em mắc COVID-19 và làm chậm sự lây lan của virus để giúp chúng ta tất cả đều được bảo vệ. Tìm hiểu thêm tại www.phila.gov/covid hoặc gọi 311 hoặc email covidvax@phila.gov để biết thêm thông tin.

Будучи Pfizer COVID-19 вакцина доступна для подростков и подростков в возрасте от 12 лет и старше! Как только вакцина COVID-19 будет доступна, дети в возрасте от 5 до 11 лет смогут получить вакцину COVID-19. Получение вакцины COVID-19 для детей в возрасте от 5 до 11 лет сейчас поможет убедиться, что дети не заболеют серьезно от COVID-19 и замедлят распространение вируса, чтобы помочь всем нам защитить себя. Узнайте больше о вакцине COVID-19, отправив электронное письмо по адресу covidvax@phila.gov, позвонив по телефону 311 или посетив www.phila.gov/covid.

Getting a COVID-19 vaccine is like... using an umbrella in the rain!

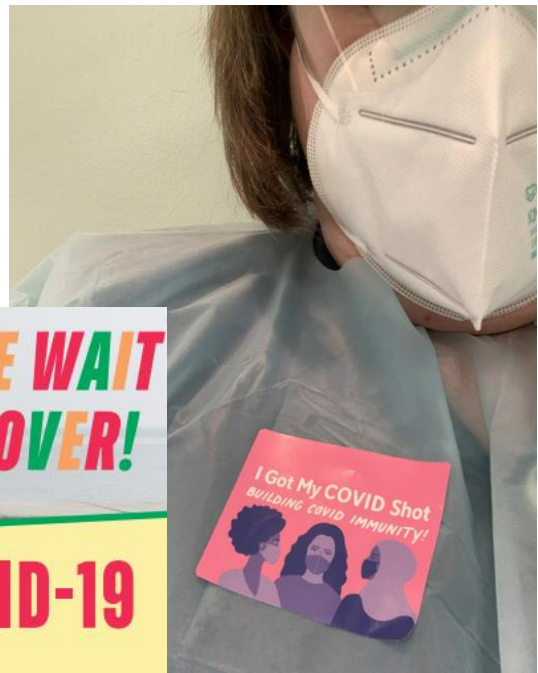
A complete series of COVID-19 vaccine will help keep most people safe from getting sick from the COVID-19 virus. But some individuals at higher risk may need a booster dose to give them extra protection.



Not vaccinated

Fully vaccinated

Fully vaccinated with booster dose



Communications Materials: We Can Do This

FIND VACCINES NEAR YOU
WWW.PHILA.GOV/VACCINES



WE CAN DO THIS

Give your **COVID-19** protection a **boost!**

www.phila.gov/vaccine



WHAT IS THE BENEFIT OF A COVID VACCINE BOOSTER?



Additional **PROTECTION** against **COVID** infection.



WE CAN DO THIS



WE CAN DO THIS



FEMA Sites

- 2 large FEMA sites: Convention Center and Esperanza
- Convention Center: 2/28/2021 through 6/20/2021
- Administered 332,429 doses
- Esperanza: 4/7/2021 through 6/20/2021
- Administered 23,051 doses



Community Vaccine Clinics (CVC)

- CVCs had the central purpose of making the vaccine program available to high-risk persons in under-vaccinated neighborhoods with few or no vaccine providers.
- PDPH ran approximately 272 Community Clinics at 27 unique locations throughout the City
- Administered 37,557 doses through these clinics
- CVCs operated February 2021 - April 2022



Pop-Up Clinics

- Pop-up clinics were operated by PDPH, Philadelphia Fire Department (PFD) and Office of Emergency Management (OEM).
- Pop-up clinics were deployed to both indoor and outdoor spaces (PFD).
- The flexibility of the pop-up clinic model allowed the city to bring services to the communities where larger clinics were not feasible
- PDPH in collaboration with partners ran 113 clinics in 61 unique locations
- Administered 4,765 doses through pop-up events
- Pop-up clinics operated January 2021 – April 2022



Mobile Teams

- These mobile vaccination resources are used to target the staff and residents at high-risk healthcare settings, such as behavioral health hospitals and congregate facilities.
- Includes personal care homes, assisted living facilities, behavioral health facilities, group homes, and shelters
- PDPH has run 224 clinics in 91 unique locations (and counting)
- Administered 10,382 doses
- Operated 12/2020 to present (clinics are ongoing)



Microsites

- Microsites—small vaccination clinics that operate on a recurring basis (once per week) at trusted sites in low vaccination neighborhoods in conjunction with partners.
- PDPH has operated 328 clinics in 17 unique locations
- Administered 3,489 doses
- Operated May 2021 to present (clinics are ongoing)



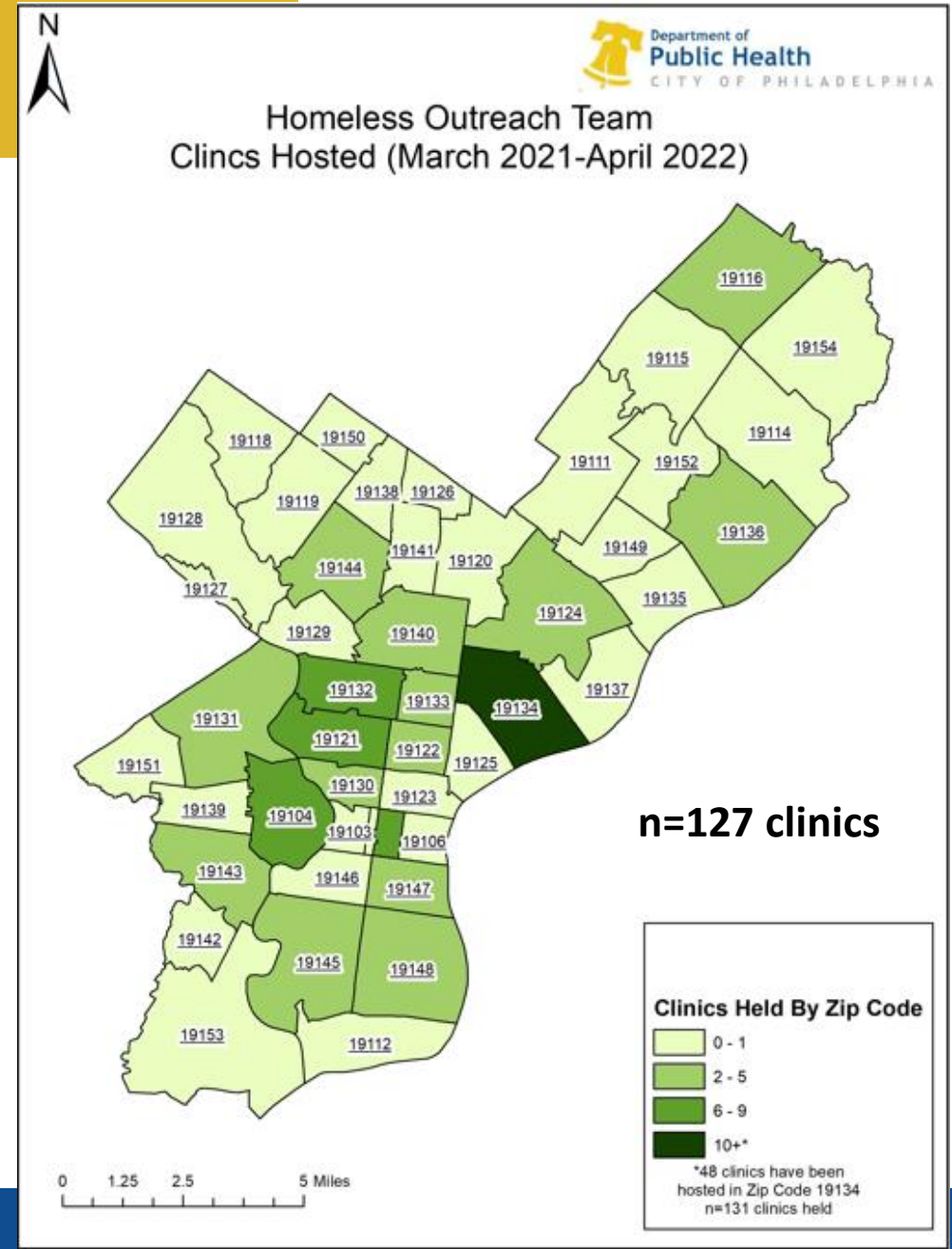
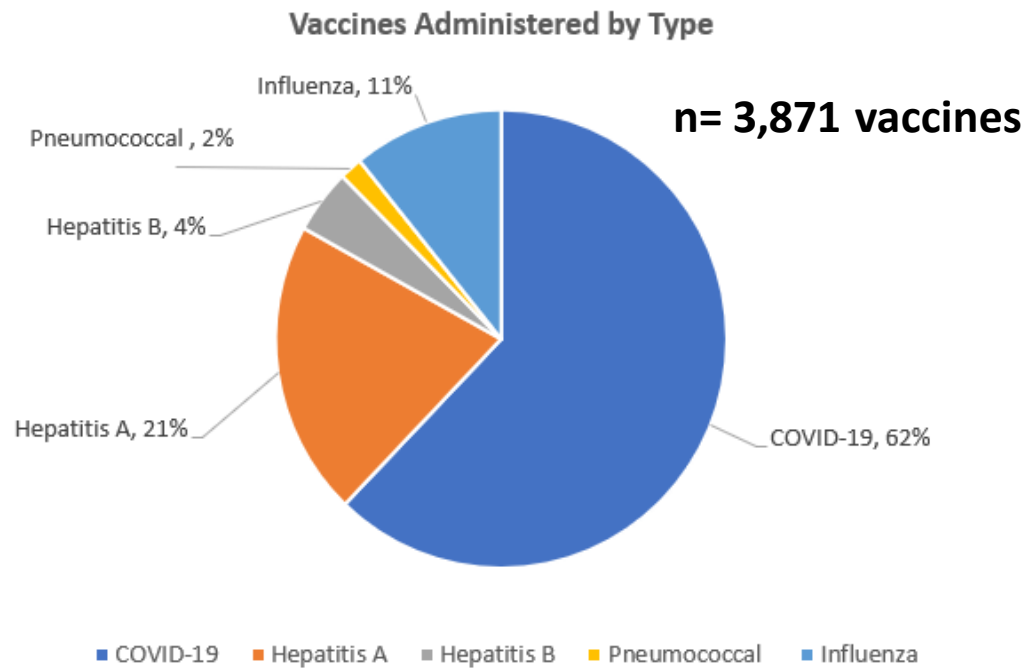
Homebound Program

- PDPH created the Homebound Vaccination Referral Program
- Program was initially intended for people who are homebound or for whom it would be difficult to be vaccinated at a clinic due to a disability
- PDPH refers persons enrolled in the registry to vaccine providers that have signed a data sharing MOU with the City
- 2,374 referrals have been made to vaccine providers (as of April)
- Expanded program in December to offer in-home vaccinations to persons who may be unable to travel to vaccine clinics due to other barriers, such as transportation

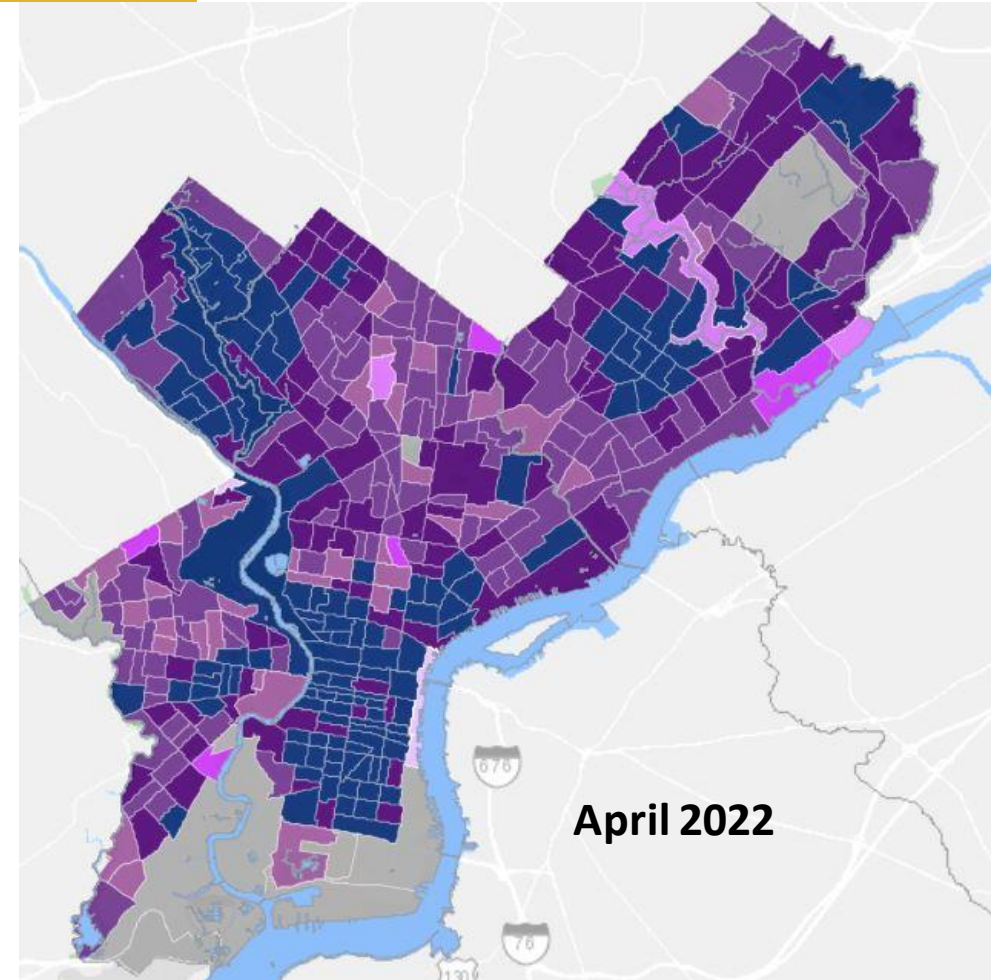
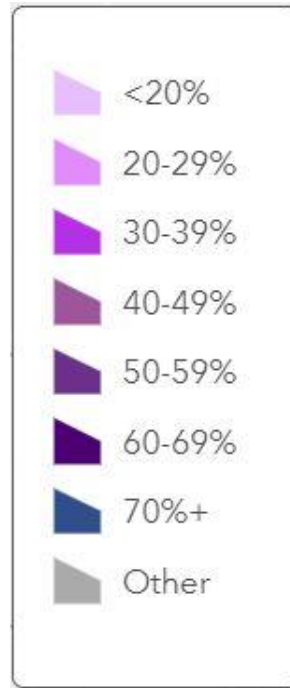
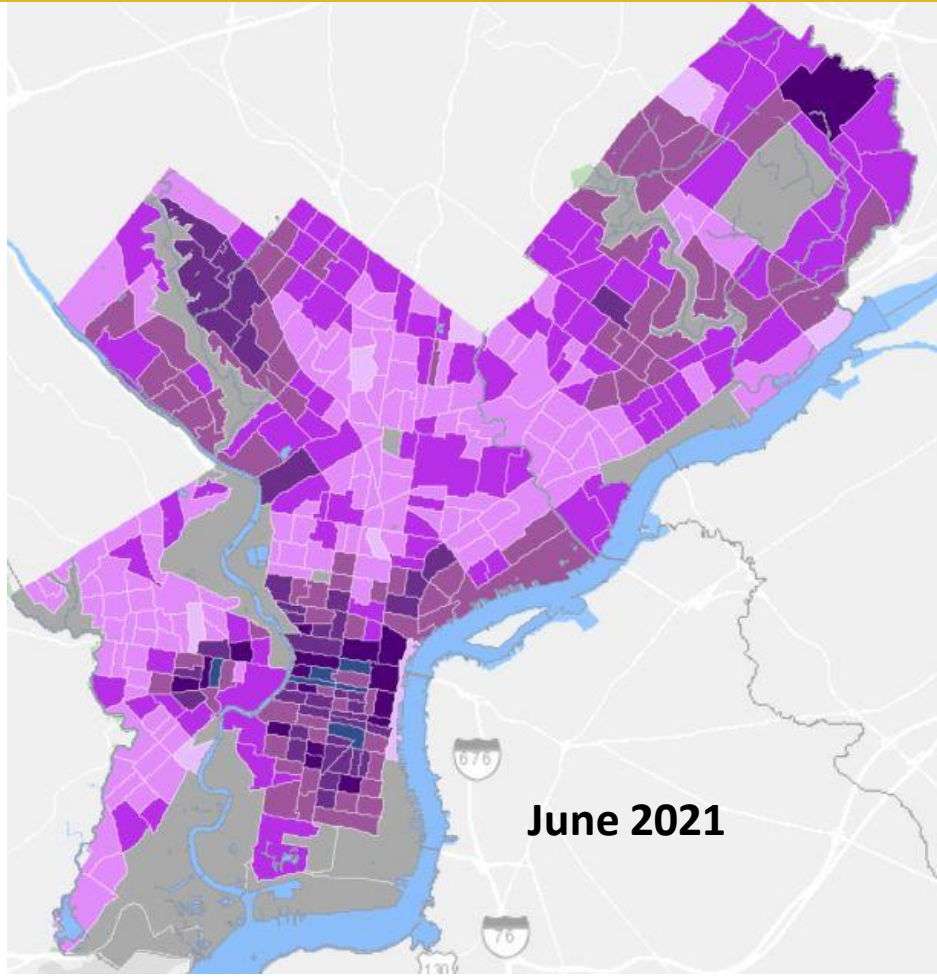
Matchmaking Program

- Matchmaking program was developed to help partner community-based organizations with COVID-19 vaccine providers to host vaccine events
- Community-based organizations complete a survey and PDPH connects them with local pharmacies, FQHCs, and doctors' offices
- Number of COVID-19 providers participating in the program: 69
- Number of matches requested: 297
- Number of events that were successfully matched: 143

Homeless Outreach Team



How Far We've Come



What Comes Next

- Continued commitment to ensuring all Philadelphians can access COVID19 vaccine
- Continued work to boost persons over 50 and all other eligible persons
- Continued work to ensure kids have access to COVID19 vaccine, including those under 5

10 MINUTE BREAK



Check out exhibitor tables and enjoy the breakfast spread!

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Meningitis B Prevention in Young Adults: Why It Matters + New Resources

Presented by:
Alicia Stillman, MBA, MPH

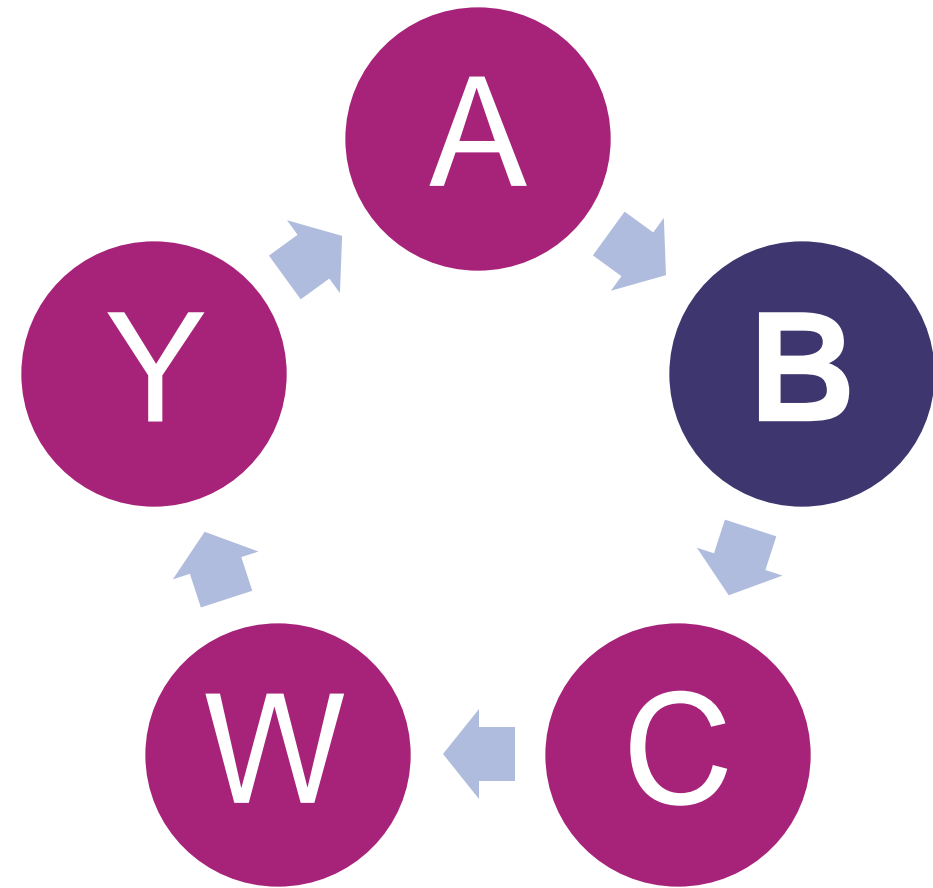




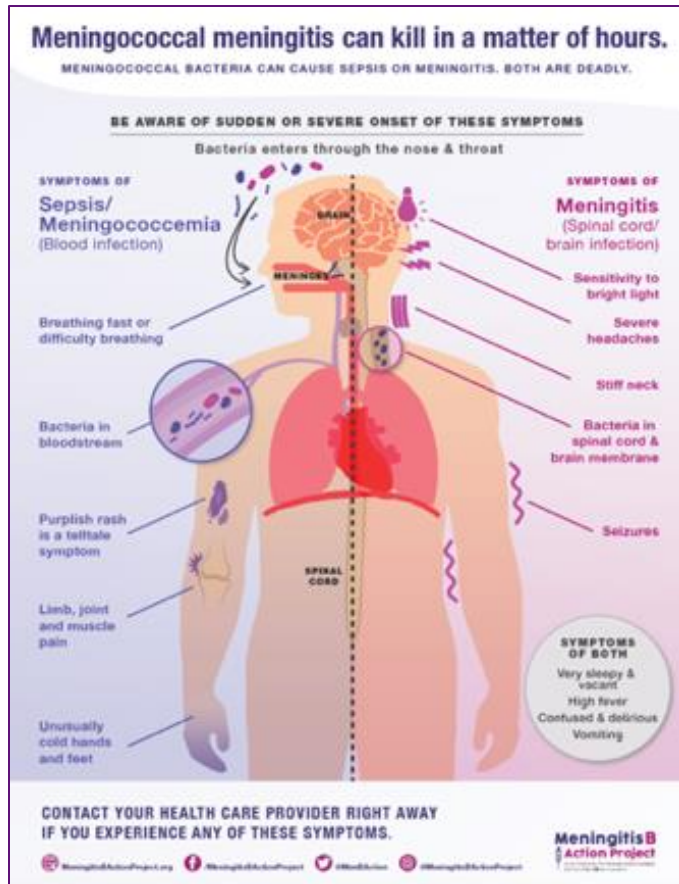
About Meningitis B

Meningococcal meningitis is the most common form of bacterial meningitis in adolescents and young adults.

It is mainly caused by 5 types of meningococcal bacteria - **ABCWY**.



Two Most Common Types of Meningococcal Infections Are...



Meningococemia (bloodstream infection that may lead to sepsis)

OR

Meningitis (infection of the membranes that surround the brain and spinal cord)

Transmission, Symptoms and Complications

It is easy to spread from person-to-person.



It can attack without warning and symptoms include rapid onset of:



Source: <https://www.cdc.gov/meningococcal/about/causes-transmission.html> , <https://www.cdc.gov/meningococcal/about/symptoms.html>

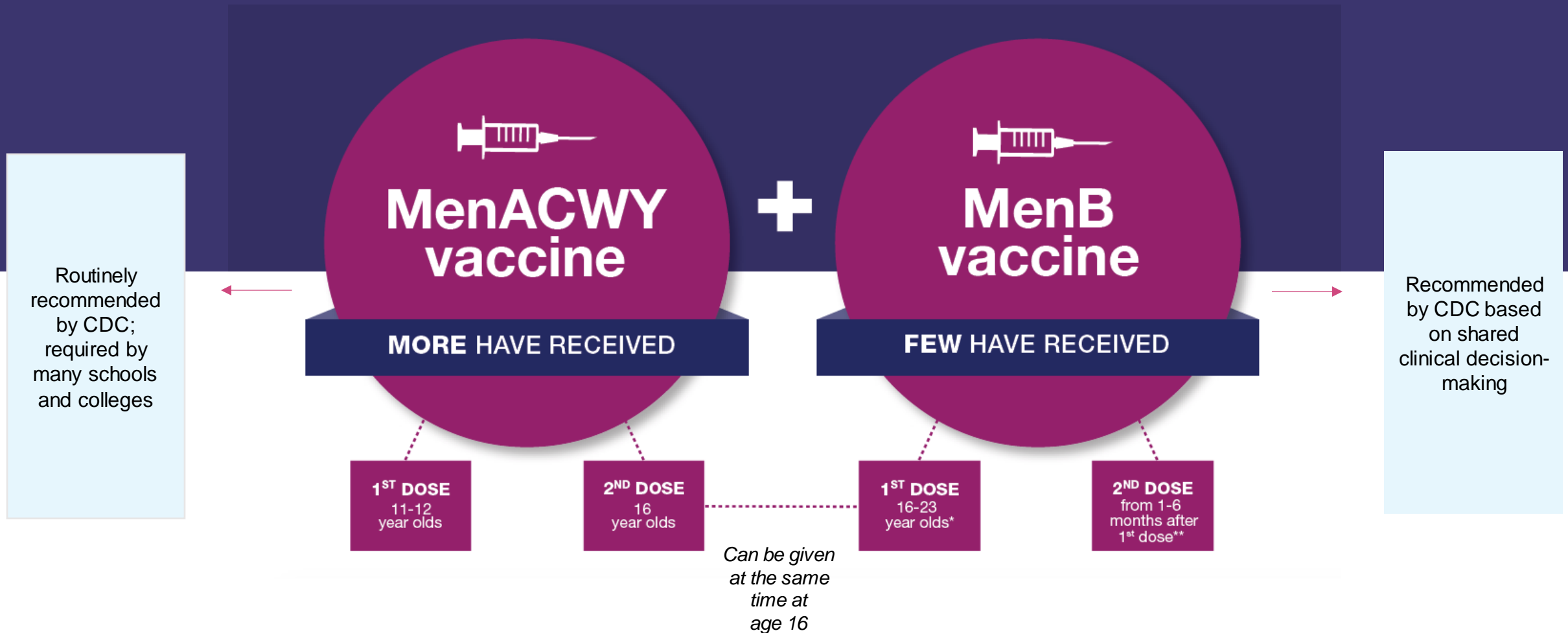


It can kill in a matter of hours. 1 in 10 will die.
2 in 10 will face permanent complications, like limb loss or brain damage.



Meningococcal Meningitis Vaccination: It Takes Two!

If a person has not received BOTH the MenB and MenACWY vaccines, they are not fully vaccinated against meningococcal meningitis.



* Depending on brand

What Is Shared Clinical Decision Making (SCDM)?

According to the CDC:

Unlike routine, catch-up, and risk-based recommendations, SCDM vaccinations are not recommended for everyone in a particular age group or everyone in an identifiable risk group.

SCDM recommendations are individually based and informed by a decision process between the health care provider and the patient or parent/guardian.

The decision about whether or not to vaccinate may be informed by the best available evidence of who may benefit from vaccination; the individual's characteristics, values, and preferences; the health care provider's clinical discretion; and the characteristics of the vaccine being considered.

Why the Difference between MenACWY and MenB?

Given that it is a newer vaccine, at the time of ACIP's review of the MenB vaccine in 2015, there was not enough evidence on:

- Duration of protection
- Effects on carriage
- Effects on herd immunity
- Strain coverage

The following factors have also been cited:

- Lower incidence of disease
- High cost of routine vaccination

So, What's the Problem?

Many physicians are not talking to their patients about the MenB vaccine and report an inconsistent or incorrect understanding of ACIP MenB recommendations

According to a study published in *Pediatrics* in August 2018, among 900 doctors surveyed:

49% of pediatricians

69% of family physicians

Did not discuss the MenB vaccine during routine visits for 16-18-year-olds.

The Impact



80%

of parents didn't know about the Meningitis B vaccine



70%

of all meningococcal cases in the US are among 16-23-year-olds are MenB



100%

of college outbreaks since 2011 are caused by MenB



7 of 10

16-18-year-olds have NOT received their first dose of the MenB vaccine



5x

more likely in college students (than non-college students), yet few colleges require the MenB vaccine

Sources:

Basta NE, Becker AB, Li Q, Nederhoff D. Parental awareness of Meningococcal B vaccines and willingness to vaccinate their teens. *Vaccine*. 2019 Jan 21;37(4):670-676
Centers for Disease Control and Prevention. Enhanced meningococcal disease surveillance report, 2016. Available at: <https://www.cdc.gov/meningococcal/downloads/NCIRD-EMS-Report.pdf>. Accessed September 19, 2019.
Serogroup B Meningococcal Disease Outbreak and Carriage Evaluation at a College — Rhode Island, 2015. *Morbidity and Mortality Weekly Report*, US Department of Health and Human Services/Centers for Disease Control and Prevention, June 12, 2015/ 64(22).
Outbreak of Serogroup B Meningococcal Disease at a University — California, 2016. *Morbidity and Mortality Weekly Report*, US Department of Health and Human Services/Centers for Disease Control and Prevention, May 27, 2016, 65 (20)
Centers for Disease Control and Prevention. Morbidity and Mortality Weekly Report. National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2018. Vol. 68, No. 33, 23 August 2019. *Epidemiology of meningococcal disease among college students — United States, 2014–2016* <https://stacks.cdc.gov/view/ocd/59918>
Gary S Marshall Gary S, Amanda F Dempsey, Amit Sivastava, Raul E Isturiz, US College Students Are at Increased Risk for Serogroup B Meningococcal Disease, *Journal of the Pediatric Infectious Diseases Society*. pii024.
Elam-Evans LD, Yankey D, Singleton JA, et al. National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2019. *MMWR Morb Mortal Wkly Rep* 2020;69:1109–1116. DOI: <http://dx.doi.org/10.15585/mmwr.mm6933a1>

You can't act on what you don't know.



“It is our responsibility as providers to protect our patients as much as possible. Meningitis B is a potentially deadly disease. That’s why it’s critical that all of us proactively discuss the risks of Meningitis B and the availability of the MenB vaccine with our adolescent patients and their parents.”

– Dr. Paul Offit, Director of the Vaccine Education Center at the Children’s Hospital of Philadelphia and Professor of Vaccinology and Pediatrics at the University of Pennsylvania Perelman School of Medicine

How do we make sure that **ALL** parents and kids have access to the information they need to make an informed choice?

Moving from Knowledge to Action Takes A Village



How We Can Help: The Meningitis B Action Project Provides Resources To Support And Amplify Awareness And Education Efforts

Educational resources for:

- ✓ Students
- ✓ Healthcare Professionals
- ✓ Parents

Local meetings, speaking engagements, webinars etc. We are eager to share our stories to help you spread this important message.



Brochures



Reminder One Pager for HCPs



Posters



Tear off Appt. Reminder Pads for Doctor's Offices



Magnets for Doctor's Offices and Students



Sharable Social Media Graphics



Videos



Available for download on MeningitisBActionProject.org

Meningitis B Educational Curriculum



Curriculum Includes:

- Student friendly talking points
- Downloadable, printable educational materials
- Strategies for engaging college leadership
- Tips and inspiration for students

For Students, By Students

A free digital resource from the Meningitis B Action Project for peer health educators on college campuses to educate fellow students about Meningitis B.

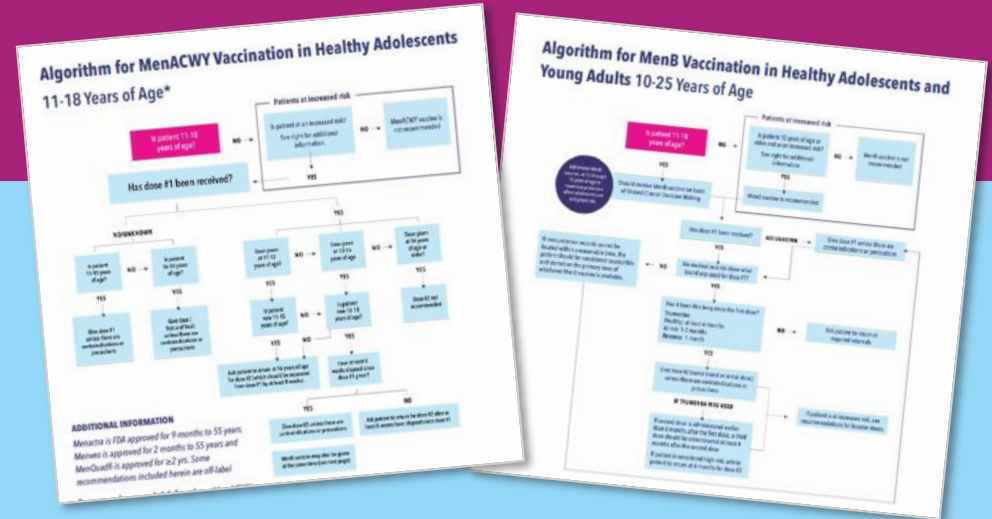
<https://meningitisbactionproject.org/forcolleges>



Meningococcal Meningitis Vaccination Algorithm

For Healthcare Providers

An easy-to-use and reference resource from the Meningitis B Action Project to educate HCPs on meningitis vaccination recommendations and to facilitate shared clinical decision-making.



Algorithm Includes:

- Overview of CDC recommendations for meningococcal meningitis vaccination
- Easy to follow decision tree for MenACWY and MenB vaccinations
- Additional information on: administration of vaccines, persons at increased risk, contraindications and precautions
- Strategies for shared clinical decision-making

Highly Recommend: AANP Meningococcal Vaccines CE Course (Available for All)

AANP American Association of NURSE PRACTITIONERS

CE Center

Catalog Home MY AANP

Browse by Delivery Type Search... Go Advanced Search

Hello, Guest Sign In

Home » Immunology » Product Details

Meningococcal Vaccine: Prevention of Serogroup B Meningococcal Disease in Adolescents and Young Adults

Credit(s): 1 Contact Hour(s) of CE; 0.5 of which may be applied towards Pharmacology

Program Number: 21065034

Original Program Date: July 29, 2021

Access: Available until July 31, 2022

Register Now

FACEBOOK LINKEDIN TWITTER E-MAIL

Description Credits Faculty Materials Reviews

Released: 07/29/2021
Expires: 07/31/2022 (subject to change)
• CE for this activity will not be available after this date.

★★★★★
Read (50)
Reviews

Category: Immunology - Earn CE for All

MENINGOCOCCAL VACCINE

Prevention of Serogroup B Meningococcal Disease in Adolescents and Young Adults

AANP American Association of NURSE PRACTITIONERS

Listen to audio case studies!

Case Scenarios

Meet Rosa

Age: 19 years
Social History

- Currently attending 4-year university as a freshman
- Living in an on-campus dormitory
- Recently, a meningococcal disease serogroup B outbreak was declared on the college campus

Medical History

- Prescribed oral contraceptives at age 16 (norgestrel/ethinylloestradiol)
- Received MenACWY vaccine at age 11 and booster at age 17 years
- No history of MenB vaccination
- Other vaccinations are up-to-date

Reason for Appointment

- Would like a refill for her oral contraceptives

How should Rosa's provider incorporate a discussion of MenB vaccination into the clinical encounter?

Click on the play button for Faculty Expert Opinions!
To stop audio playback, right-click the active audio area and select "Disable content".

Meet Isabella

Age: 16 years
Social History

- Currently attending high school and lives with her parents
- Plans to attend a 4-year college after she graduates; has begun touring colleges with her parents

Medical History

- Received MenACWY vaccine at age 12
- Other vaccinations are up-to-date

Reason for Appointment

- Parents with parents for seasonal influenza vaccine and MenACWY vaccine booster

How can this appointment be used to begin discussions about MenB vaccination?

Click on the play button for Faculty Expert Opinions!
To stop audio playback, right-click the active audio area and select "Disable content".

Meningococcal Vaccine

Thank you!

Contact us at
info@meningitisbactionproject.org



Vaccines and Schools: Looking Back to Move Forward

Dr. Barbara Klock, MD
School Health Medical Advisor
Children's Hospital of Philadelphia – Policy Lab



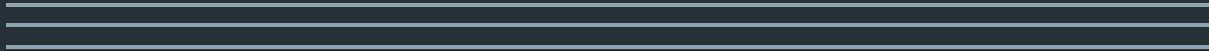
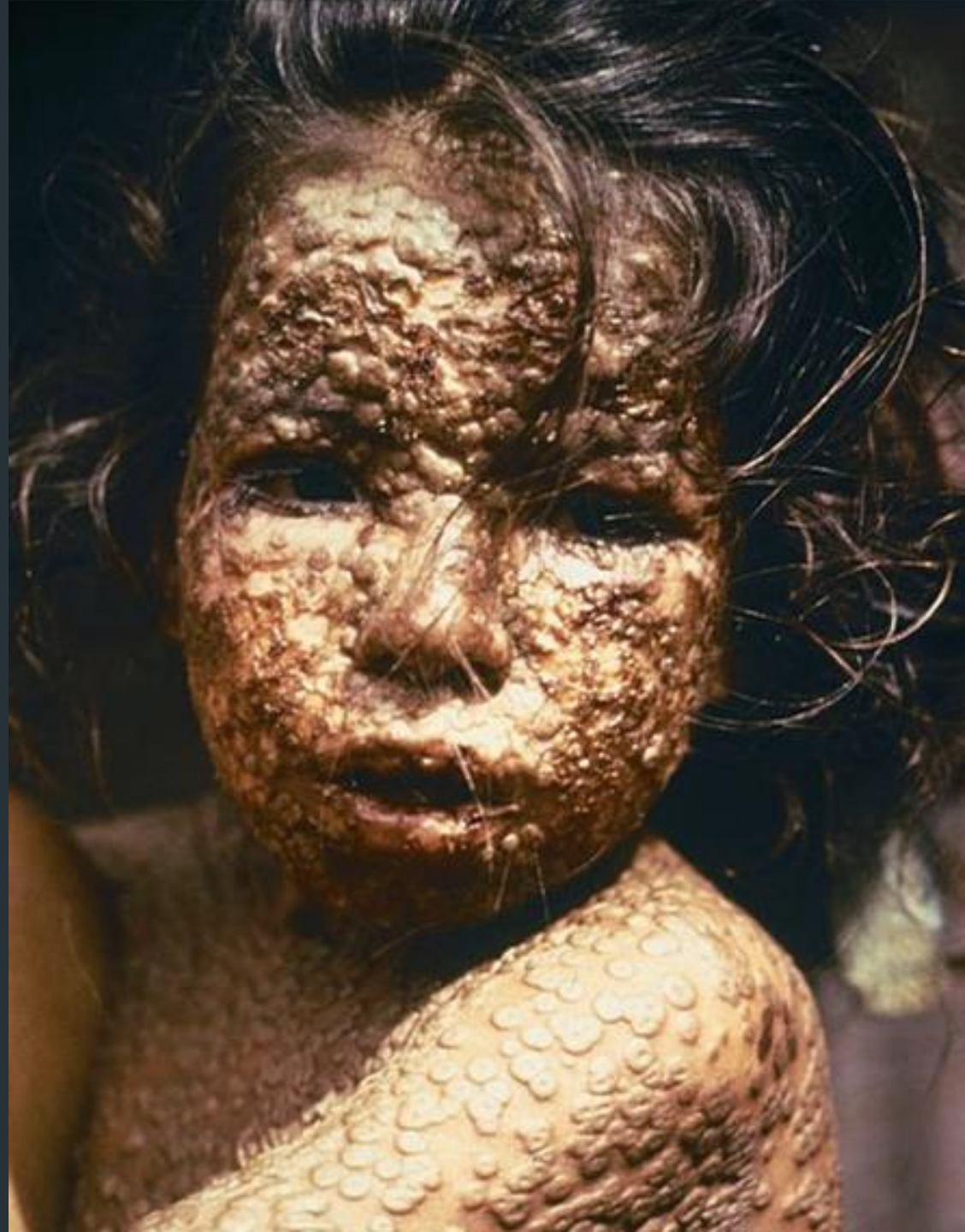
VACCINES AND SCHOOLS:

LOOKING BACK TO MOVE FORWARD





SMALLPOX



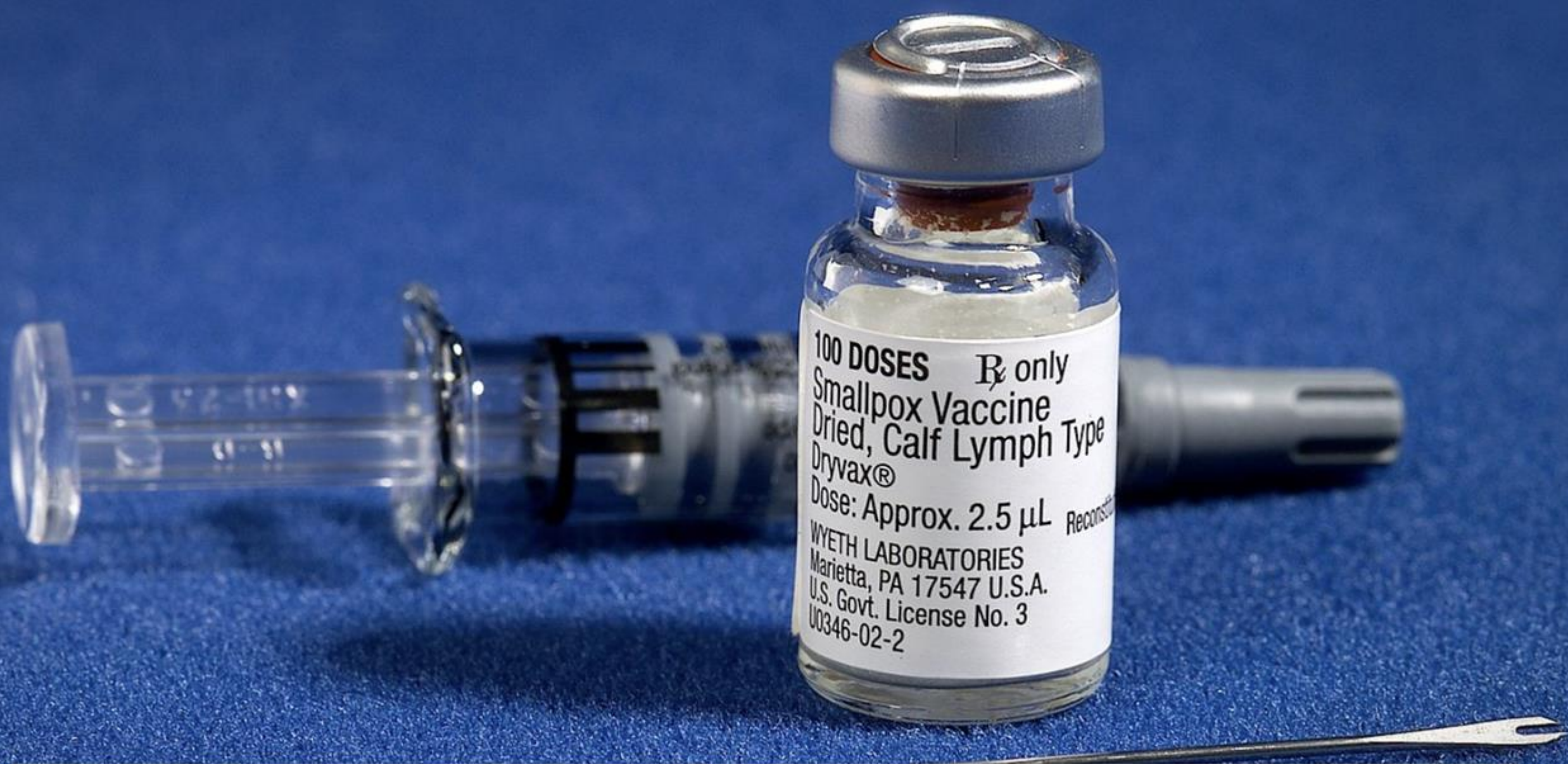


1796









Smallpox vaccine | 

THE LANCET

The Lancet, Volume 371, Issue 9187, Pages 437–441, 28 February 1998
doi:10.1016/S0140-6736(97)11096-0

This article was retracted

RETRACTED: Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

Dr [AJ Wakefield](#) FRCS, [S March](#) MB B, [A Anthony](#) MB B, [J Linn](#) PhD, [D Casson](#) MRCP, [W Malik](#) MRCP, [W Berelowitz](#) FRCPsych, [AP Dillon](#) MRCPsych, [MA Thomson](#) FRCP, [P Harvey](#) FRCP, [A Valentine](#) FRCP, [SE Davies](#) MRCPsych, [JA Walker-Smith](#) FRCP

Summary

Background

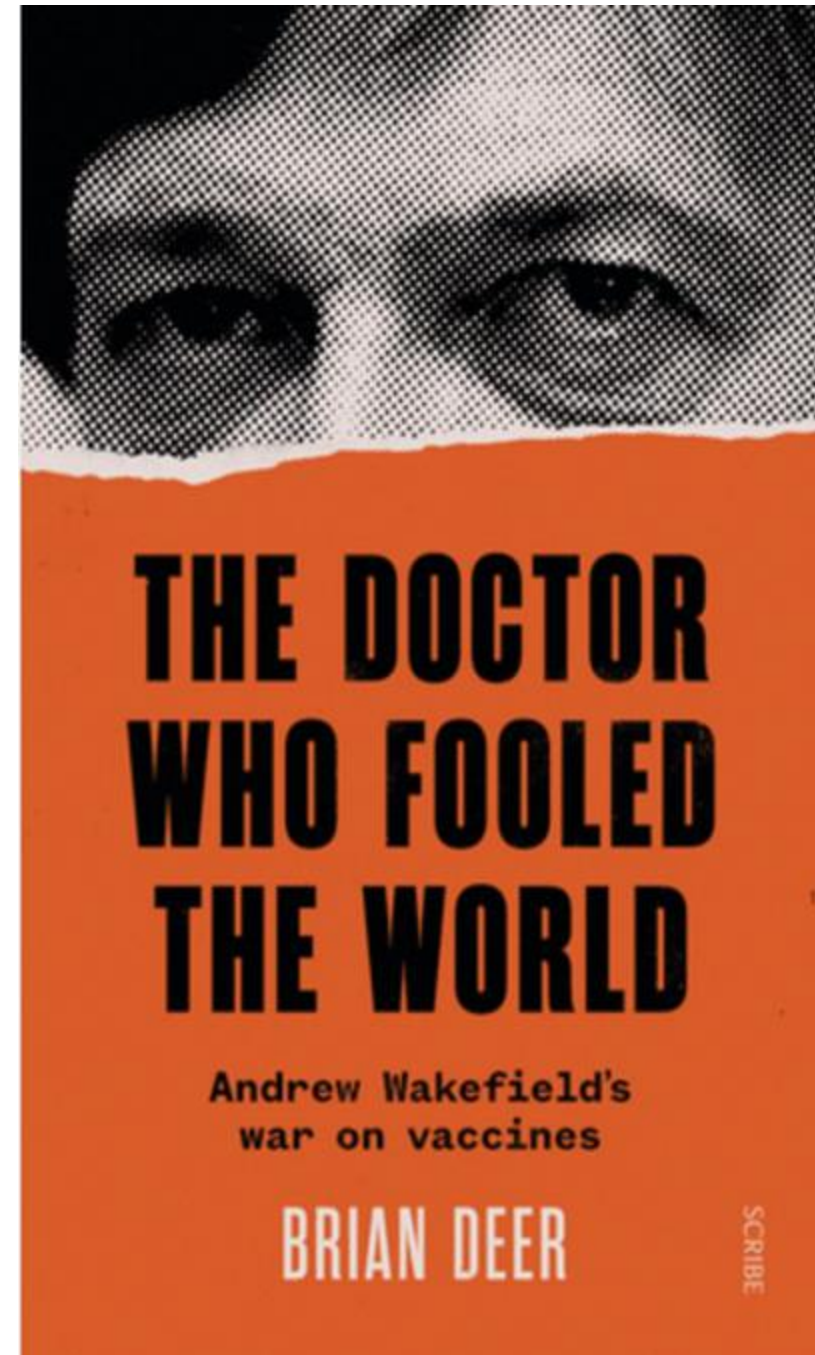
We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.

Methods

12 children (mean age 6 years [range 3–10], 11 boys) were referred to a paediatric gastroenterology unit with a history of normal development followed by loss of acquired skills, including language, together with diarrhoea and abdominal pain. Children underwent gastroenterological, neurological, and developmental assessment and review of developmental records. Ileocolonoscopy and biopsy sampling, magnetic resonance imaging (MRI), electroencephalography (EEG), and lumbar puncture were done under sedation. Barium follow through radiography was done where possible. Biochemical, haematological, and immunological profiles were examined.

Between July 2007 and May 2010, the UK General Medical Council (GMC) convened a tribunal, in light of emerging evidence of scientific misconduct, to evaluate these claims against Wakefield. Wakefield continued to deny all charges, but in January 2010, the GMC ruled against Wakefield citing that he had: “failed in his duties as a responsible consultant”, acted against the interests of his patients, and “dishonestly and irresponsibly” engaged in his controversial research.

In May 2010, Andrew Wakefield was sanctioned by the GMC, effectively ending his career as a physician. In announcing the ruling, the GMC said that Wakefield had “brought the medical profession into disrepute”, and no sanction short of erasing his name from the register was appropriate for the “serious and wide-ranging findings” of misconduct.





"In Rama there was a voice heard, lamentations and weeping, and great mourning, Rachael weeping for her children, and would not be comforted because they are not."—Matt. 11: 2.

The City Papers Cry

VACCINATE! VACCINATE!! VACCINATE!!!

THERE'S MONEY IN IT!!!

TWENTY THOUSAND VICTIMS!!! will be Vaccinated within the next ten days in this City under the present **ALARM!!!**

That will put **\$10,000** into the pockets of the Medical Profession.

CLEANLINESS, SANITATION AND HYCIENE ARE "NONSENSE," unworthy of attention by our Board of Health.

FILTHY STREETS, FILTHY LANES, AND FILTHY DRAINS help the Medical Profession.

THERE'S MONEY IN IT!!!

The City Papers Cry

VACCINATE! VACCINATE!! VACCINATE!!!

O tempora, O mores!

August 1855



The Cow-Pock — or — the Wonderful Effects of the New Inoculation! — Note the Publications of the Anti-Vaccine Society.

An 1802 caricature imagines outlandish side effects from the use of cow pox to vaccinate against smallpox. Credit: James Gillray/British Cartoon Prints Collection/Library of Congress



This illustration depicts a compulsory vaccination drive in New Jersey circa 1880s. (National Library of Medicine)

THE ANTI-VACCINATOR,

And Advocate of Cleanliness.

LIBRARY
APR 10 1916
MEDICAL OFFICE

"If an offence come out of the Truth, better it is that the offence come than the Truth be concealed."—JEROME.

EDITOR,

MONTREAL, OCTOBER, 1885.

ALEX. M. ROSS, M.D.

SMALL-POX.

Small-pox is a member of the group of diseases described as zymotic, which originate in unwholesome conditions of life, and in common are diminished or prevented by the reduction and removal of these conditions. It is a disease more ancient than our historical records. Long before the date of inoculation and vaccination we find the disease identical in every respect with that of to-day. Small-pox appeared at sundry distant periods, sometimes not returning during an entire century; and was at times virulent, and at other times mild. Into whatever country it penetrated, amongst whatever people it found a home, and wherever its ravages decimated the population, the conditions which formed its development and its diffusion were one and the

be directed. The Legislature can do much—the people can do more; but the people must be taught the importance of the subject in all its relations to their daily life. Our children must be educated in the science of life, how to preserve it and how to promote it. Knowledge which in its results can save or destroy, must not be left to get anyhow, or not to get at all.

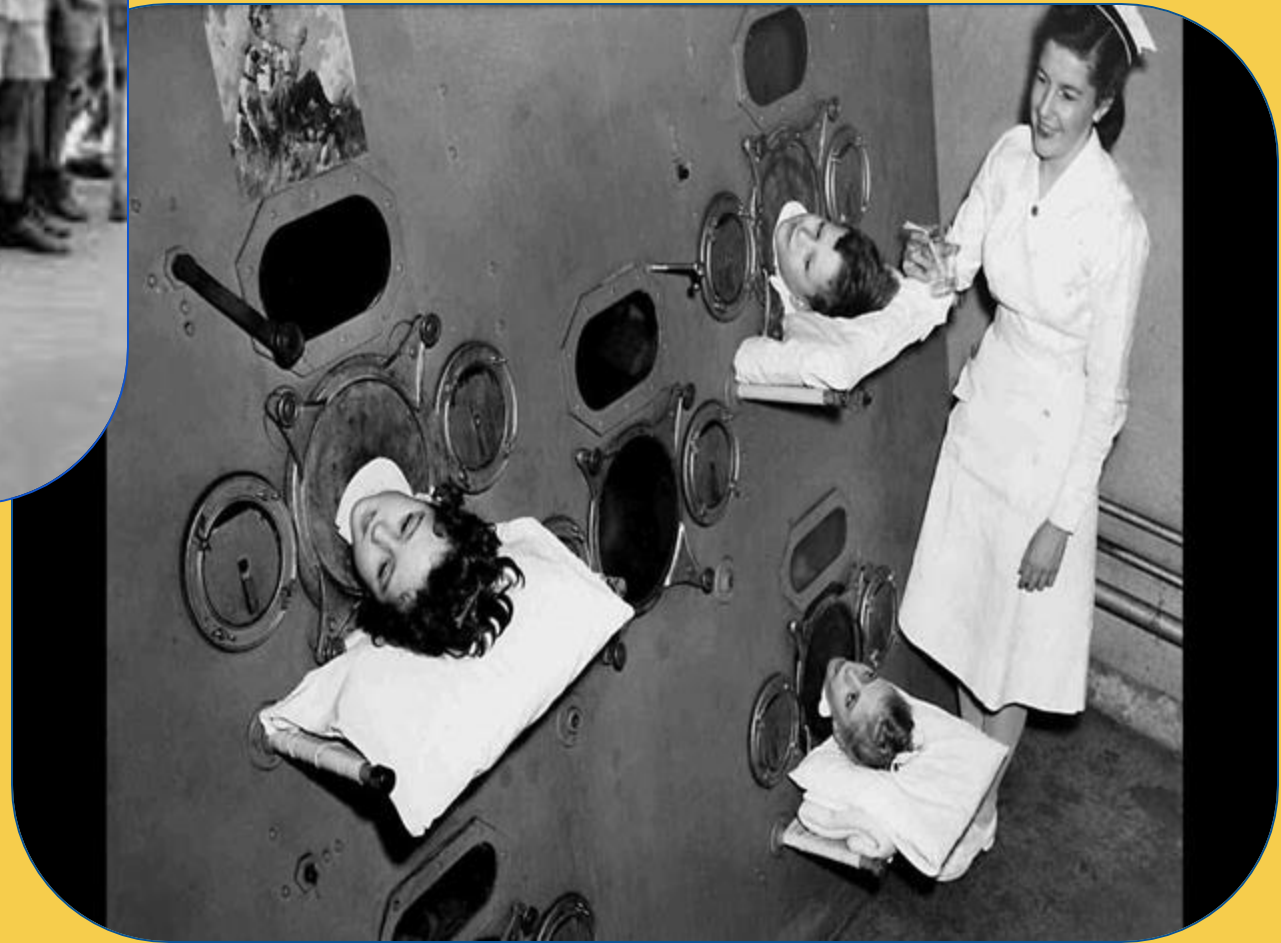
Social and sanitary science, by producing a healthy mind, in a healthy body, will teach a man how to regulate and economize his life; and reason will teach him how to utilize it. Man is a sanitary animal. The structure and the uses of the skin prove this beyond doubt. Pure air, pure water (inside and outside), plain, wholesome food, plenty of exercise in the pure air—these are natural health-producing agents.

INOCULATION FALLACY.

Before the present system of vaccinating with cow-pox virus was introduced, the prac-

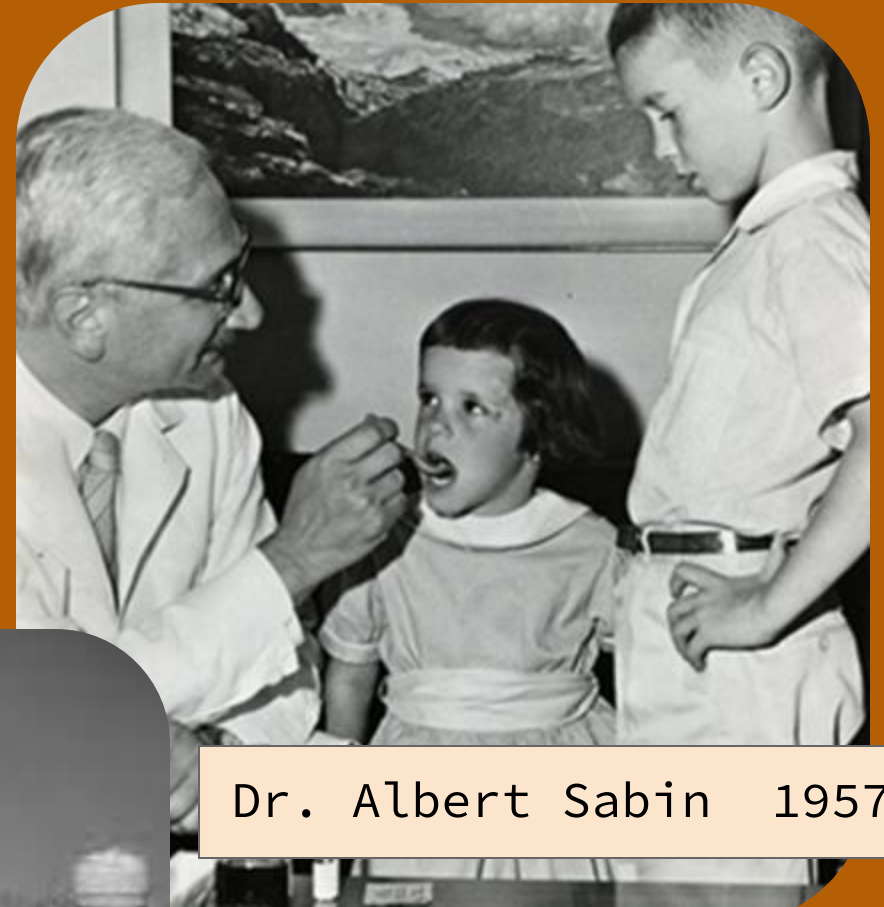
with running sores, or horse-grease cow-pox. That is what Jenner pronounced a *sovereign antidote against small-pox*. (See Baron's *Life of Jenner*, vol. 1, p. 135.)

I give the above details to show the origin of this filthy practice. Domestic animals are subject to many diseases, and these can be, and often are, transferred to the bodies of human beings by vaccination. As vaccination is falling into disrepute as a preventive of small-pox, as originally asserted by Jenner and his followers, a cry has arisen for *re-vaccination*. To be effective—it is now said—vaccination must be repeated every seven years, while others say annually and semi-annually. It is said by the advocates of vaccination that, owing to transmission from arm to arm, "Jenner's horse-grease cow-pox" virus has lost its power as a preventive; hence, to retrieve the credit of vaccination, the calf-pox project has been started, with the unscientific nonsense about resorting to *pure lymph from the calf!*

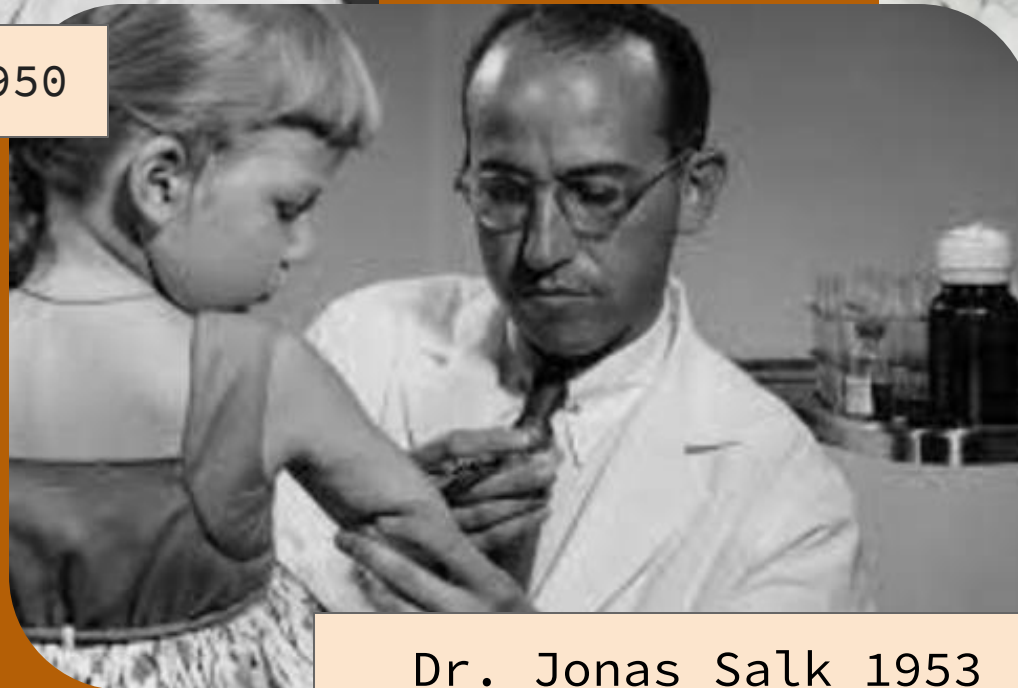




Dr. Hilary Koprowski 1950



Dr. Albert Sabin 1957



Dr. Jonas Salk 1953



Peter Salk receiving the polio vaccine from his father, Jonas Salk, in 1953 *March of Dimes Foundation*



POLIO

*can cripple—
even the fittest*

THE BEST DEFENCE
IS VACCINATION

NOW
IT'S AVAILABLE FREE
TO ALL UP TO AGE ~~X~~
40

Ask your local health department,
clinic or family doctor for details

ISSUED BY THE MINISTRY OF HEALTH

THE NATIONAL FOUNDATION FOR INFANTIL PARALYSIS
CERTIFIES THAT

Bonnie Jean

HAS BEEN ENROLLED AS A

POLIO PIONEER

and this certificate of membership is
hereby presented for taking part in the first national tests
of a trial polio vaccine conducted during 1954.

Basil O'Connor PRESIDENT









20
09



Students in Muskegon, Michigan, wait in line to receive their H1N1 swine flu vaccine shots during the 2009 pandemic. Researchers recently identified a virus that shares characteristics with the 2009 H1N1 virus.

COVID-19 VACCINE

[Vaccine Resources](#)[Vaccine Events](#)[COVID Health and Safety Overview](#)[Vaccination of Athletes](#)

Student Vaccinations

A CHOP & SDP VACCINATION EVENT

IT'S YOUR TURN TO GET VAXXED!

What's Happening?

Vacinations for COVID-19 2 dose Pfizer Vaccine

Where?

Roberto Clemente Middle School
122 West Erie Avenue

When?

June 22 from 3:30-7:30 pm

Call or Text "READY" to 267-328-5378 or visit
CHOPVax.chop.edu

To register for an appointment



Are you 12-17 years old?
Make sure your parent/guardian is available in person or by phone for verbal consent.



We provide the **Faxx**, so you can get the **Vaxx**



If you're 12 years old or older, come get VAXXED! A parent or guardian is required to be there with you if you are under the age of 16.

Vaccine Events

Friday, May 14th
Edward O'Malley Recreation Center
1-4pm

Saturday, May 15th
Deliverance Evangelistic Church
10-12pm: Teen Events
12-4pm: Get VAXXED!

Tuesday, May 18th
University of the Sciences
10-4pm

Thursday, May 20th
Simon Gratz High School
1-4pm

**OUR COMMUNITY
NEEDS IMMUNITY TO
GET BACK TO THE
THINGS WE LOVE**

Myths and Facts
about the COVID-19
Vaccines!



**-YOU IMPROVE YOUR IMMUNITY
TO COVID-19
-YOU'LL PROTECT OTHERS LIKE
FAMILY MEMBERS AND THOSE
HIGH-RISK**

**The virus waits for
nobody. Let's not wait
for it. Get vaccinated**



5/15
Register for the
events above!

No
Appointment
Necessary



5/14

5/20

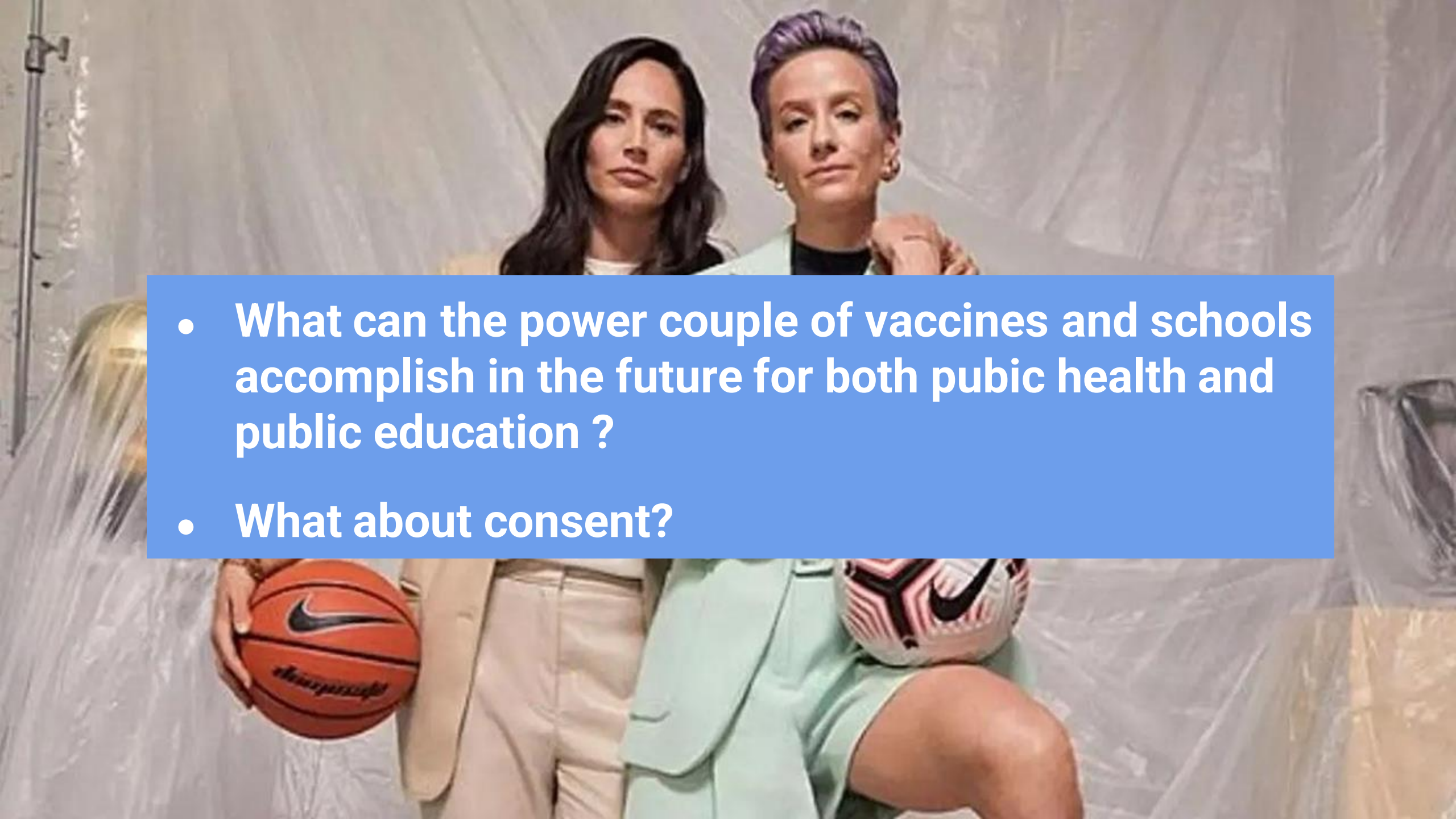


5/18



- **Anti - vaxxers have always existed and will always exist.**
- **No vaccine is 100%**
- **Schools are good places to reach children for vaccinations**
- **Education is key**
- **Socio-political climate will also be an influencer**



- 
- What can the power couple of vaccines and schools accomplish in the future for both public health and public education ?
 - What about consent?





MEDICAL EVALUATION, IMMUNIZATION, AND TREATMENT OF MINORS

(a) Minor's Consent to Examination and Treatment. A person between the ages of 11 and 18 may give consent, without the approval or consent of another person, for examination, treatment and services to determine the presence of or to treat a sexually transmitted disease and any other disease, infection or condition reportable pursuant to the Disease Prevention and Control Law of 1955 and the regulations adopted thereunder, provided such person is capable of providing informed consent. The health care provider may not be sued or held liable for implementing appropriate diagnostic measures or administering appropriate treatment to the minor if the minor has consented to such procedures or treatment.

(b) Minor's Consent to Immunization. A person between the ages of 11 and 18 may authorize his or her own immunization, without the approval or consent of another person, to prevent occurrence of a reportable disease, infection, or condition, provided such person is capable of providing informed consent. A parent or guardian does not need to be present at the time the vaccine is administered. Written consent by the minor is not required, but documentation that the vaccine information statement (VIS) was provided to the vaccine recipient, and the publication date of the VIS, is required. The health care provider may not be sued or held liable for providing such immunization to the minor if the minor has consented to such procedures or treatment.

A GOAL

WITHOUT A

PLAN IS JUST

A DREAM.

LUNCH



1 hour break! Enjoy your lunch in the gardens.

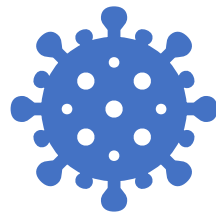
AGENDA

Welcome Introduction	9:15am-9:25am
Motivational Welcome	9:25am-9:40am
Philadelphia’s COVID Vaccine Journey and Looking Forward	9:40am-10:10am
10 Minute Break	10:10am–10:20am
Why Meningitis B Vaccine Matters	10:20am-11:00am
Vaccines and Schools: Looking Back to Look Forward	11:00am-12:00pm
Lunch	12:00pm – 1:00pm
Re-establishing Vaccine Coverage Post COVID-19	1:00pm-1:30pm
Stories from the Frontlines	1:30pm-2:00pm
Vaccine Equity: Panel	2:00pm-3:00pm
Closing Remarks	3:00pm-3:30pm



Re-establishing Vaccine Coverage Post COVID-19

Helene Janosczyk, MA
Medical Science Liaison
Sanofi



MSL-TITLE-004 - P - DISTRIB - EXP 3/19/23

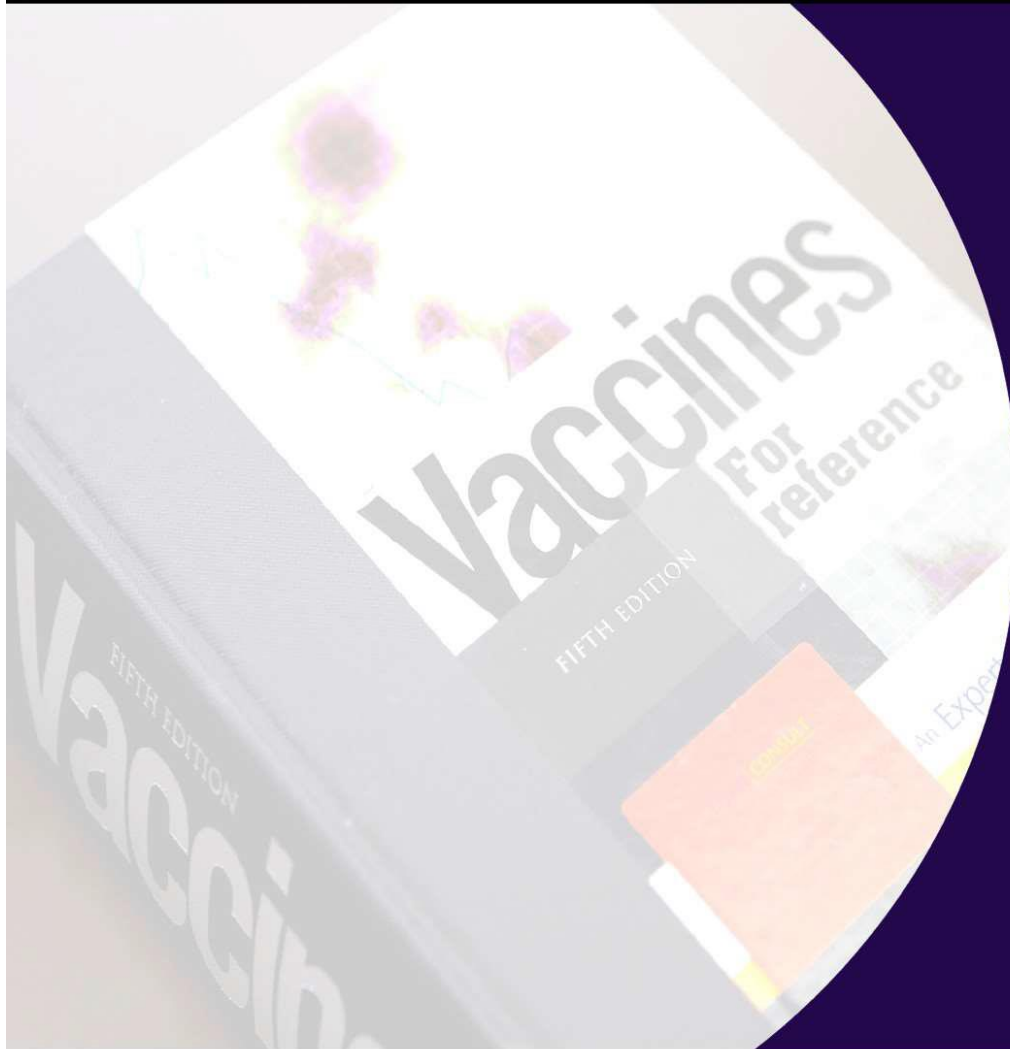
sanofi

•
Helene Janosczyk

Medical Science Liaison

Sanofi Vaccines

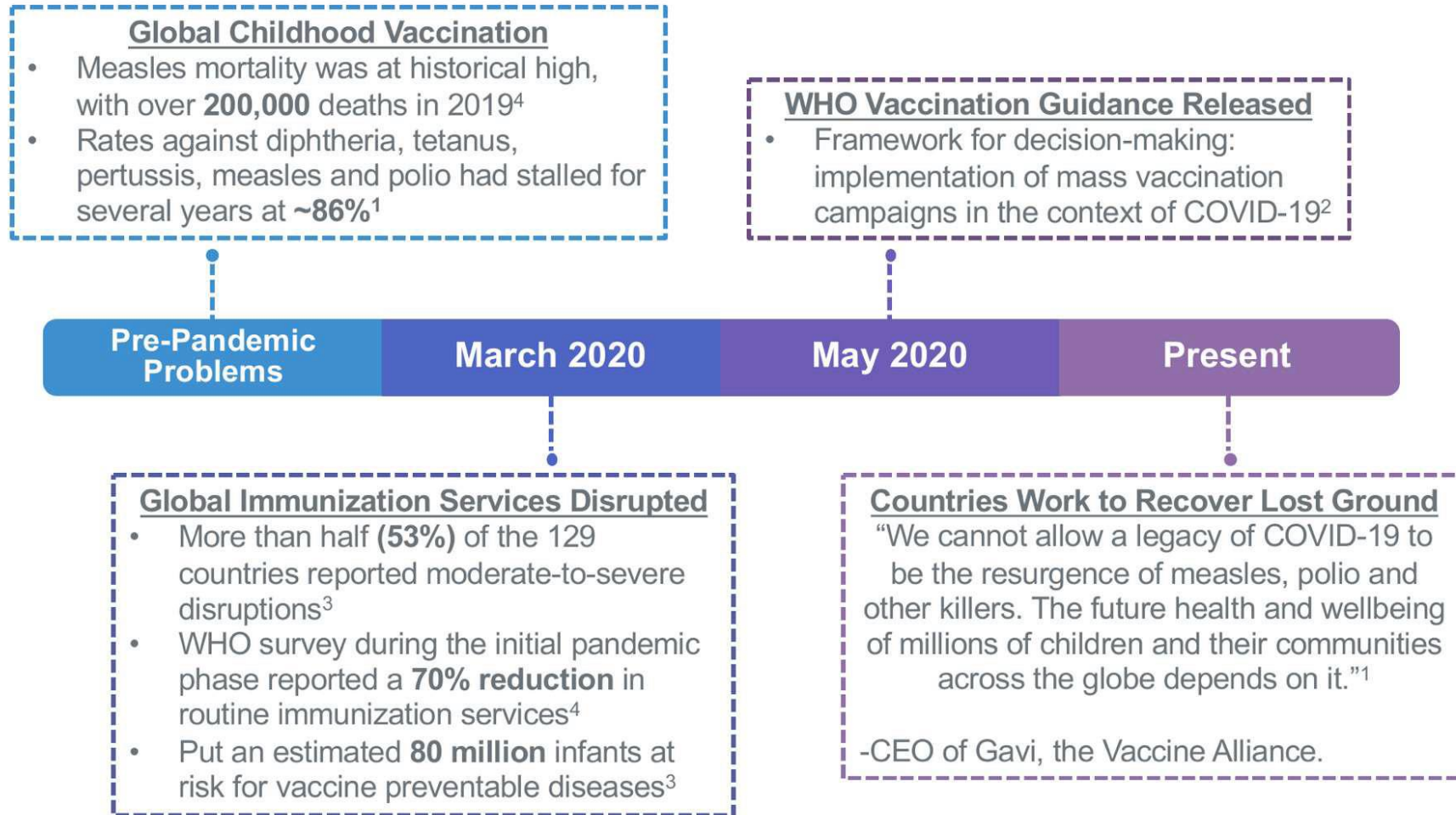
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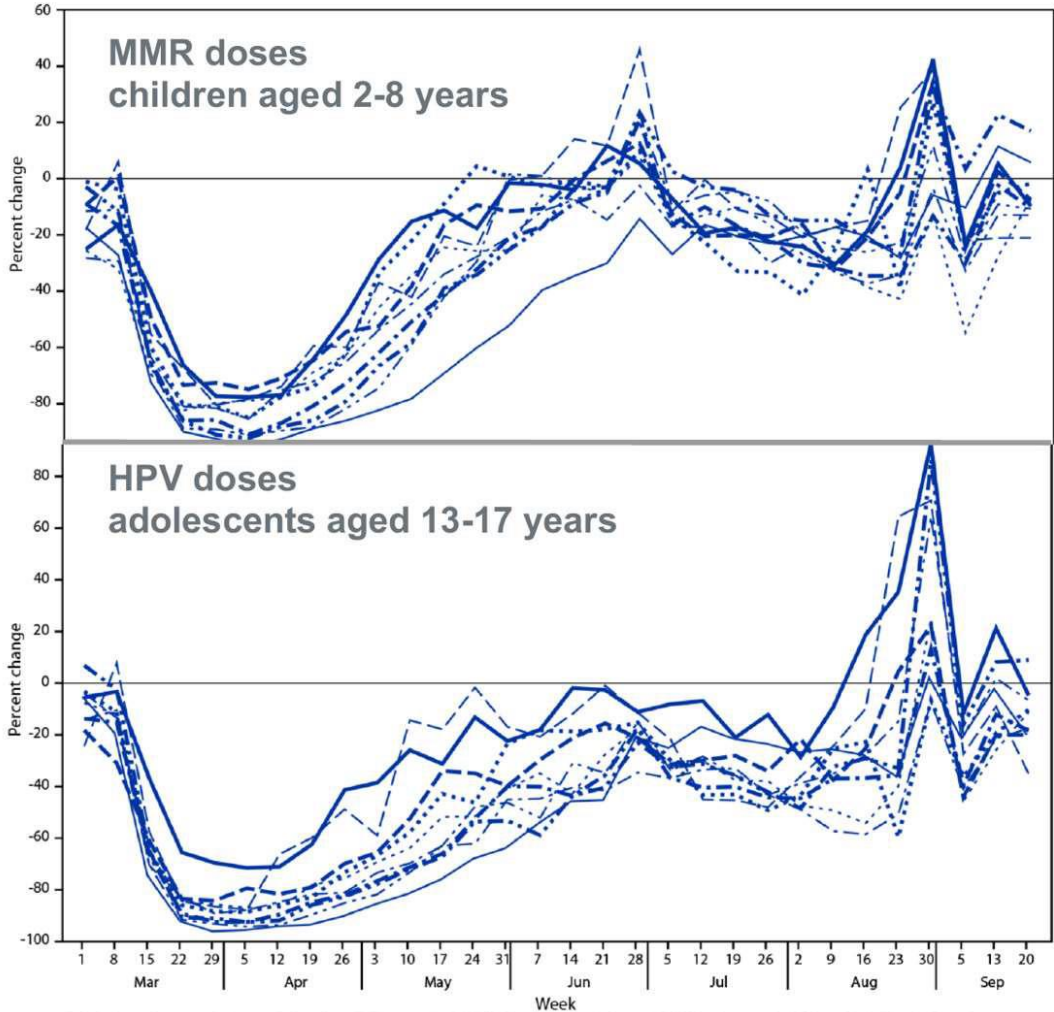
Re-establishing Vaccine Coverage Post COVID-19

Declining Immunization Rates: A Global Concern



Declining Immunization Rates: United States

Comparing Percent Change in MMR & HPV Doses Administered in 10 U.S. Jurisdictions: 2018/2019 VS. 2020



None of the jurisdictions demonstrated a sustained or prolonged increase in the number of weekly doses administered above prepandemic administration levels, which would have been necessary to catch up children and adolescents who missed routine vaccinations

- Idaho
- Iowa
- Louisiana
- Michigan
- Minnesota
- New York City
- North Dakota
- Oregon
- Washington
- Wisconsin

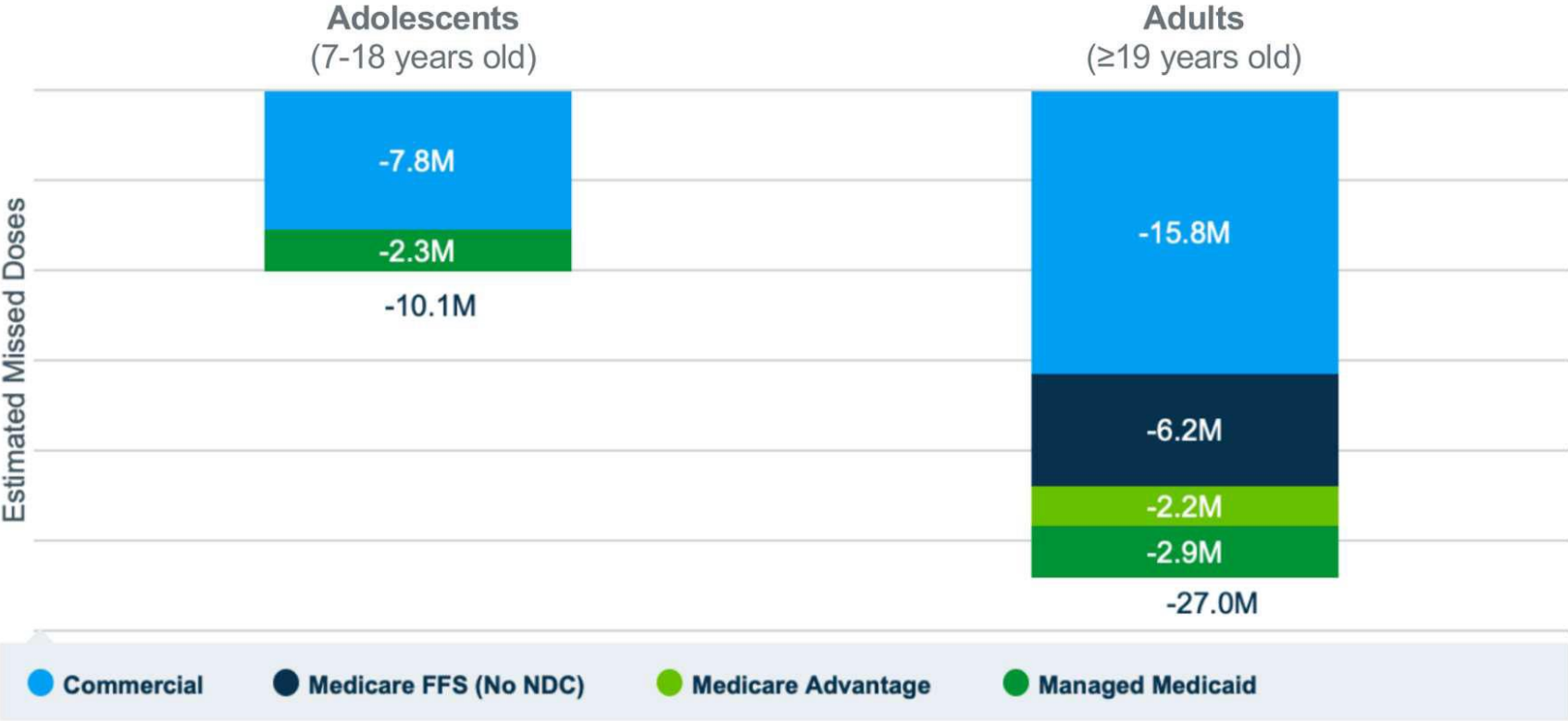
Reference: Table adapted from Murthy BP et al. MMWR Morb Mortal Wkly Rep 2021;70:840–845. Accessed 7 March 2022

Changes in Claims for All ACIP-Recommended Adolescent & Adult Vaccines 2020 to 2021 Compared to 2019



Reference: Table from Liow, C et al. Avalere. January 2022. <https://avalere.com/insights/declines-in-routine-adult-and-teen-vaccinations-continued-in-2021>
 Accessed 8 March 2022

Estimated Missed Doses for All Vaccine Claims Across Markets, January 2020 - July 2021 VS. 2019



37.1 million potentially missed doses from January 2020 to July 2021

Reference: Table from Liow, C et al. Avalere. January 2022. <https://avalere.com/insights/declines-in-routine-adult-and-teen-vaccinations-continued-in-2021>
Accessed 8 March 2022

Majority of U.S. Adults Are Missing Routine Vaccinations

Despite the benefit of vaccines, at least **3 out of every 4 adults** are missing one or more routinely recommended vaccines, made worse by the COVID-19 pandemic¹

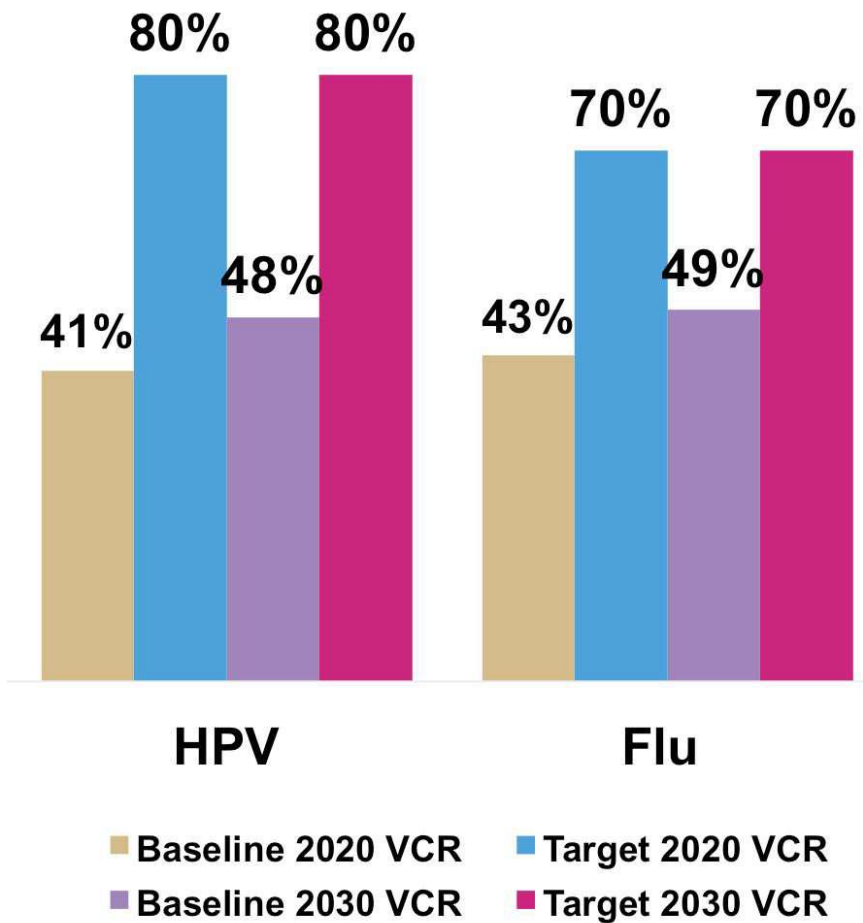


Status: Developmental 

Increase the proportion of adults age 19 years or older who receive recommended age-appropriate vaccines

This objective currently has developmental status, meaning it is a **high-priority public health issue** that has evidence-based interventions to address it, but doesn't yet have reliable baseline data²

Healthy People 2030 Objectives: General Vaccination



Increase the proportion of adolescents who receive recommended doses of the HPV vaccine²

Increase the proportion of persons who are vaccinated annually against seasonal influenza²

Baseline 2020 VCR for HPV was calculated using the average of the percentage of male and female adolescents aged 13 through 15 years who received 2 or 3 doses of the HPV vaccine as recommended. Baseline 2020 VCR for Influenza was calculated using the average of the percent of children aged 6 months through 17 years and adults aged 18 and older who are vaccinated annually against seasonal influenza.

Reference(s): (1) Office of Disease Prevention and Health Promotion. October 2020. <https://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases>. Accessed 11 February 2021. (2) US Department of Health and Human Services and Office of Disease Prevention and Health Promotion. December 2020. <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination>. Accessed

Healthy People 2030 Objectives: General Vaccination

Increase the proportion of pregnant women who receive 1 dose of the tetanus-diphtheria-acellular pertussis (Tdap) vaccine during pregnancy (Developmental)²



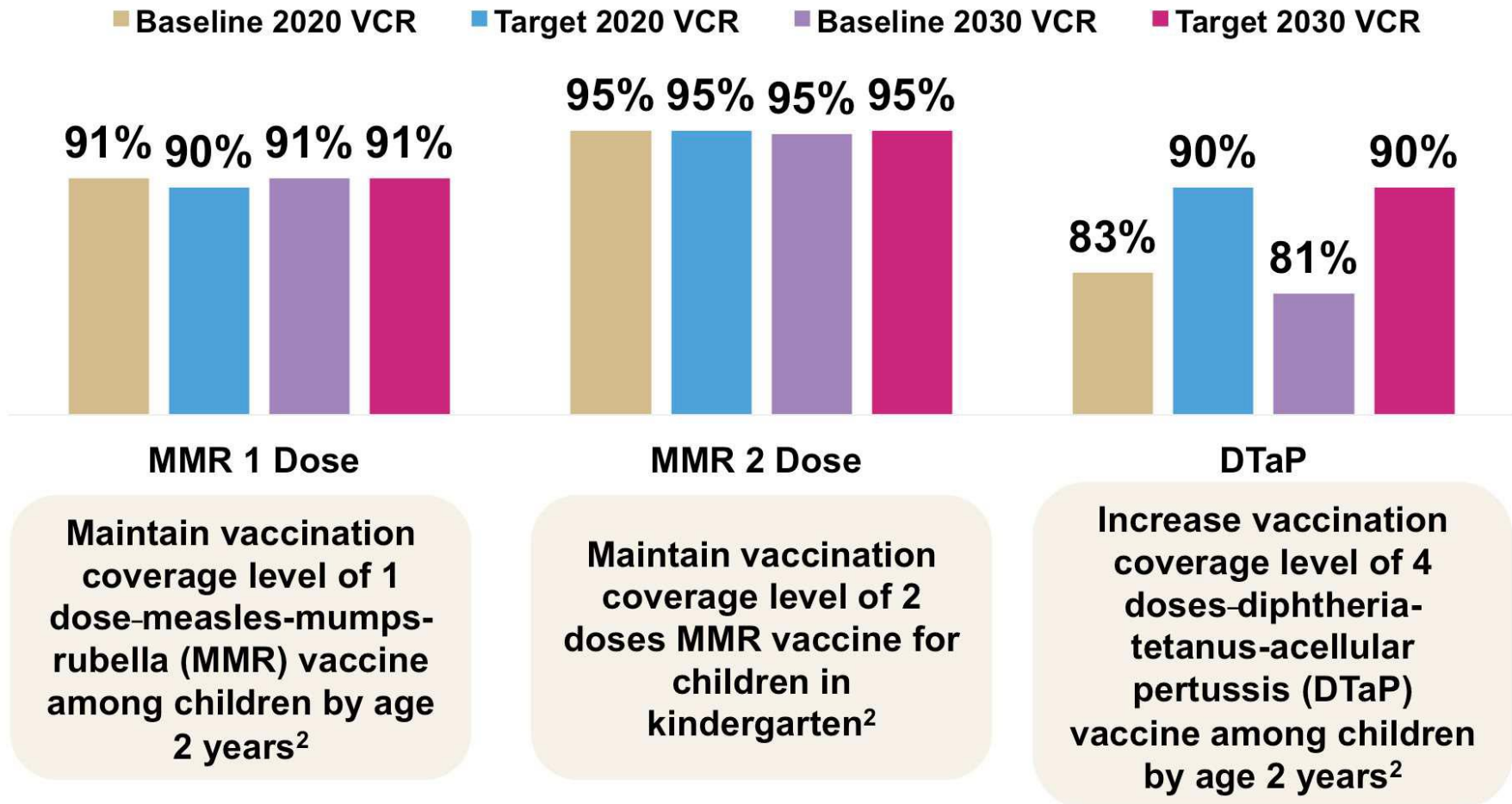
"Mom and toddler waiting in a doctor's office" by SELF Magazine is licensed with CC BY 2.0. To view a copy of this license, visit <https://creativecommons.org/licenses/by/2.0/>

During the 2019–2020 season, only 40% of pregnant women received the tetanus, diphtheria, and pertussis (Tdap) vaccine.¹

Objective currently has developmental status, meaning it is a high-priority public health issue that has evidence-based interventions to address it, but doesn't yet have reliable baseline data. Once baseline data are available, this objective may be considered to become a core Healthy People 2030 objective.

Reference(s): (1) Razzaghi H, et al.. Morb Mortal Wkly Rep. 2020;69:1391-1397. <https://www.cdc.gov/mmwr/volumes/69/wr/mm6939a2.htm>. (2) US Department of Health and Human Services and Office of Disease Prevention and Health Promotion. December 2020. <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination>. Accessed 11 February 2021.

Healthy People 2030 Objectives: Childhood Vaccinations



Baseline and Target 2020 VCR(s) obtained from the following: IID-7.1 (maintain an effective vaccination coverage level of 4 doses of the diphtheria-tetanus-acellular pertussis (DTaP) vaccine among children by age 19 to 35 months), IID-7.4 (maintain an effective vaccination coverage level of 1 dose of MMR vaccine among children by age 19 to 35 months), and IID-10.2 (maintain the vaccination coverage level of 2 doses of MMR vaccine for children in kindergarten).

Reference(s): (1) Office of Disease Prevention and Health Promotion. October 2020. <https://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases>. Accessed 11 February 2021. (2) US Department of Health and Human Services and Office of Disease Prevention and Health Promotion. December 2020. <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination>. Accessed 11 February 2021.

Healthy People 2030 Objectives: Childhood Vaccinations

Reduce the proportion of children who received 0 doses of recommended vaccines by age 2 years.¹



"Happy baby girl - Myrtle Beach State Park" by Ryan Smith Photography is licensed with CC BY-NC-ND 2.0. To view a copy of this license, visit <https://creativecommons.org/licenses/by-nc-nd/2.0/>

Baseline: 1.3% of children born in 2015 had received 0 doses of recommended vaccinations by their 2nd birthday¹

Target: 1.3% (maintain baseline)¹

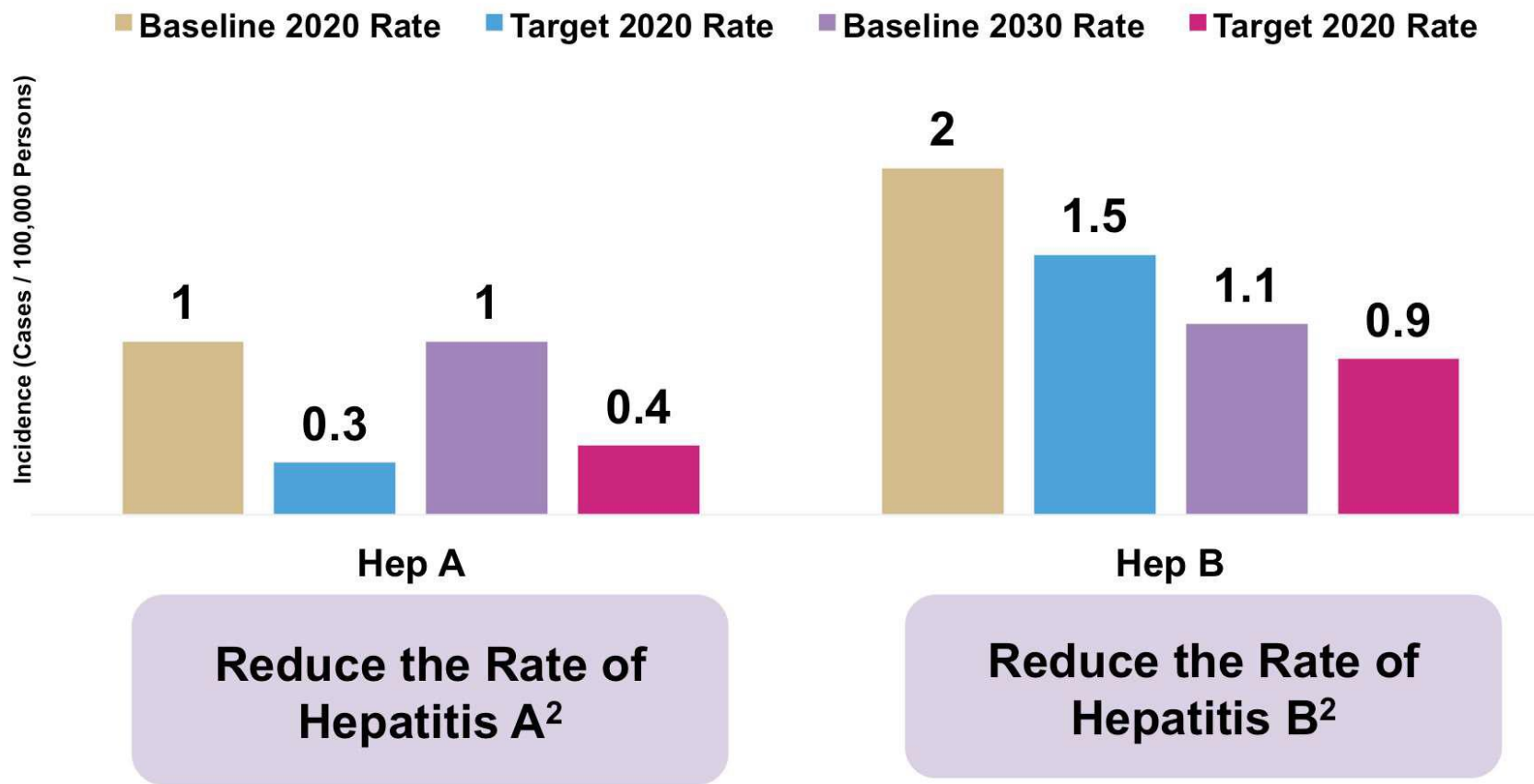


Percentage of children that received 0 doses of recommended vaccines

Reference(s): (1) US Department of Health and Human Services and Office of Disease Prevention and Health Promotion. December 2020 <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination>. Accessed 11 February 2021.

Healthy People 2030 Objectives: Infectious Disease

Rates of Hepatitis A & B



Reference(s): (1) Office of Disease Prevention and Health Promotion. October 2020. <https://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases>. Accessed 11 February 2021. (2) US Department of Health and Human Services and Office of Disease Prevention and Health Promotion. December 2020 <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination>. Accessed 11 February 2021.

Healthy People 2030 Objectives: Infectious Disease



Reduce infections due to HPV types prevented by the 9-valent vaccine in young adults¹



Maintain the elimination of measles, rubella, congenital rubella syndrome (CRS), and acute paralytic poliomyelitis¹



Increase the proportion of immunization information systems that track adult immunizations across the lifespan (Developmental)¹



Increase the proportion of adults age 19 years or older who receive recommended age-appropriate vaccines (Developmental)¹

Objective currently has developmental status, meaning it is a high-priority public health issue that has evidence-based interventions to address it, but doesn't yet have reliable baseline data. Once baseline data are available, this objective may be considered to become a core Healthy People 2030 objective.

Reference(s): (1) US Department of Health and Human Services and Office of Disease Prevention and Health Promotion. December 2020 <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination>. Accessed 11 February 2021.

How HCPs Benefit From Healthy People 2030

Organizations across the country use Healthy People objectives to set their own priorities



[Informational
Flyer](#)

National Vaccine Advisory Committee's (NVAC) Standards for Adult Immunization Practice

National Adult and Influenza Immunization Summit (NAIIS) members call on providers across the healthcare spectrum to take actions to improve vaccination of adults

Assess

- Assess the vaccination status of patients at all clinical encounters

Utilize

- Utilize a jurisdiction's immunization information system (IIS) to view patients' prior vaccinations

Identify

- Identify vaccines patients need, then clearly recommend needed vaccines

Offer

- Offer needed vaccines or refer patients to another provider for vaccination

Document

- Document vaccinations given, including in the jurisdiction's IIS.

Measure

- Measure vaccination rates of providers' patient panels; making changes to clinic patient flow and addressing barriers

Catch Up on Well-Child Visits and Recommended Vaccinations

During the COVID-19

- pandemic families have been doing their part by staying at home as much as possible to help stop the spread of COVID-19
- many children missed check-ups and recommended childhood vaccinations

Return to school

- As children return to in-person learning and care, it's particularly important for parents to work with their child's doctor or nurse to make sure they get caught up on missed well-child visits and recommended vaccines.

LET'S PLAY CATCH-UP ON ROUTINE VACCINES

WELL-CHILD CHECKUPS ARE ESSENTIAL

- The doctor **tracks your child's growth and development**
- You can **ask the doctor questions** about your child's health
- Your child **gets recommended vaccinations**

VACCINATION HELPS PROTECT YOUR CHILD'S HEALTH

- Routine vaccinations during childhood help **prevent 14 diseases**
- Among children born from 1994-2018, vaccinations will prevent an estimated **936,000 early deaths, 8 million hospitalizations, and 419 million illnesses**

CDC and the American Academy of Pediatrics (AAP) recommend every child continues to receive recommended vaccinations during the COVID-19 pandemic

CDC Child & Adolescent Immunization Schedules, 2022

Table 1 Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2022

These recommendations apply to children with certain risk factors. For details on risk factors and start times, please see the schedule at the end of the schedule. The schedule is organized by age group. The schedule is organized by age group. The schedule is organized by age group.

Legend:

- Range of recommended ages for all children
- Range of recommended ages for catch-up vaccination
- Range of recommended ages for the same high-risk group
- Recommended until age 18
- Recommended until age 18 with a catch-up period
- Recommended until age 18 with a catch-up period and a booster
- No catch-up period
- No catch-up period

Table 1
Recommended Schedule
(Based on age)

Table 2 Recommended Catch-up Immunization Schedule for Children and Adolescents Who Start Late or Who Are More than 1 Month Behind, United States, 2022

This table provides catch-up or booster immunization recommendations for children who have not received all recommended immunizations by the age of 18 years. The schedule is organized by age group. The schedule is organized by age group.

Legend:

- Range of recommended ages for all children
- Range of recommended ages for catch-up vaccination
- Range of recommended ages for the same high-risk group
- Recommended until age 18
- Recommended until age 18 with a catch-up period
- Recommended until age 18 with a catch-up period and a booster
- No catch-up period
- No catch-up period

Table 2
Catch-up Immunization Schedule
(Used for those who start late or are ≥ 1 month behind)

Table 3 Recommended Child and Adolescent Immunization Schedule by Medical Indication, United States, 2022

Always use this table in conjunction with Table 1 and the Notes that follow.

Legend:

- Indicated according to the schedule
- Indicated according to the schedule and the Notes
- Indicated according to the schedule and the Notes, but only if the child is at high risk for the disease
- Indicated according to the schedule and the Notes, but only if the child is at high risk for the disease and has a medical condition
- Indicated according to the schedule and the Notes, but only if the child is at high risk for the disease and has a medical condition and is also at high risk for the disease
- Indicated according to the schedule and the Notes, but only if the child is at high risk for the disease and has a medical condition and is also at high risk for the disease and has a medical condition

Table 3
Immunization Schedule by
Medical Indication

How to use the child and adolescent immunization schedule

- 1** Determine recommended vaccine by age (**Table 1**)
- 2** Determine recommended interval for catch-up vaccination (**Table 2**)
- 3** Assess need for additional recommended vaccines by medical condition or other indication (**Table 3**)
- 4** Review vaccine types, frequencies, intervals, and considerations for special situations (**Notes**)
- 5** Review contraindications and precautions for vaccine types (**Appendix**)

Review vaccine types, frequencies, intervals, and considerations for special situations.

Table 2: Catch-up Immunization 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, 2022

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.**

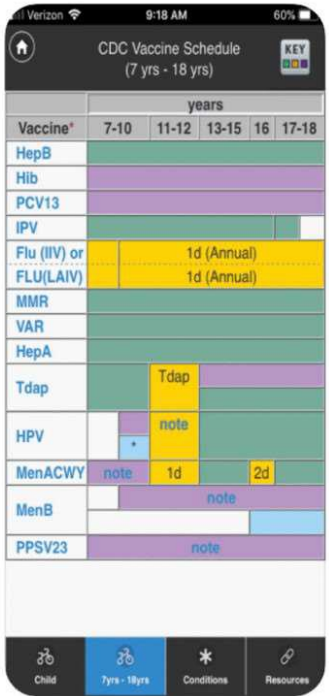
Children age 4 months through 6 years					
Vaccine	Minimum Age for Dose 1	Minimum Interval Between Doses			
		Dose 1 to Dose 2	Dose 2 to Dose 3	Dose 3 to Dose 4	Dose 4 to Dose 5
Hepatitis B	Birth	4 weeks	8 weeks and at least 16 weeks after first dose minimum age for the final dose is 24 weeks		
Rotavirus	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
<i>Haemophilus influenzae</i> 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 st 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 [®] , Hiberix [®]), 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 st birthday and second dose was administered at younger than 15 months; OR if both doses were PedvaxHIB [®] and were administered before the 1st 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 if first dose was administered at age 24 months or older 4 weeks if first dose was administered before the 1 st birthday 8 weeks (as final dose for healthy children) if first dose was administered at the 1 st 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	

Additional Tools for HCP for Immunization Catch-Up

1. CDC Vaccine Schedules App¹



CDC Vaccine Schedules 12+
Centers For Disease Control and Prevention



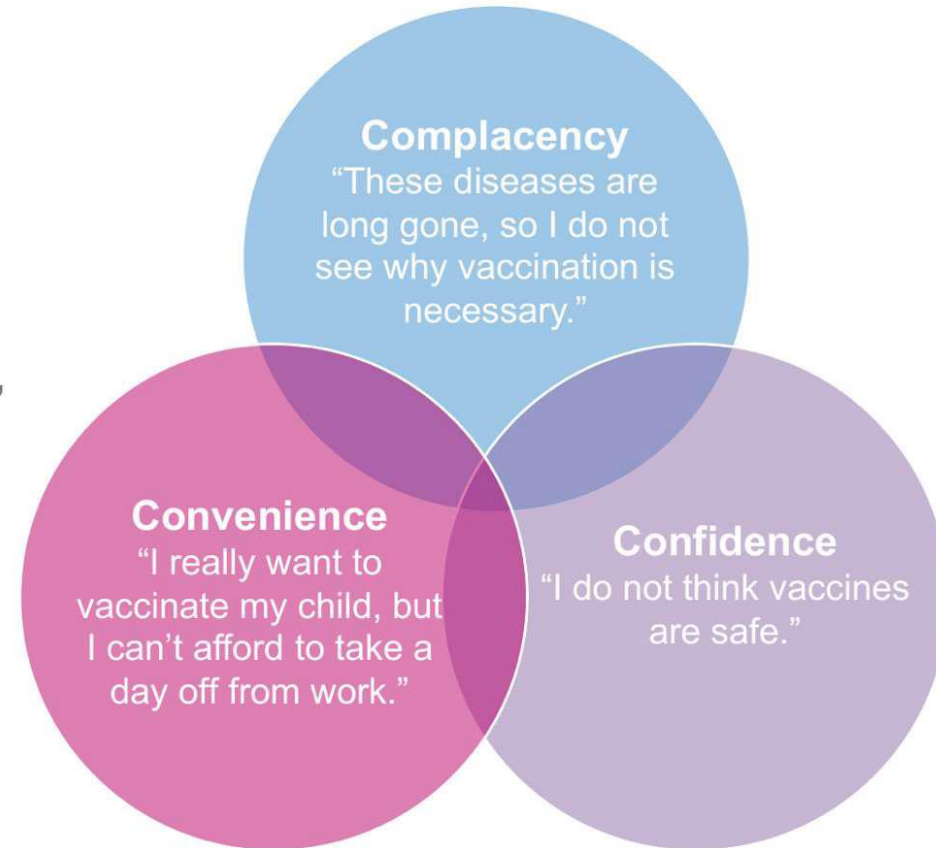
2. CDC has developed Catch-up Guidance Job Aids to assist HCPs²

- The aids are to be used to interpret Table 2 of the child & adolescent immunization schedule
- The aids are based on an individual's CURRENT age

References: 1. CDC. 2022 <https://www.cdc.gov/vaccines/schedules/hcp/schedule-app.html> Accessed 7 March 2022 2. CDC. Immunization Schedules. 2022. <https://www.cdc.gov/vaccines/schedules/hcp/imz/catchup.html> Accessed 7 March 2022

What is Vaccine Hesitancy?

- Vaccine hesitancy refers to delay in acceptance or refusal of vaccination despite availability of vaccination services
- Vaccine hesitancy is complex, context specific, varying across time, and vaccine specific
- It is influenced by factors such as **complacency, convenience** and **confidence**



World Health Organization: Urgent Global Health Challenges in 2020s

- Climate crisis
- Health care delivery in areas of conflict
- Underinvestment in health workers
- Threat of antimicrobial resistance
- Harnessing new technologies
- Expanding access to medicines
- **Earning public trust**
- Stopping infectious diseases
- Health care equity
- Epidemic preparedness
- Unsafe products
- Adolescent safety
- Health care sanitation



“Public health is compromised by the uncontrolled dissemination of misinformation in social media, as well as through an erosion of trust in public institutions. **The anti-vaccination movement has been a significant factor** in the rise of deaths in preventable diseases.” - WHO

Erosion of Vaccine Confidence



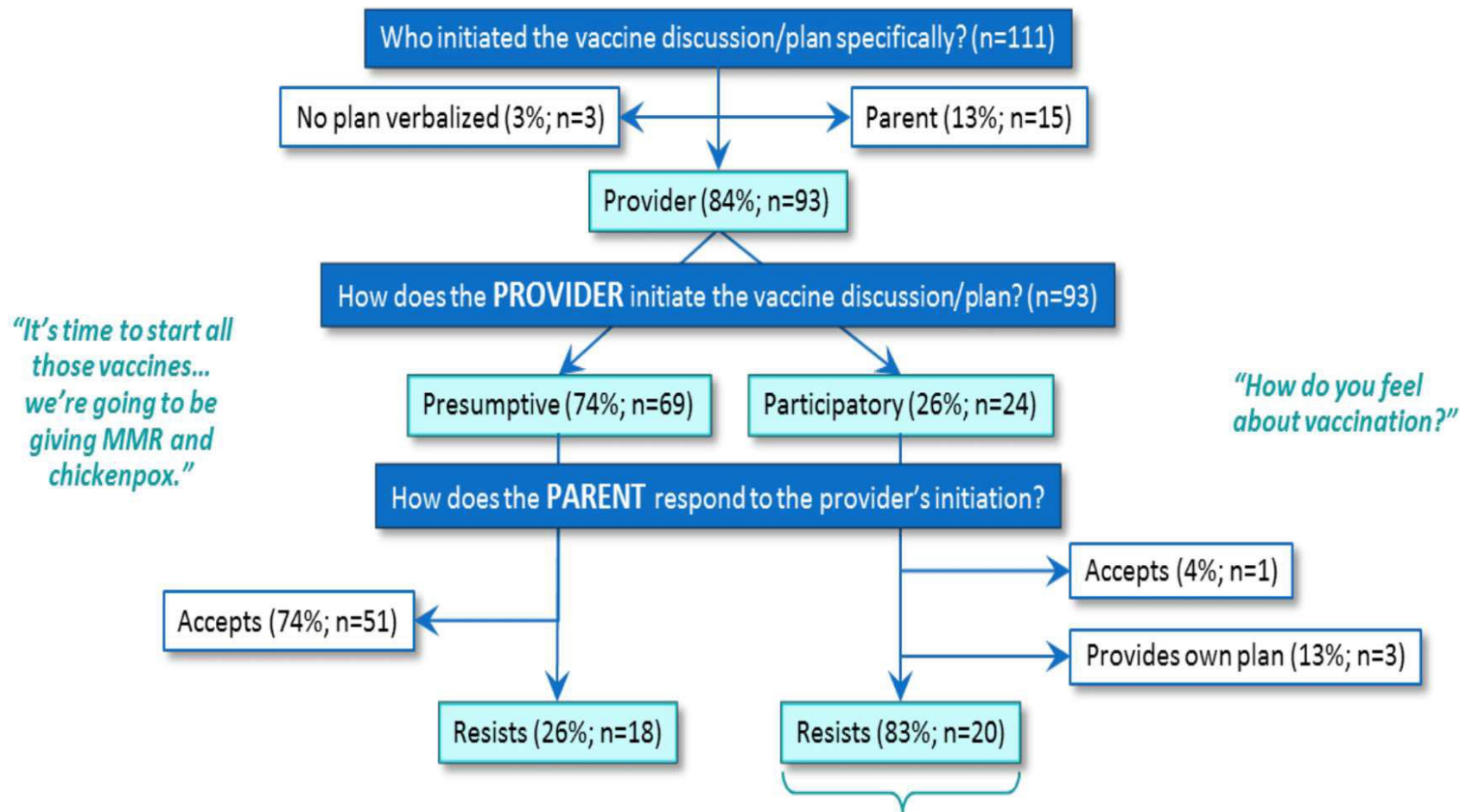
Types of events that may erode trust include:

- Vaccine **reactions**
- Events that are not causally linked with vaccination but are believed to be so (by the public, media or healthcare workers)
- Critical media **reports**
- Social media **stories** or **rumors**
- New critical **studies**
- Vaccine **recalls** or temporary **suspensions** of a vaccine
- **Replacements** of one vaccination product (producer) with another

How to Broach the Topic of Vaccines With Parents



Don't Be Afraid to Use a Presumptive Approach to Immunization Communication: Be a Champion for Vaccination



$P < .001$; Adjusted OR (95% CI): 17.5 (1.2, 253.5)

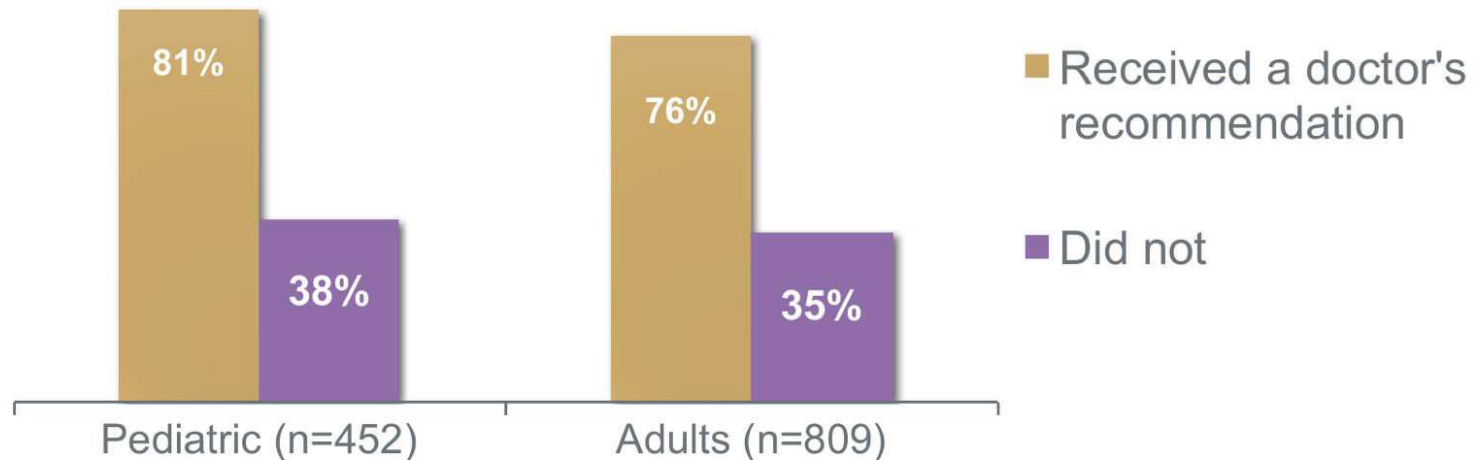
^aReproduced with permission from *Pediatrics*, Vol. 132, Pages 1037-1046, Copyright © 2013 by the American Academy of Pediatrics.

HCP Recommendations Drive Flu Vaccinations

Percent Receiving Vaccination in Doctor's Office

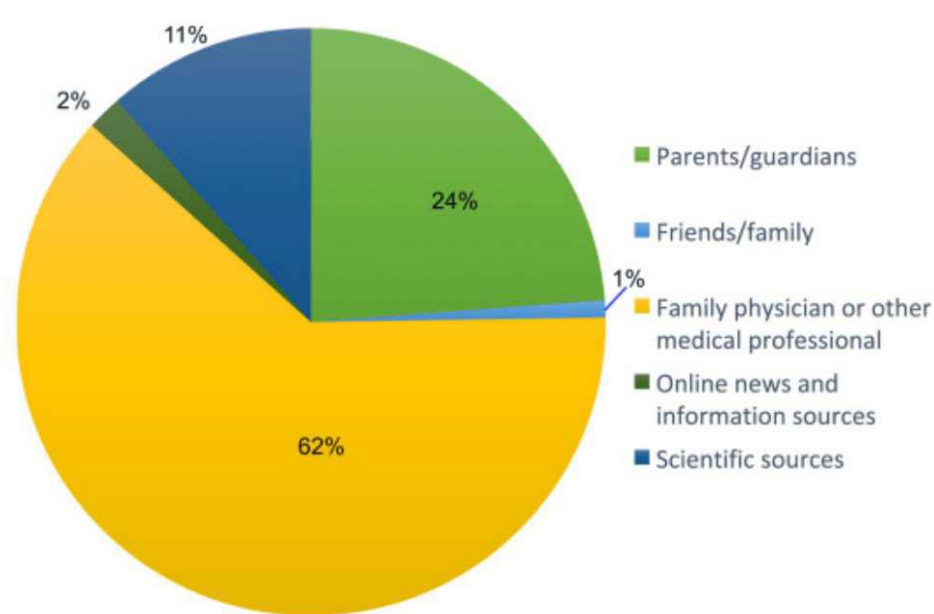
73%	53%
Pediatric (n=427)	Adults (n=835)

Percent Receiving Vaccination With and Without a Doctor's Recommendation

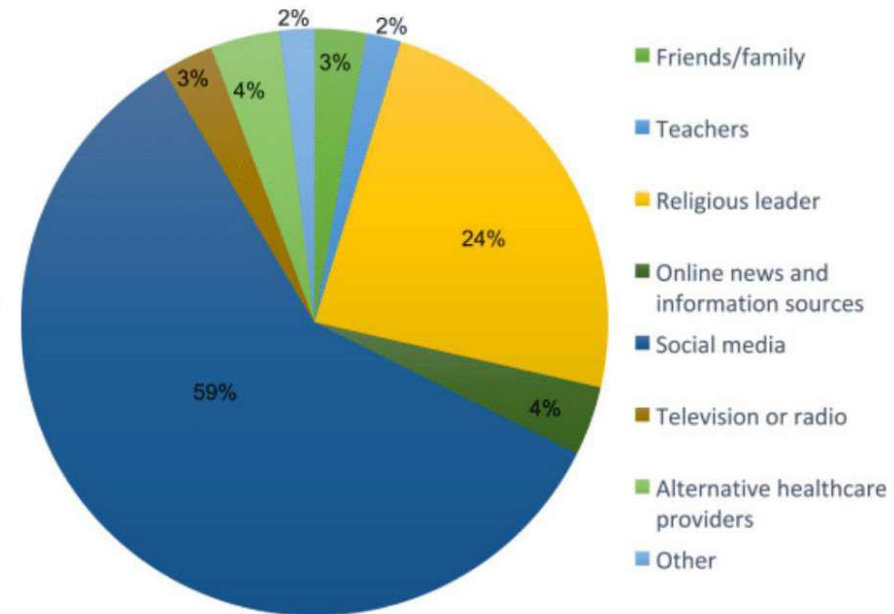


HCP: Adolescents Most Important Source of Information About Vaccines

Adolescents identified physicians as their primary and most trusted source of information about vaccines.



Trusted sources for vaccine information (n = 105)



Least trusted sources for vaccine information (n = 105)

Methods: A cross-sectional survey of public high school students using a paper-based questionnaire in a region with a high rate of vaccine acceptance to assess sources they trusted most for vaccine information was conducted. Surveys were administered over a one-week period in the fall of 2017.

Limitations: small sample size, only obtained parental consent and student assent from a subset of students given the forms and not all students successfully completed the questionnaire, selection bias likely occurred regarding which students took consent forms to their parents, which parents agreed to allow their child to participate in a study on vaccination, and which students took the time to return a completed questionnaire, limited demographic data was collected, study was only conducted at one school in a region of high vaccine acceptance.

For More Information

- Centers for Disease Control and Prevention:
<https://www.cdc.gov/vaccines/adults/index.html>
- Immunization Action Coalition: *<http://www.immunize.org/handouts/adult-vaccination.asp>*
- National Adult and Influenza Immunization Summit:
<https://www.izsummitpartners.org/adult-immunization-standards/>
- National Adult Vaccination Program (NAVP): *<https://www.navp.org/>*

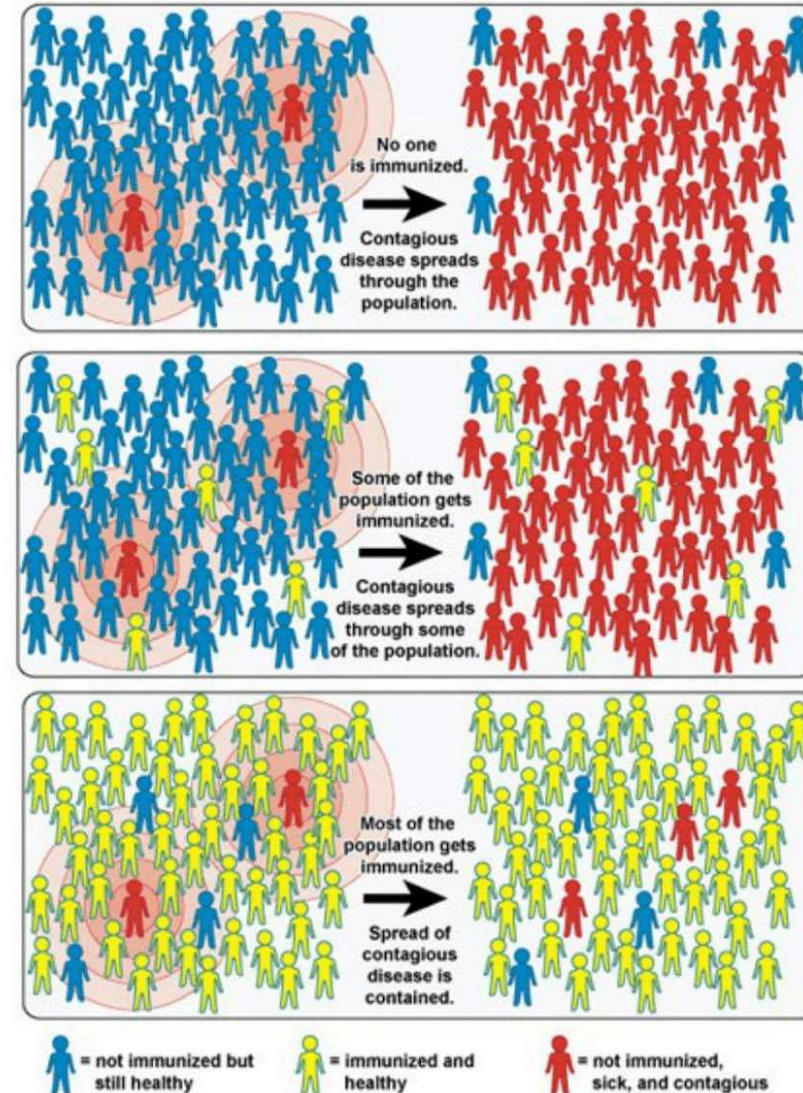
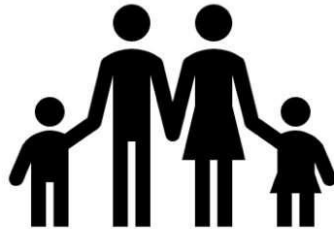
Online Vaccine Hesitancy E-Modules

Visit vaccines.com and click on “online learning for healthcare providers” to access free e-modules related to vaccine hesitancy



Other Considerations: Herd Immunity/Community Protection

- R_0 = Basic Reproductive Number = Herd Immunity Threshold¹
- Vaccination provides indirect protection of non-immune individuals by the presence and proximity of immune persons²
- Protects those too young for vaccination, immunocompromised or those unable to get vaccine due to contraindications²



Influenza Disease Burden Averted Due to Vaccination

the benefits of flu vaccination **2019-2020**

Nearly **52%** of the U.S. population aged 6 months and older got a flu vaccine during the 2019-2020 flu season, and this prevented an estimated:

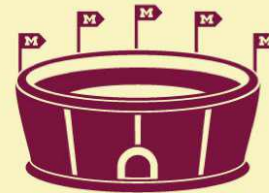
7.5
million
flu illnesses

More than the
combined population of
Kentucky and Kansas



105,000
flu hospitalizations

Enough people to fill
Michigan Stadium at the
University of Michigan



6,300
flu deaths

Equivalent to saving
about 17 lives per day
over the course of a year



get vaccinated
www.cdc.gov/flu

Summary

- Prior to the COVID-19 pandemic, routine vaccination rates had stalled, and instances of vaccine preventable outbreaks were increasing¹
- COVID-19 pandemic is declared in March 2020 halting numerous mass vaccination clinics and routine primary care visits²
- Routine vaccination rates initially plummet at start of COVID-19 pandemic, and we have yet to see full recovery to pre-pandemic vaccination rates^{3,4}
- Purposeful actions like **National Vaccine Advisory Committee's (NVAC) Standards for Adult Immunization Practice** and **CDC catch-up schedules** are needed to get routine vaccines back on track



We cannot let the COVID-19 pandemic unravel years of progress in routine immunization and expose millions to deadly, preventable diseases¹

Thank you!

For more information on this topic or other vaccine-preventable illnesses, please contact



Helene Janosczyk
helene.janosczyk@sanofi.com

Stories From the Frontline

Eric Berger, MD

General and Developmental Pediatrician

Managing Partner



Disclaimers and Disclosures

- I'm not an expert in behavioral change
- I'm not an expert in logistics and systems
- I'm not a vaccine expert!





- Approximately 11,000 patients ---- 11 Providers
- NCQA top tier since 2011
- Blue Cross Highest Performing Practice over 10 years
- PDOH Metrics– consistently beating city averages in vaccine metrics (for all but 1 shot– more to come on this!)

You must lead the
horse to water ---

No chance if
you don't get
them there



Swiss Cheese Model

*Appointment Reminders

*Immunization Reports

*Well Visit Reports



Monthly Immunization Reports

Immunizations:

- At 13 months
- At 27 months

TO TRACK PATIENTS AT 2 DIFFERENT AGE RANGES:

1. 13-27 MONTHS
2. 27-72 MONTHS

BEHIND ON ANY AAP RECCOMENDED VACCINES.

Step 1:

RUN MONTHLY REPORTS TO CAPTURE ANY PATIENTS NEEDING VACCINES.

Step 2:

SEND THEM AN EMAIL AND TEXT MESSAGE LETTING THEM KNOW THEY ARE BEHIND.

Step 3:

SCHEDULE AN APPOINTMENT TO COME IN TO RECEIVE ANY VACCINATIONS THEY ARE BEHIND ON.

Twice Yearly Well Visit Reports

Well Visits:

- 0-2 years
- 2-6 years
- 6-13 years
- OVER 13

TO TRACK PATIENTS IN 4
DIFFERENT AGE GROUPS:

1. 0-2 YEARS
2. 2-6 YEARS
3. 6-13 YEARS
4. OVER 13

TO FIND ANYONE THAT IS
BEHIND ON WELLNESS CARE.

Step 1:

RUN BIENNIAL REPORTS TO CAPTURE ANY PATIENT BEHIND ON WELLNESS CARE.

Step 2:

SEND THEM AN EMAIL AND TEXT MESSAGE LETTING THEM KNOW THEY ARE BEHIND.

Step 3:

SCHEDULE THEM AN APPOINTMENT TO COME IN TO SEE THEIR PREFERRED PROVIDER FOR A WELLNESS CHECK.

It is not
enough



Who Do You Believe???



What does it take??

- Knowledge
- Empathy
- Carrots
- Sticks



THE MAN



The Clown (of late 90's)

Now it's even worse :

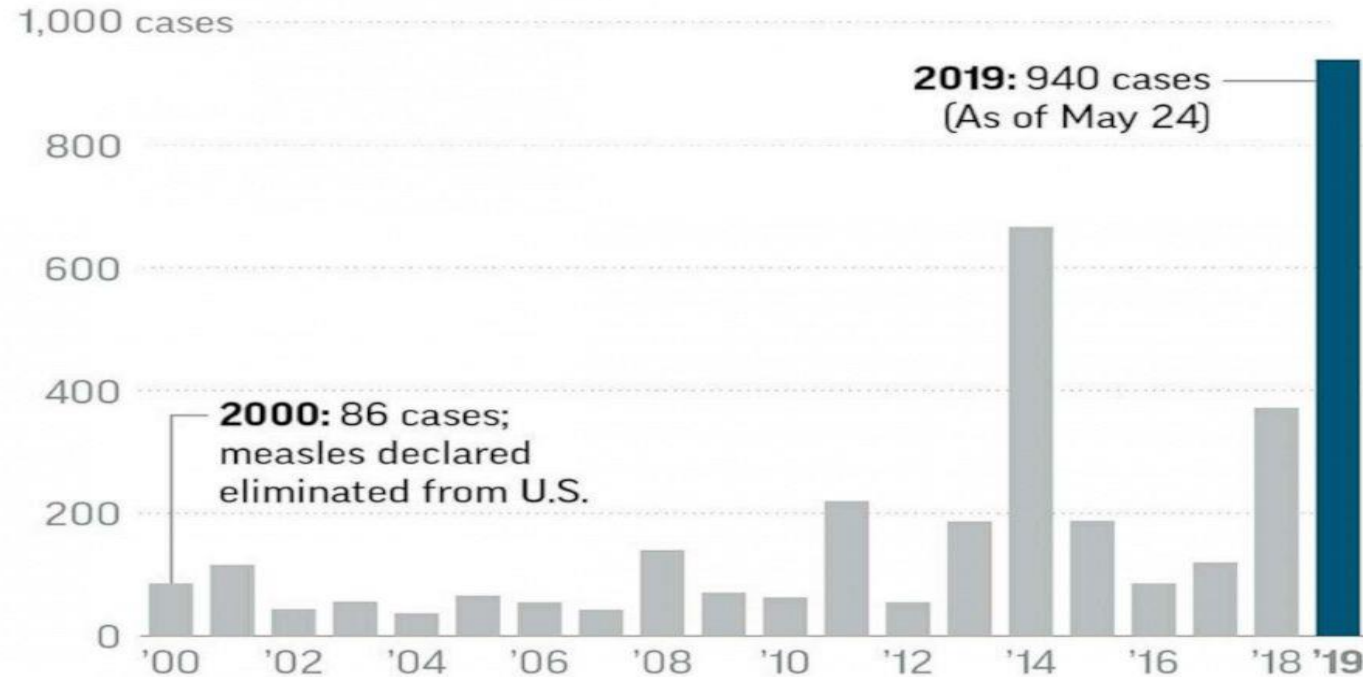
Pandemic of misinformation and distrust



Falling Vaccine Rates

Rising number of US measles cases

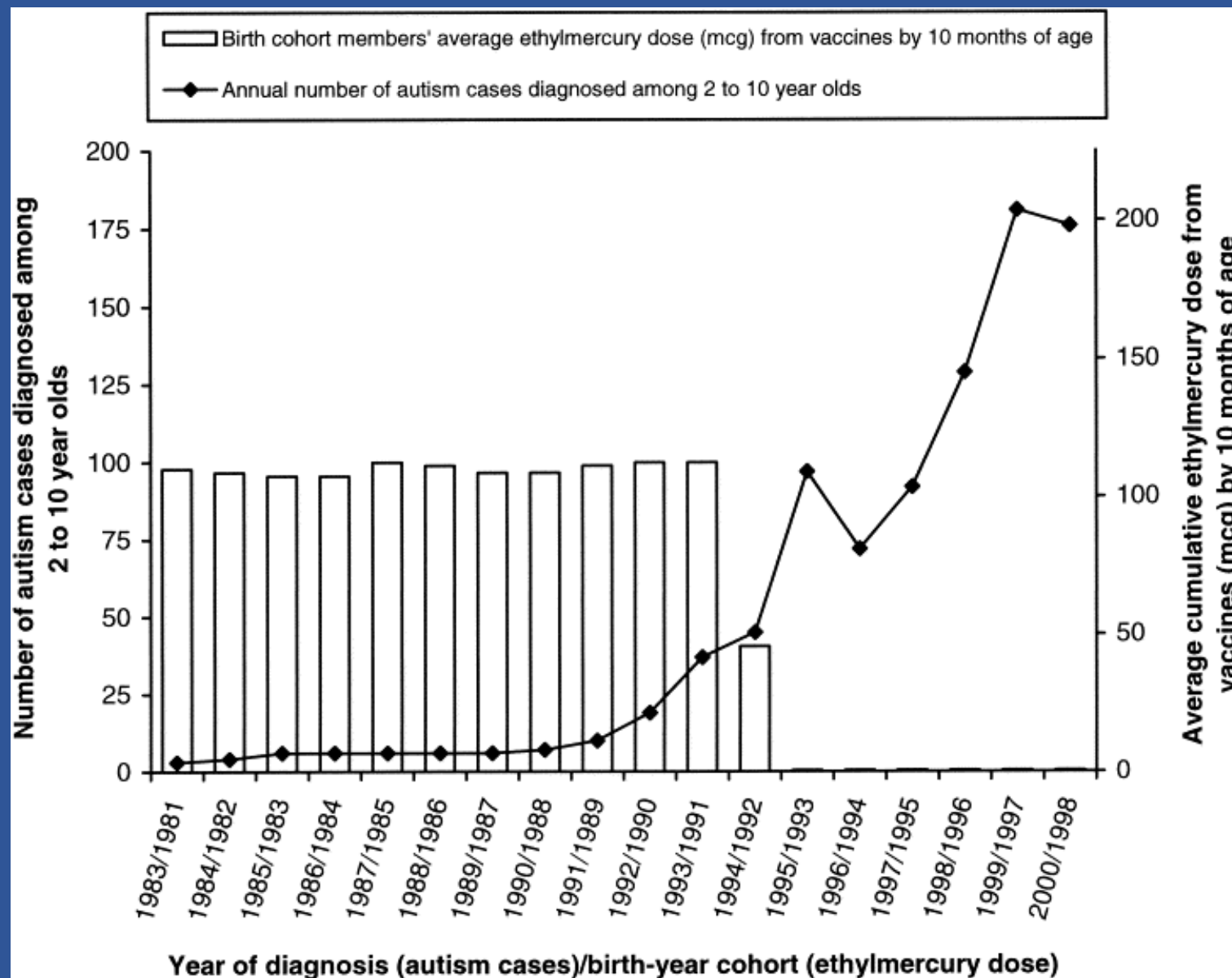
This year has seen the most measles cases since the disease was considered eliminated from the U.S. in 2000.



SOURCE: Centers for Disease Control and Prevention

AP

Vaccine Additives



Resources



The screenshot shows a web browser window displaying the Vaccine Education Center website. The browser's address bar shows the URL: <https://www.chop.edu/centers-programs/vaccine-education-center/msckid+390a9266cfa111eca6812541d26c27e8>. The website features a header image of two young girls smiling. Below the image, the title "Vaccine Education Center" is displayed in a teal font. Underneath the title are social media icons for Facebook, Twitter, YouTube, Instagram, and LinkedIn. A paragraph of text describes the center's mission: "The Vaccine Education Center at Children's Hospital of Philadelphia provides complete, up-to-date and reliable information about vaccines to parents and healthcare professionals. We are a member of the World Health Organization's (WHO) Vaccine Safety Net because our website". To the right of the text is a teal button that says "CONTACT US" and "VACCINE EDUCATION CENTER". The Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons, and the system tray with the date "5/9/2022" and time "10:07 AM".

[Vaccine Education Center](#)

The Vaccine Education Center at Children's Hospital of Philadelphia provides complete, up-to-date and reliable information about vaccines to parents and healthcare professionals. We are a member of the World Health Organization's (WHO) Vaccine Safety Net because our website

CONTACT US
VACCINE EDUCATION CENTER

Knowledge is Not Enough CCP meet CNN



What a Swell Guy

Robert W. Sears, MD, is a father of three, practicing pediatrician, and a co-author in the Sears Parenting Library. "Dr. Bob", as he likes to be called by his little patients, earned his medical degree at Georgetown University School of Medicine in 1995. He did his pediatric internship and residency at Children's Hospital Los Angeles, finishing in 1998.

He has a passion for healthy natural living and incorporates this knowledge into a style of disease treatment and prevention that you won't find in most doctors offices. By limiting antibiotic use, using science-based natural treatment approaches whenever possible, and focusing on good nutrition and immune system health, Dr. Bob takes preventative medicine to a whole new level. His commitment to breastfeeding success for all his patients also helps babies get a right start in life.

Dr. Bob is committed to enjoying a slow-paced, casual atmosphere in the office, providing long checkups, giving parents the flexibility to ask for house calls at home when needed and being one of the very few Orange County pediatricians to be available after hours, overnight, and on weekends for phone calls and home visits. Because he is not contracted with any insurance companies he is able to focus his attention 100% on just being a doctor without having to worry about the business side of running an insurance-based office. His patients take care of billing their own insurance themselves and find that once they learn the process it is very easy.



Empathy

Vaccines are scary
BUT..... What's the
alternative?

Measles

Chicken Pox

Pneumococcal Disease

HIB Disease

Pertussis

COVID (myocarditis, "long covid")



Carrots and Sticks



Center City Pediatrics Mandatory (Minimum) Vaccine Compliance Schedule

Maximum Age Limit	HiB (4-dose)	DTaP (or Tdap)	PCV13 (Prevnar-	MMR	Varicella
3 months, 0 days	Dose #1	Dose #1	Dose #1		
5 months, 0 days	Dose #2	Dose #2	Dose #2		
7 months, 0 days	Dose #3	Dose #3	Dose #3		
16 months, 0 days	Dose #4		Dose #4	Dose #1	Dose #1
19 months, 0 days		Dose #4			
7 years, 0 days		Dose #5		Dose #2	Dose #2
13 years, 0 days		Tdap			

The Challenge of HPV

The screenshot displays the Allscripts Professional EHR interface for a patient named Frank Test. The patient's information includes a birth date of 6/16/2015, age of 6y 10m, sex of Male, and insurance carrier of Unknown. Key clinical data includes allergies to insect bites, a recent weight of 35.56 lb (16.13 kg), a BMI of 14.17 kg/m², and a recent height of 42 inches. The patient's usual caregiver is Admin, CTB, and there are no documented appointments or web accounts. The patient problem list shows several issues, with 'HPV vaccine discussion and caregiver refusal' highlighted. The current plans section includes a note about the HPV vaccine discussion being completed.

TEST, Frank
6/16/2015 | 6y 10m Male | Insurance Carrier Unknown | #126190

Allergies
Insect Bites

Recent Weight 35.56 lb (16.13 kg)...
Recent BMI 14.17 kg/m² (07 N...
Recent Height (inch) 42 in (07 NOV 2018) -
Blood Pressure

Usual Caregiver Admin, CTB
Risk Level None Documented

Next Appointment No appointment s...
Previous Appointment -

Phone h:(267) 456-8574 ...
Indicators No Web Account

Guarantor Self

Patient Problem List | Patient Medications | My Short Lists | Short Lists | Search | Free Text Diagnosis | Risk Score 0.000 | Eligibility

Include Add to My Short Lists Reset Short List Collapse All View...

- 9 year visit at CCP
 - CCP Recommended 9 year vaccines - (Flu during season) (Z23)
- Reviewed Social Determinants of Health (SDOH) Questionnaire and provided resources as needed
- PSC17 (96127)
- HPV vaccine discussion and caregiver refusal
- Discussion of Development
- Diet: healthy - for children
- Exercise for Kids: kids exercise
- Discussed Recommended Labs
- BLOOD DRAW, CAPILLARY-- Cholesterol (36416)

Current Plans
Update Move Note Clear Draft Drug ABN

- Unspecified Diagnosis
 - HPV vaccine discussion and caregiver refusal: completed.

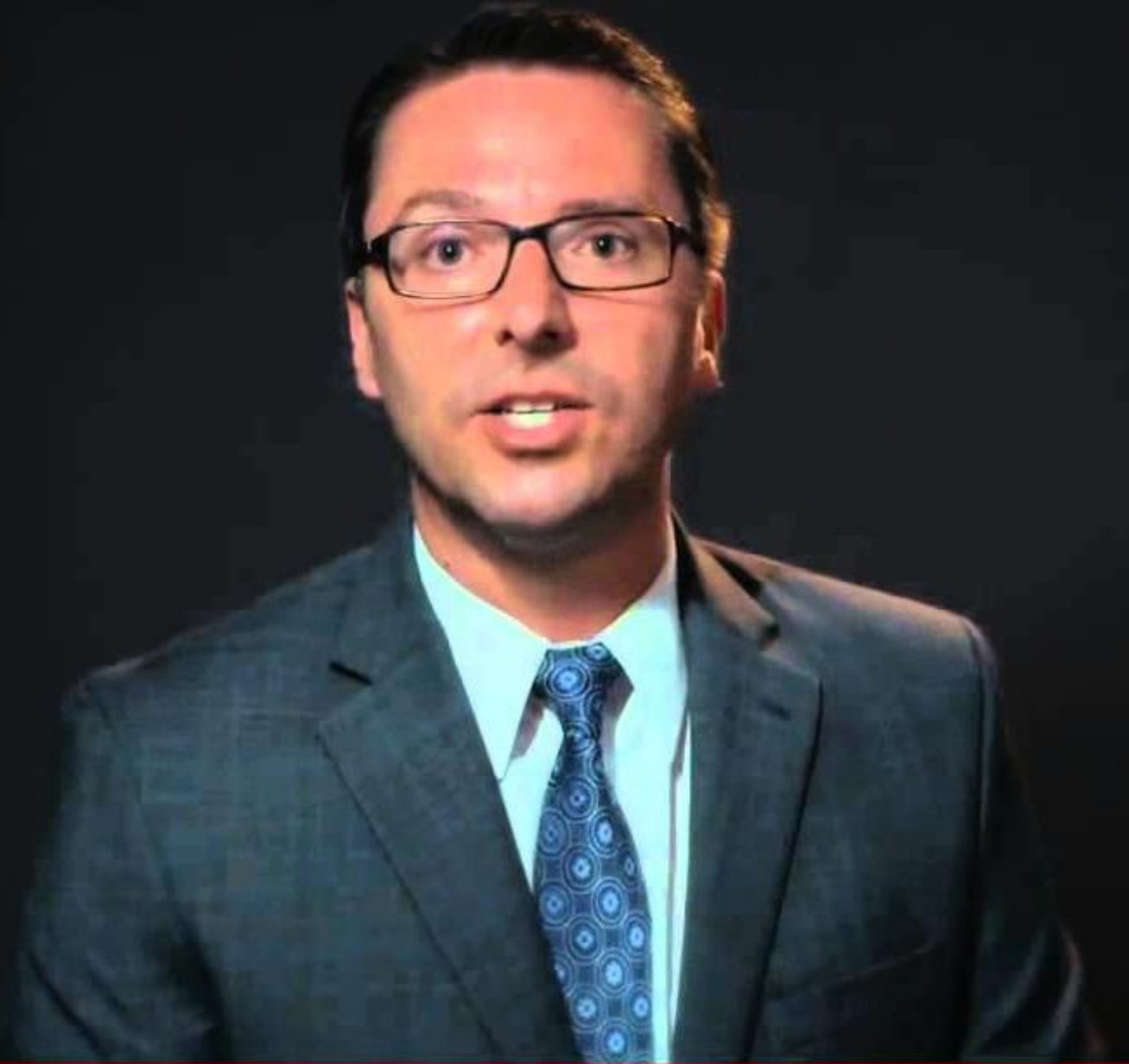
Future Plans
Include

BERGER, Eric D MD

INBOXES
Appointments 80
Open Encounters 1
Result Notifications
Messages
Web Messages
Refill Requests
Document Review
Received Charts
eRx Requests
ePHI Notifications 97

Billing Level... (SITE DEFAULT)

THIS
GUY?



THE MAN?



THE COACH

- Try to be knowledgeable
- Never dismissive/ Remain Curious/ Empathetic
- Be affable and optimistic about benefits
- Make the hard decisions when you must!



www.centercitypediatrics.com



THANK YOU!!



Vaccine Equity: Panel



Dr. Frank Franklin, PhD, JD, MPH
Deputy Health Commissioner
Philadelphia Department of Public Health

Tasia Fautleroy
Health Equity Program Manager
Division of Disease Control
Philadelphia Department of Public Health

Hassan Freeman
Director of Community Engagement
PhillyCounts
City of Philadelphia

THANK YOU



Contact Sabrina.Gattine@phila.gov with any questions.