

HPV Vaccination Best Practices: Provider Interventions 2024 HPV Learning Program

This session is being recorded



August 28, 2024





We come

Melissa Santiago

HPV Program Manager, Interventions & Implementation **American Cancer Society**





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HPV Vaccine Best Practices: Provider Interventions August 28, 2024 **CME Learner Information**

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Agenda

Welcome & Agenda Review

Melissa Santiago, MPA, MPH

Centers of Disease Control and Prevention Ruth Stefanos, MD, MPH

Stony Brook Lauren Ng, DO, FAAP

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5

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3

Rapid Fire Q&A Dr. Stefanos & Dr. Ng

Closing Remarks & Next Steps Melissa Santiago

8/30/2024

5

Today's Speakers



Ruth Stefanos, MD, MPH Centers for Disease Control and Prevention



Lauren Ng, DO, FAAP Renaissance School of Medicine at Stony Brook University



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National Center for Immunizations and Respiratory Diseases

CDC Recommendations for HPV Vaccination

Ruth Stefanos, MD, MPH Division of Viral Diseases National Center for Immunization and Respiratory Diseases

August 28, 2024



Outline

- Routine HPV vaccination recommendation and historical context
- How CDC makes vaccination recommendations
- Current plans

Current Recommendation

- HPV vaccination is routinely recommended at age 11 or 12 years
- Vaccination can be given starting at age 9 years
- Since 2006 (first recommendation), the wording of age at HPV vaccination initiation has not changed substantially

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



Adolescent Platform

1996	Adolescent Platform	"This report presents a new str adolescents and to integrate re services provided to adolescen 11-12 years of age by establishi
		Immunization of adolescents. MMWR Recor
2005	Tdap	"The preferred age for Tdap va
		Broder KR, Cortese MM, Iskander JK, et al. N
	MCV4	"Introducing a recommendatio strengthen the role of the prea among adolescents."
		Bilukha OO, Rosenstein N. MMWR Recomm
2006	HPV	"ACIP recommends routine vaco quadrivalent HPV vaccine. The v

Markowitz LE, Dunne EF, Saraiya M, et al. MMWR Recomm Rep. 2007;56(RR-2):1-24.

rategy to improve the delivery of vaccination services to ecommendations for vaccination with other preventive nts. This new strategy emphasizes vaccination of adolescents ning a routine visit to their health-care providers."

omm Rep. 1996;45(RR-13):1-16.

accination is 11–12 years"

MMWR Recomm Rep. 2006;55(RR-3):1-34.

on for MCV4 vaccination among young adolescents might adolescent visit and have a positive effect on vaccine coverage

n Rep. 2005;54(RR-7):1-21.

cination of females aged 11–12 years with 3 doses of vaccination series can be started as young as age 9 years."



Adolescent Platform

+



Human Papillomavirus (HPV)

A HPV Home

For Parents

For Healthcare Professionals

HPV Cancers are Preventable

Vaccine Schedule and Dosing

Answering Parents Questions

HPV Vaccine Safety and Effectiveness Data

Boosting Vaccination Rates

Educational Materials

Continuing Education

5 Ways to Boost Your HPV Vaccination Rates

<u>Print</u>

Implement these practical and proven strategies and increase your HPV vaccination rates.



Bundle your recommendation

Bundle your recommendation for all adolescent vaccines, including HPV vaccine, in the same way, on the same day. You can start the vaccine discussion with, "Now that your child is 11, they need three vaccines to help protect against meningitis, HPV cancers, and whooping cough. We'll give these shots during today's visit. Do you have any questions about these vaccines?"

Search

https://www.cdc.gov/hpv/hcp/boosting-vacc-rates.html



Current HPV Vaccination Recommendations

Routine vaccinati

Catch-up Vaccinatio

Shared clinical decision-makin

ion	Age 11–12 years ; can be started at age 9 years
on	Age 13–26 years , if not adequately vaccinated
ng	Some adults age 27–45 years , if not adequately vaccinated

https://www.cdc.gov/hpv/hcp/vaccination-considerations/index.html



Current HPV Vaccination Recommendations

Routine vaccinati

Catch-up Vaccinatio

Shared clinical decision-makin

Special situation:

History of sexual abuse or assault: Start at age 9 years

ion	Age 11–12 years ; can be started at age 9 years
on	Age 13–26 years , if not adequately vaccinated
ng	Some adults age 27–45 years , if not adequately vaccinated

https://www.cdc.gov/hpv/hcp/vaccination-considerations/index.html



Vacc	ine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19– 23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11– 12 yrs	13– 15 yrs	16 yrs
HP	V														See notes		

Range of recommended ages for all children

Range of Range of recommended recommended ages for catchages for certain highup vaccination risk groups

Notes and full schedule available at: https://www.cdc.gov/vaccines/hcp/imz-schedules/downloads/child/0-18yrs-child-combined-schedule.pdf

Recommended vaccination can begin in this age group











Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19– 23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11– 12 yrs	13– 15 yrs	16 yrs
HPV														See notes		

Range of recommended ages for all children

Range of Range of Recommended recommended recommended vaccination can ages for catchbegin in this age ages for up vaccination certain highgroup risk groups

Notes and full schedule available at: https://www.cdc.gov/vaccines/schedules/hcp/imz/child-adolescent.html













Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19– 23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11– 12 yrs	13– 15 yrs	16 yrs
HPV														See notes		

Range of recommended ages for all children

Range of recommended ages for catchup vaccination

Notes and full schedule available at: https://www.cdc.gov/vaccines/schedules/hcp/imz/child-adolescent.html



Recommended vaccination can begin in this age group













Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19– 23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11– 12 yrs	13– 15 yrs	16 yrs
HPV														See notes		

Range of recommended ages for all children

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Notes and full schedule available at: https://www.cdc.gov/vaccines/schedules/hcp/imz/child-adolescent.html

Recommended vaccination can begin in this age group





Recommended Immunizations for Children 7–18 Years Old



ALL children in age group should get the vaccine

SOME children in age group should get the vaccine

Recommended	7	8	9	10	11	12	13	14	15	16	17	18
Vaccines	Years											
HPV												

https://www.cdc.gov/vaccines/hcp/imz-schedules/downloads/etr/teen/parent-version-schedule-7-18yrs.pdf



ALL children in age group can get the vaccine

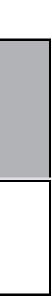


Parents/caregivers should talk to their health care provider to decide if this vaccine is right for their child





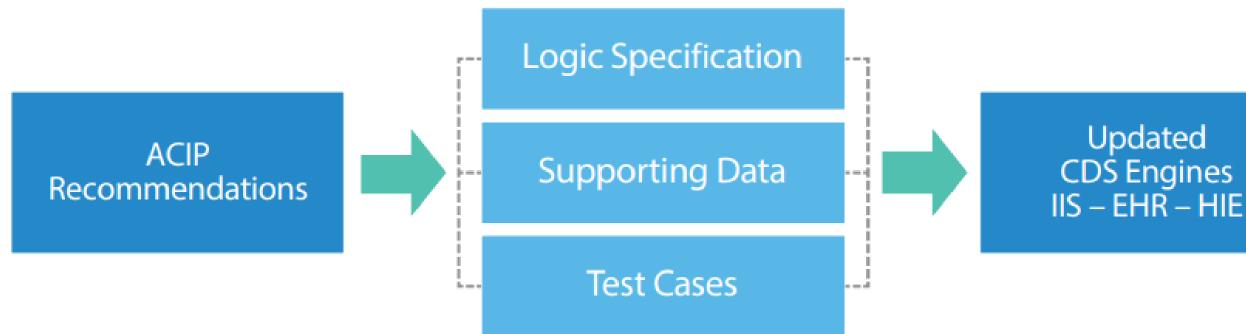






Clinical Decision Support for Immunization (CDSi)

The CDSi resources translate clinical recommendations into technical information

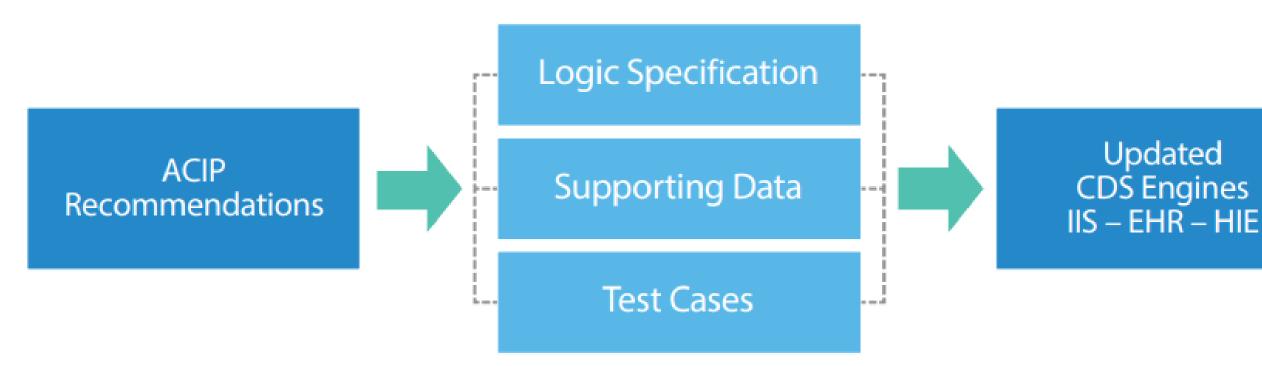


- Provides resources that help translate clinical recommendations into technical information
- Integration of recommendations into clinical decision support engines (e.g., electronic health records)

https://www.cdc.gov/vaccines/programs/iis/cdsi.html

Clinical Decision Support for Immunization (CDSi)

The CDSi resources translate clinical recommendations into technical information



- Logic for applying rules to CDS engines
 - Earliest prompt for HPV vaccination is age 11 years

https://www.cdc.gov/vaccines/programs/iis/cdsi.html

nes :-

Advisory Committee on Immunization Practices (ACIP)



https://www.cdc.gov/vaccines/acip/index.html



Advisory Committee on Immunization Practices (ACIP) ACIP Work Groups



Print

ACIP uses subgroups of the Committee, known as Work Groups, to review relevant published and unpublished data and develop recommendation options for presentation to the ACIP. The goal of ACIP Work Groups is to increase the effectiveness of ACIP.

ACIP Work Groups are responsible for collection, analysis, and preparation of information for presentation, discussion, deliberation, and vote by the ACIP in an open public forum. Work Groups review specific topics in detail and clarify issues in a way that helps ACIP voting members make informed and efficient decisions, with the best and most current information available.

7/1/2024)

- Chikungunya Vaccines
- Schedules
- <u>COVID-19 Vaccines</u>
- <u>Human Papillomavirus Vaccine</u>

The following Work Groups are currently active (click on the name of each Work Group for more information): (Updated

- Combined Child/Adolescent and Adult Immunization
- Influenza Vaccines
- Meningococcal Vaccines
- Pneumococcal Vaccines ٠
- Respiratory Syncytial Virus Vaccines Pediatric/Maternal .
- <u>Respiratory Syncytial Virus Vaccines Adult</u>

https://www.cdc.gov/vaccines/acip/workgroups.html





Advisory Committee on Immunization Practices (ACIP) ACIP Work Groups



At the last ACIP meeting in June it was announced that an HPV Vaccine Work Group is going to be restarted.

Print

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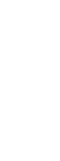
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https://www.cdc.gov/vaccines/acip/workgroups.html















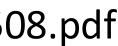


Topics to be considered by HPV Vaccines Work Group

Wording of the age for routine HPV vaccination

- Some stakeholders interested in starting vaccination at age 9 years
- Current ACIP recommendations are consistent with vaccination at age 9 years
- Modification of wording could allow more flexibility

https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2024-06-26-28/01-HPV-brooks-508.pdf



Wording of the Age for Routine HPV Vaccination

- Work group will review a variety of data including a review of evidence regarding programmatic aspects of vaccination at age 9–10 years.
- Studies reviewed included:
 - evaluating completion by age of initiation
 - evaluating interventions to increase vaccination at age 9–10 years
 - provider/caregiver interviews or surveys

Clarification on Some Issues Regarding Age at Vaccination

- evidence that efficacy is different with vaccination at age 9–10 years compared with age 11–12 years.
- same visit will diminish safety or effectiveness.

• While the antibody response is higher with younger age at vaccination, no

• There is no evidence to suggest that receiving all adolescent vaccines at the

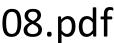


Topics to be considered by HPV Vaccines Work Group

- Number of doses in the recommended HPV vaccination series
 - Accumulating evidence on efficacy of HPV vaccination with fewer doses
 - In 2022, the World Health Organization recommended a two-dose schedule for persons aged 9 years or older and, as an off-label option, a single-dose schedule can be used for those aged 9–20 years

https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2024-06-26-28/01-HPV-brooks-508.pdf

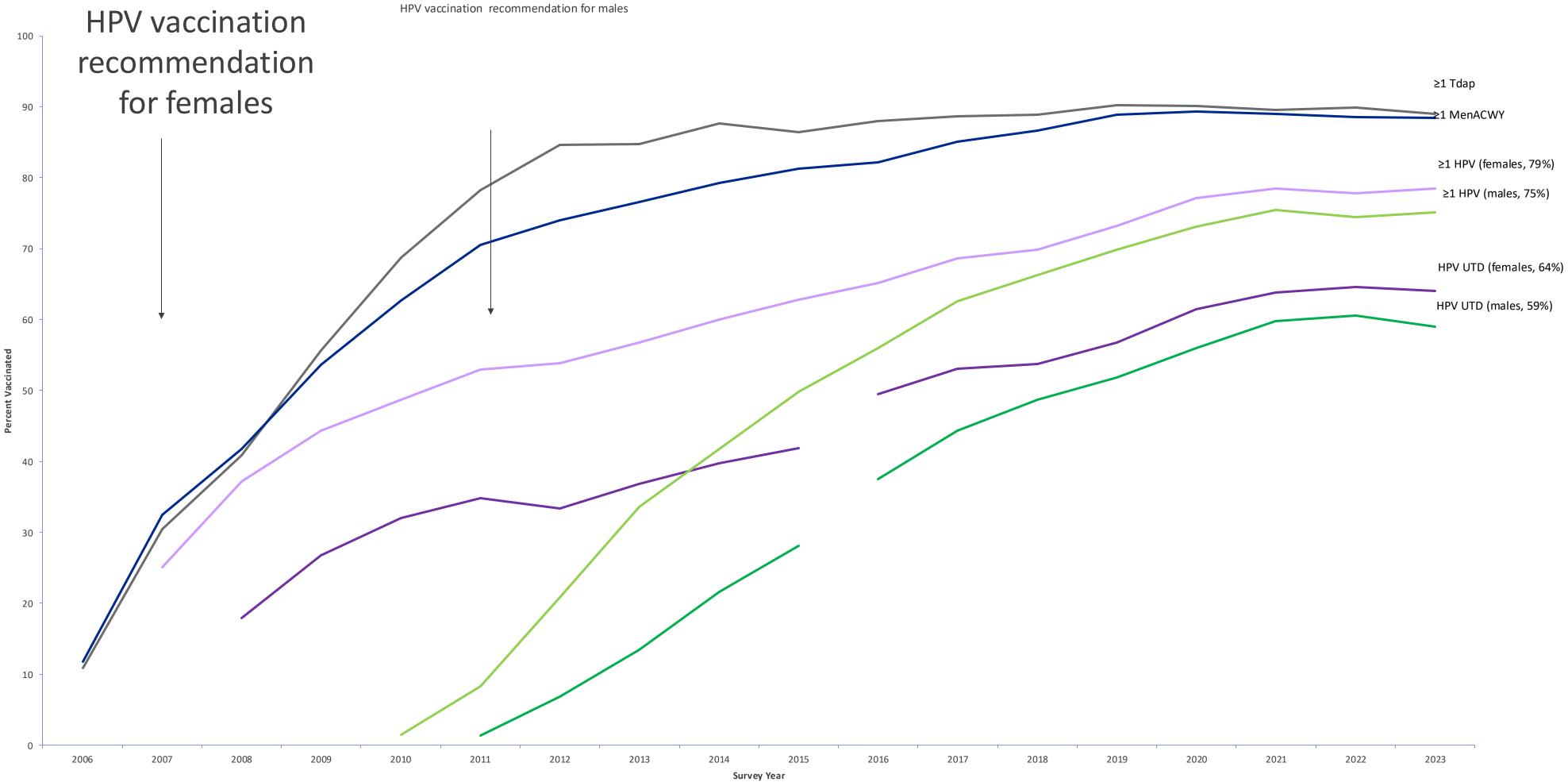




Conclusions

- ACIP workgroup will be evaluating wording of the routine age recommendation
- Vaccination at age 9 is consistent with current routine HPV vaccination wording

Estimated Vaccination Coverage Among Adolescents Aged 13–17 years — National Immunization Survey-Teen (NIS-Teen), United States, 2006–2023



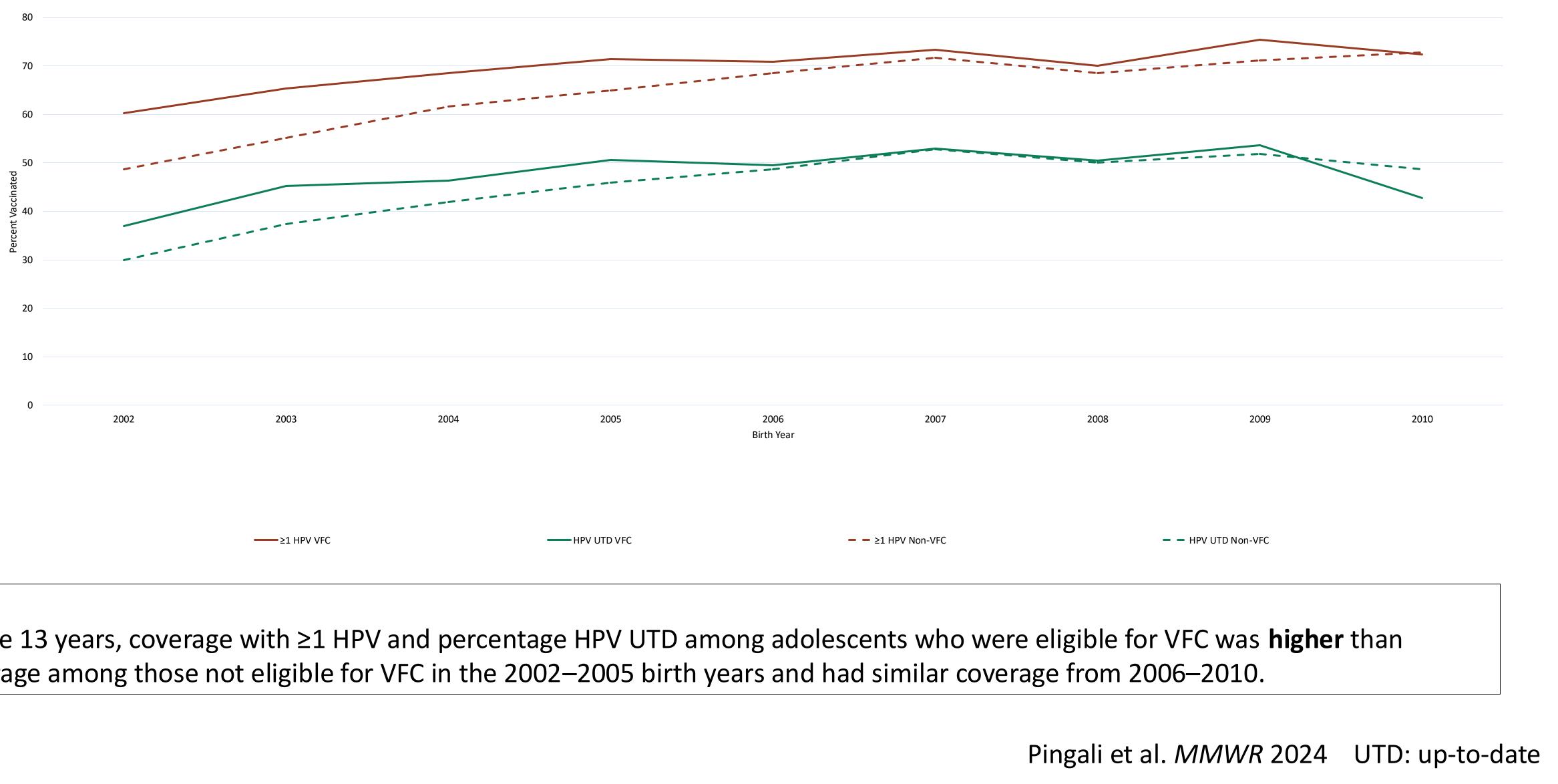
2016	2017	2018	2019	2020	2021	2022	2023
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Pingali et al. MMWR 2024 UTD: up-to-date





Receipt of HPV vaccine by age 13 years by birth year and by Vaccines for Children (VFC) Eligibility — National Immunization Survey-Teen (NIS-Teen), United States, 2015–2023



By age 13 years, coverage with ≥1 HPV and percentage HPV UTD among adolescents who were eligible for VFC was higher than coverage among those not eligible for VFC in the 2002–2005 birth years and had similar coverage from 2006–2010.

Acknowledgements

Sarah Brewer, PhD Carla DeSisto, PhD Lauri Markowitz, MD

> For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





HPV Vaccination Best Practices:

Provider Interventions

Lauren Ng, DO, FAAP Assistant Professor of Pediatrics Division of Primary Care Pediatrics Renaissance School of Medicine at Stony Brook University August 28th, 2024



Quality Improvement Partnership to Improve HPV Vaccine Rates: Start at age 9 Campaign

Lauren Ng, DO, Pediatric Primary Care, Center Moriches Office **Project Team**

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Barbara Messeder, American Cancer Society, Cancer Control Strategic Partnerships Manager

 Annalea Trask, Program Coordinator, Cancer Prevention In Action, Community Outreach and Engagement, Stony Brook Cancer Center

Sonoma Patel, MD, Stony Brook Pediatric Resident PGY-3

Jessica Fenton, MD, Preventive Medicine Resident PGY-3



Lauren Ng, DO 33





Project History

In 2021, Smithtown (SMT) and Center Moriches (CMO) offices participated in the **ACS National Cohort of HPV Vaccine Quality Improvement**

- Identifying patients due for HPV Vaccine #2 Call backs and use of 'Vaccine Only' appts
- In person Provider Education
- Staff Education- Workflow Change with including CDC Pre-teen Vaccine Handouts
- Patient Education- CDC Pre-teen Vaccine Handouts

In 2022, interventions were implemented to all offices and continuance of data from SMT and CMO offices reported to the ACS National Cohort of HPV Vaccine **Quality Improvement**

Continued provider and staff education

Major achievement- IT reports across all sites for HPV vaccine rates

Patients due for HPV#2 vaccine quarterly reports



Lauren Ng, DO 34









Lauren Ng, DO 35





Vaccines for Preteens and Teens: What **Parents Should Know**

All boys and girls need three vaccines at ages 11-12 to protect against serious diseases. Preteens and teens should also get a yearly flu vaccine, as well as any vaccines they missed when they were younger.

What vaccines does my child need?

Patient Education English and Spanish Versions

https://www.cdc.gov/vaccines/parents/do wnloads/pl-dis-preteens-parents.pdf

> When should my child be vaccinated?

Are these vaccines safe?

Can I get help paying for Most health insurance plans cover routine vaccinations. The Vaccines for Children (VEC) program also provides vaccines for children 18 years and younger who are uninsured, underinsured, Medicaid-eligible, these vaccines? American Indian, or Alaska Native. Learn more at www.cdc.gov/Features/VFCprogram.









Meningococcal vaccines protect against a type of bacteria that can cause serious illnesses. The two most common types of illnesses include infections of the lining of the brain and spinal cord (meningitis) and bloodstream. All preteens should get the meningococcal conjugate vaccine (MenACWY). Teens may also receive a serogroup B meningococcal vaccine (MenB), preferably at 16 through 18 years old.



lose 1: Ages 11-12 Dose 2: 6-12 months later

HPV vaccine protects both girls and boys from future infections that can lead to certain types of cancer. Children who get their first dose on or after their 15th birthday will need three doses.



Tdap vaccine protects against three serious diseases: tetanus, diphtheria, and pertussis (whooping cough).



Yearly Dose: Ages 6 months and older

Flu vaccine helps protect against seasonal flu. Even healthy preteens and teens can get very sick from flu and spread it to others. The best time to get an annual flu vaccine is before flu begins causing illness in your community, ideally before the end of October. Flu vaccination is beneficial as long as flu viruses are circulating, even in January or later.

at a physical exam required for school, sports, or camp. If your child missed any doses of recommended vaccines, ask your doctor or nurse about getting them now. These vaccines have been studied very carefully and are very safe. They can cause mild side effects, like soreness or redness in the part of the arm where the shot is given. Some preteens or teens might faint after

A good time to get these vaccines is during a yearly wellness check. Your child can also get these vaccines

getting a shot. Sitting or lying down when getting a shot, and then for about 15 minutes after the shot, can help prevent fainting. Serious side effects are rare. It is very important to tell the doctor or nurse if your child has any serious allergies, including allergies to yeast, latex, or chicken eggs, before they receive any vaccines.

Talk to your child's doctor or nurse about the vaccines your child needs or visit www.cdc.gov/vaccines/parents



Tast updated JU Y 2019









2023: Start HPV Vaccines at age 9 Campaign

Our goal is to increase HPV vaccine initiation rates among 9-13-year-olds by <u>3 percent</u> in one year.





AIM: Increasing HPV #1 vaccine rates Intervention 1: Recommending HPV vaccine at age 9 Education of Providers, Residents, RNs, LPNs and MAs **Intervention 2: HPV vaccine rack cards** QR code for Cancer Prevention in Action video for parents on rack cards **Intervention 3: EHR/Cerner Changes**

- 1. and above



Adding HPV vaccination orders to Well Child Check PowerPlans ages 9

2. Add CDC Pre-teen vaccination hand out to Patient Education in Cerner















Why age 9?

Know the Facts!

There are many benefits to initiating the HPV vaccine series at age 9. These include:

Offers more time for completion of the series by the age of 13

Decreases questions about sexual activity by parents and guardians

Increases vaccinations and therefore the number of cancers prevented

The HPV vaccine has been given for more than 15 years and provides long-lasting protection. The HPV vaccine is safe and effective, with no long-term side effects. In fact, 109 studies conducted among 2.5 million people in 6 countries have shown that there have been no serious side effects other than what is typical for all vaccines (i.e., allergic reactions, fainting).²

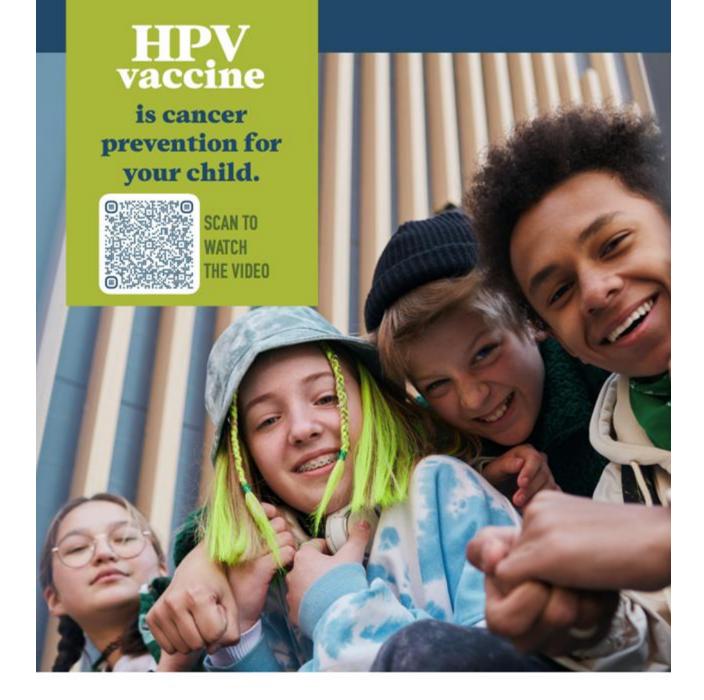
Results in a strong immune response to the HPV vaccine

Decreases requests for only vaccines that are "required" for school Increases the likelihood of vaccinating prior to first HPV exposure

Decreases the number of administered shots per visit

Has been shown by several systems to increase vaccination rates Has been shown to be highly acceptable to systems, providers, and parents

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Children and the vaccine that prevents cancer

You can protect your child from developing a range of cancers by stopping the virus that causes them.

what parents need to know.

SCAN WITH YOUR PHONE'S CAMERA TO WATCH THE VIDEO.



watch the video to learn more

CANCER PREVENTION IN ACTION



If you could protect your child now from developing cancer later in life, you would. And you can.

Every year in New York State nearly 2,800 men and women are diagnosed with cancer caused by HPV ... a cancer that could have been prevented with a childhood vaccine.

Speak to your child's provider TODAY about the HPV vaccine!

WHAT IS HPV? -

Human papillomavirus (HPV) is a common virus that infects 85% of people in their lifetime. Many of these cases will go unnoticed.

The virus can cause six types of cancer and each year in the U.S., over 35,000 men and women will develop HPV cancers because of it.

THE VIRUS THAT CAUSES

HPV VACCINE STOPS • CERVICAL CANCER • VAGINAL CANCER MOUTH & THROAT CANCER
 ANAL CANCER

SIX TYPES OF CANCER • VULVAR CANCER • PENILE CANCER

These HPV cancers could have been prevented with a simple 2-dose childhood vaccine.

The vaccine series is recommended for kids ages 11-12, and can be started at age 9.

GET THE FACTS so you can make the best decision for your child.

HPV vaccine is safe, effective protection for your child.

SCAN WITH YOUR PHONE'S CAMERA TO WATCH

THE VIDEO.



watch the video to learn more >

GET THE FACTS. REDUCE THE RISK. SPREAD THE WORD. visif: TakeActionAgainstCancer.com

Lauren Ng, DO 40

This project is supported with funds from the State of New York and Health Research Inc.



Electronic Medical Record Changes

Allergies: No Known Allergies Attend:NG MD , LAUREN ISOLATION(0): None

Pronouns: He / Him

Pre-Outpatient Ambulatory

CODE STATUS: No Results Four

PCP: (Please Update) Verified date: (Please Update)

Pediatric East Moriches

🕂 Add 🛛 📲 Document Medication by Hx 🗧 Reconciliation 🛪 🖉 🗞 Check Interactions 🛛 🧱 External Rx History 👻 🖉 Rx Plans (1)

Orders Medication List Document In Plan

😴 🕼 Diagnoses 🚫 🕂 Add to Phase 🗸 🔥 Check Alerts 🛛 Start: View \$ \$ ∇ Component 🖻 Medical Pediatric Well Care PowerPlan(amb), 9 year WCC (Planned Pendin Pediatric Well Care PowerPlan(amb) Preventive Medicine 5-11 years Est - 99 $\overline{\mathbf{A}}$ Newborn Visit (Planned Pending) Z Preventive Medicine 5-11 years New -2 week/Newborn Weight Check Visit (Plann PSC-17 1 month Visit (Planned Pending) \checkmark Brief Emotional/Behavioral Assessment 7 2 month Common Orders (Planned Pending influenza virus vaccine, inactivated 4 month Common Orders (Planned Pendinc 7 Influenza Quad. Vaccine, Preserv. Free: 6 month Common Orders (Planned Pending $\overline{\mathbf{v}}$ human papillomavirus vaccine **O** 9 month Common Orders (Planned Pendinc HPV Vac, Types 6,11,16,18,31,33,45,52,5 7 12 month Common Orders (Planned Pendir Pref5 multivitamin with fluoride (Multiple Vit 15 month Common Orders (Planned Pendir $\mathbf{\nabla}$ \mathbb{Z} Follow Up Visit 18 month Common Orders (Planned Pendir 2 Follow Up Visit 24 month Common Orders (Planned Pendir 2 Follow Up Visit 30 month Common Orders (Planned Pendir 2 Follow Up Visit - 3 year WCC (Planned Pending) 7 Lead POC 83655 Charge 4 year vaccines (Planned Pending) Hqb POC 85018 Charge 5 year WCC (Planned Pending) 6-8 year WCC (Planned Pending) 9 year WCC (Planned Pending) 10 year old WCC (Planned Pending) 11 year old WCC (Planned Pending) 12 year old WCC (Planned Pending) 13-15 year old WCC (Planned Pending) 16 year old WCC (Planned Pending) 17 year old WCC (Planned Pending) \mathbf{V} LUNCOVER IN CAL 4.0 > € Diagnoses & Problems 🔺 Details **Related Results** Formulary Details Dx Table Orders For Nurse Review Save as My Favorite

d	Weight: N/A	No XDocs	Patient Portal: No
: SNY EMPIRE R	łA▼		conciliation Status Meds History 🕒 Admission

t: Now Duration: None	
Status Dose	Details
ng)	
99393	T;N, 25 Sig., Separately Id'able by Same MD
- 99383	25 Sig., Separately Id'able by Same MD
nt 96127 Charge	59 Distinct Procedural Service
	0.5 mL, IntraMuscular, X1
e: 0.5 mL dose 90	
	0.5 mL, IntraMuscular, X1, T;N
,58 90651 Charge	
/itamins with Flu	= 1 tab, Oral, Once daily, # 90 tab, 3 Refill(s)
	T;N, 1 year, WCC
	T;N, 4 weeks, Flu #2
	T;N, 6 months, 2nd Gardasil dose
	T;N, Schedule as Telehealth Visit

😿 Initiate Now



Cancel



Baseline data for all six sites from 2022 compared to end of year data from 2023 showed an increase from 36.8% to 39.8% for HPV vaccine first dose rates from 9 to 13-year-old children

HPV vaccine completion rates from 9 to 13-year-olds were stable from 18.6% in 2022 to 18.5% in 2023

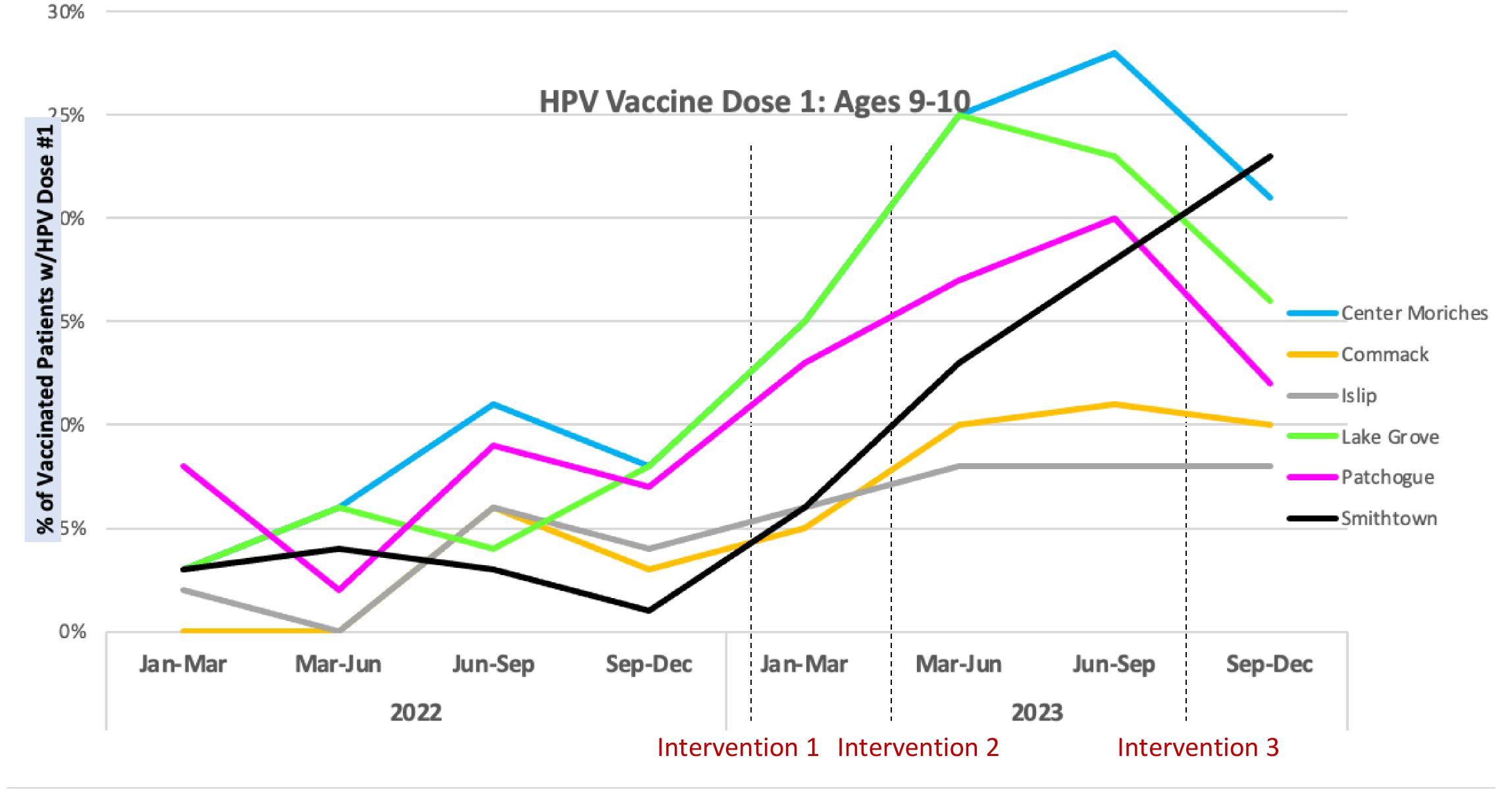
HPV Dose 1 rates between 9 to 10-year-olds increased at all sites



















		Combined Genders	2022						Combined Genders	2023			
		Total	HPV >=1	HPV >=1	HPV 2	HPV 2			Total	HPV >=1	HPV >=1	HPV 2	HPV
		Number of	Dose	Dose Rate	Dose	Doses			Number of	Dose	Dose Rate	Dose	Dose
		Active				Rate			Active				Rate
		Medical							Medical				
	Age 09-10	233	5	2.15%	0	0.00%		Age 09-10	329	21	6.38%	1	0.3
	Age 11-12	280	100	35.71%	34	12.14%		Age 11-12	327	123	37.61%	42	12.
	Age 13	117	78	66.67%	57	48.72%		Age 13	163	89	54.60%	61	37.
Commack	Total	630	183	29.05%	91	14.44%	Commack	Total	819	233	28.45%	104	12.
	Age 09-10	793	27	3.40%	0	0.00%		Age 09-10	423	45	10.64%	11	2.6
	Age 11-12	860	344	40.00%	105	12.21%		Age 11-12	366	156	42.62%	75	20.4
	Age 13	436	264	60.55%	210	48.17%		Age 13	199	118	59.30%	84	42.3
East Setauket	Total	2089	<mark>635</mark>	30.40%	315	15.08%	East Setauket	Total	988	319	32.29%	170	17.2
	Age 09-10	260	5	1.92%	0	0.00%		Age 09-10	302	11	3.64%	2	0.6
	Age 11-12	318	140	44.03%	63	19.81%		Age 11-12	361	149	41.27%	48	13.3
	Age 13	155	97	62.58%	76	49.03%		Age 13	202	130	64.36%	104	51.4
Islip	Total	733	242	33.02%	139	18.96%	Islip	Total	865	290	33.53%	154	17.8
	Age 09-10	714	31	4.34%	0	0.00%		Age 09-10	728	101	13.87%	13	1.7
	Age 11-12	830	291	35.06%	83	10.00%		Age 11-12	749	304	40.59%	97	12.9
	Age 13	364	225	61.81%	175	48.08%		Age 13	347	203	58.50%	154	44.3
Moriches	Total	1908	547	28.67%	258	13.52%	Moriches	Total	1824	608	33.33%	264	14.4
	Age 09-10	5 <mark>8</mark> 8	20	3.40%	0	0.00%		Age 09-10	684	65	9.50%	3	0.4
	Age 11-12	622	282	45.34%	92	14.79%		Age 11-12	663	308	46.46%	109	16.4
	Age 13	290	194	66.90%	154	53.10%		Age 13	300	218	72.67%	154	51.3
Patchogue	Total	1500	496	33.07%	246	16.40%	Patchogue	Total	1647	591	35.88%	266	16.:
	Age 09-10	673	7	1.04%	0	0.00%		Age 09-10	635	67	10.55%	5	0.7
	Age 11-12	797	254	31.87%	92	11.54%		Age 11-12	744	264	35.48%	75	10.0
	Age 13	401	230	57.36%	168	41.90%		Age 13	370	193	52.16%	154	41.6
Smithtown	Total	1871	491	26.24%	260	13.90%	Smithtown	Total	1749	524	29.96%	234	13.3
Total		7042	2594	36.84%	1309	18.59%	Total		6451	2565	39.76%	1192	18.4







Goals for 2024

Encouraging HPV vaccine initiation at age 9

 Provider and staff education · Updating providers on quarterly HPV vaccination rates at division meetings

Patient education

- HPV rack cards
- · Updating exam room posters

 Identifying race, ethnicity and insurance in our results



If there were a vaccine against cancer, wouldn't you get it for your kids?

HPV vaccine is cancer prevention. Talk to the doctor about vaccinating your 11–12 year old sons and daughters against HPV.

www.cdc.gov/vaccines/teens







Take Home Points

- Advocate for policy change •
- **Provider and staff education is key** •
- **Examine workflow closely to implement change** •
- **Progress updates** •
- Implementing change is a slow process







Please feel free to contact me:

Lauren.ng@stonybrookmedicine.edu



Thank you







References

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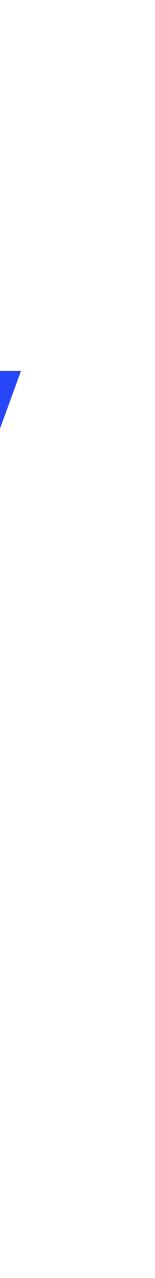
Stony Brook Children's





Rapid & Q&A





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Provider Directed Interventions





- **Provider Assessment and Feedback**
- **Provider Incentives**



Provider Reminders/Recall



Standing Orders

*Interventions are best when done in combination



RECOMMENDATIONS MATTER

The best predictor of vaccination uptake for both hesitant and non-hesitant parents was how the provider started the conversation.



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Resources





CDC Immunization Schedule for <u>Parents:</u>

Older children and teens need vaccines too!

2024 Recommended Immunizations for Children 7–18 Years Old

RECOMMENDED	7 YEARS	8 YEARS	9 YEARS	10 YEARS	11 YEARS	12 YEARS	13 YEARS	14 YEARS	15 YEARS	16 YEARS	17 YEARS	18 YEARS
нру												
Tdap ¹												
Meningococcal ACWY												
Meningococcal B												
Influenza/Flu	Every year. for some	Two doses children					Every	/ year				
COVID-19					At least 1	dose of the cu	rrent COVID-1	9 vaccine				
RSV								lf pregnant duri	ng RSV season			
Мрох												
Dengue			ONLY IF U	iving in a place	where dengue	is common ANE) has laborator	y test confirmin	ng past dengue	infection		

1 One dose of Tdap is recommended during each pregnancy

KEY

ALL children in age group should get the vaccine

ALL children in age group can get the vaccine

SOME children in age group should get the vaccine





Parents/caregivers should talk to their health care provider to decide if this vaccine is right for their child

- 2. Your child is traveling outside the United States.



U.S. CENTERS FOR DISEASE CONTROL AND PREVENTION

FOR MORE INFORMATION Call toll-free: 1-800-CDC-INFO (1-800-232-4636) Or visit: www.cdc.gov/vaccines/parents

Want to learn more? Scan this QR code to find out which vaccines your child might need. Or visit www.cdc.gov/vaccines/tool/teen.html



Talk to your child's health care provider for more guidance if:

1. Your child has any medical condition that puts them at higher risk for infection or is pregnant.

3. Your child misses any vaccine recommended for their age or for babies and young children.



American Academy of Pediatrics DEDICATED TO THE HEALTH OF ALL CHILDREN®



<u>CDC Immunization Schedule for Providers</u>

Table 1 Recommended Child and Adolescent Immunization Schedule for Ages 18 Years or Younger, United States, 2024

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

Vaccine and other immunizing agents	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19-23	
Respiratory syncytial virus (RSV-mAb [Nirsevimab])	1 dose depending on maternal RSV vaccination status, See Notes				1 dose (8 through 19 months), See Notes						
Hepatitis B (HepB)	1 st dose <>				<> 3 rd dose>						
Rotavirus (RV): RV1 (2-dose series), RV5 (3-dose series)			1 st dose	2 nd dose	See Notes						
Diphtheria, tetanus, acellular pertussis (DTaP <7 yrs)			1ª dose	2 nd dose	3 rd dose			∢ 4 th d	oseÞ		
Haemophilus influenzae type b (Hib)			1 st dose	2 nd dose	See Notes		3 rd or 4 See I	th dose, Notes			
Pneumococcal conjugate (PCV15, PCV20)			1 st dose	2 nd dose	3 rd dose		∢ 4 th (doseÞ			
Inactivated poliovirus (IPV <18 yrs)			1 st dose	2 nd dose	•		3 rd dose		>		
COVID-19 (1vCOV-mRNA, 1vCOV-aPS)								1 or n	nore doses	of upda	
Influenza (IIV4)	Annual vaccination 1							cination 1 o	r 2 dose		
Influenza (LAIV4)							_				
Measles, mumps, rubella (MMR)	See Notes 1" dose										
Varicella (VAR)							∢ 1" o	doseÞ			
Hepatitis A (HepA)					See M	lotes		2-dose serie	is, See Note	s	
Tetanus, diphtheria, acellular pertussis (Tdap ≥7 yrs)											
Human papillomavirus (HPV)											
Meningococcal (MenACWY-CRM ≥2 mos, MenACWY-TT ≥2years)								See Notes			
Meningococcal B (MenB-4C, MenB-FHbp)											
Respiratory syncytial virus vaccine (RSV [Abrysvo])											
Dengue (DEN4CYD; 9-16 yrs)											
Мрох											



Range of recommended ages for all children

Range of recommended ages for catch-up vaccination



Recommended vaccination can begin in this age group

3 mos	2–3 yrs	4–6 yrs	7–10 yrs	11–12 yrs	13–15 yrs	16 yrs	17–18 yrs			
		5 th dose								
		4 th dose					See Notes			
dated (2023-2024	Formula) va	ccine (See N	Notes)			Hotes			
dated (2023–2024 Formula) vaccine (See Notes) ses Annual vaccination 1 dose only										
		ual vaccinati	ion or		ual vaccinati					
	1	or 2 doses				on ruose c	a 11 y			
		2 nd dose								
		2 nd dose								
				1 dose						
			0.0	See Notes						
				1ª dose		2 nd dose				
					See No	otes				
	Seasonal administration during pregnancy, See Notes									
				Seropos	itive in ende areas (See N	mic				

Recommended vaccination based on shared clinical decision-making

No recommendation/ not applicable

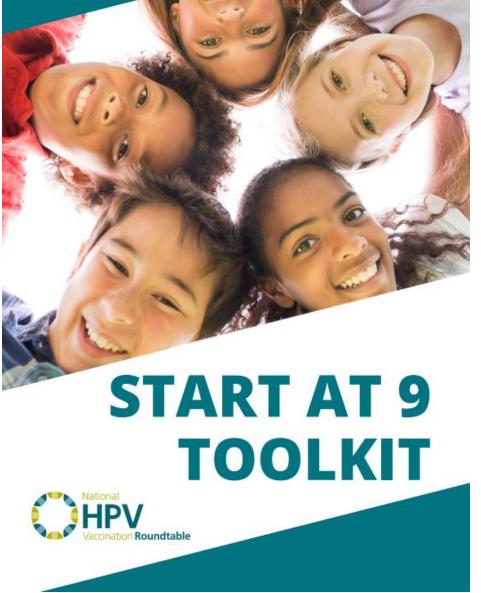


HPVRT Print on Demand Age 9 Toolkit:

HPVRT Print on Demand Age 9 Toolkit:

- 8.5×11 Flier PDF Web Co-Brandable
- <u>8.5x11 Flier</u> PDF Print with Crop Marks **Co-Brandable**
- 18x24 Poster PDF Web Co-Brandable
- <u>18x24 Poster PDF Print with Crop Marks</u> **Co-Brandable**

Why Age 9? Fact Sheet





Every year in the United States, it is estimated that nearly 36,500 individuals are diagnosed with cancer caused by an HPV infection.¹ Human papillomavirus (HPV) cannot be treated, but there is a vaccine that can prevent transmission and protect against six cancers if initiated prior to exposure. HPV vaccination is a ritical prevention tool, safeguarding children and adolescents against more than 90% of HPV cancers when given at recommended ages.¹ Because cancer prevention decreases as the age of vaccination i important to start early!

Why Age 9?

Starting the HPV vaccination series at age 9 is recommended by the American Cancer Society, the American Academy of Pediatrics, and the National HPV Vaccination Roundtable. Previous guidance from the Centers for Disease Control (CDC) and Advisory Committee on Immunization Practices (ACIP) recommends routine HPV vaccination at age 11 or 12 years but notes that the HPV vaccine can be given starting at age 9.

ended Vaccination Schedule Guidelin









The Announcement Approach for Increasing HPV Vaccination Poster

The Announcement Approach for Increasing HPV Vaccination

Take these steps to more effectively recommend HPV vaccination. They will save you time and improve patient satisfaction.

1 If a parent is here

ANNOUNCE

Start with a presumptive announcement that assumes parents are ready to vaccinate. This is an effective way to recommend adolescent vaccines, including HPV vaccine.¹

KEY ELEMENTS OF AN ANNOUNCEMENT:

Note child's age to cue that this is part of routine care

Say you will vaccinate today

Announce children this age get a vaccine that prevents six HPV cancers.

ANNOUNCEMENT EXAMPLE "Marcus is now 9, so today he'll get a vaccine that prevents six HPV cancers."

- CONNECT & COUNSEL

2

Connect with parents by asking for their main concern about HPV vaccine. Counsel parents by using a research-tested message to address their concern.² Then clearly recommend getting HPV vaccine today.

TRY AGAIN

3

Say you'll bring up HPV vaccine at the next visit. Then make a note in the child's chart. Almost 70% of parents who initially decline later agree to HPV vaccine or plan to soon.

1. Brewer, et al., 2017, Pediatrics. 2. Shah, et al., 2019, Pediatrics. 3. Kornides, et al., 2018, Academic Pediatrics hpvIQ.org







New Resources



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HPV Action Guide for Health Plans Just Launched





Cancer Prevention Through HPV Vaccination:

An Action Guide for Health Plans

Your health plan has the power to reduce the burden of human papillomavirus (HPV) cancers by motivating improvements in HPV vaccination rates. This action guide features steps your health plan can take to increase HPV vaccination and work toward eliminating HPV cancers for future generations.

The Problem

HPV is a common virus that can cause six types of cancer. **About 13 million people, including teens, become Infected with HPV each year.** When HPV infections persist, people are at risk for cancer.¹ While HPV Infection has no treatment, the HPV vaccine is extremely effective at preventing HPV infections and HPV cancers. Unfortunately, rates of HPV vaccination lag behind other adolescent vaccinations.

The Solution

The HPV vaccine is cancer prevention. The HPV vaccine can prevent more than 90% of HPV cancers when given to boys and girls between the recommended ages of 9–12, and it is most effective at achieving a better immune response when the first dose is given at age 9.^a

Health plans are a critical part of the solution. More than nine out of 10 Americans have health insurance, giving health plans significant potential to impact HPV vaccination and cancer prevention. Health plans have the unique ability to reach multiple parts of the health care system, including providers and parents. They can also reach the parents of adolescents without a medical home.

Why prioritize HPV vaccination?

In addition to benefiting member care and well-being, health plans that focus on HPV vaccination can:

Decrease costs

In the coming decades, vaccinating adolescents now could save health plans billions of dollars associated with the following medical care:

- Cancer treatment
- Abnormal Pap tests
- Office visits
- Treatment of genital warts
- Procedures for cervical cancer prevention

Total economic burden for the most prominent HPV-related cancers in 2020: Total annual medical cost of cervical cancer care in 2020: \$2.3 billion

\$2.9 billion

Improve Healthcare Effectiveness Data and Information Set (HEDIS) <u>Immunizations</u> <u>for Adolescents</u>! (IMA) performance

- HPV vaccine series completion rates drive health plan HEDIS IMA performance. Improvements to HPV vaccine uptake may increase your health plan's performance when compared to peers.
- Depending on the state and product, health plans may be eligible for incentives that help them Improve their HEDIS IMA measure.





If every health plan prioritizes HPV vaccination, every health plan will benefit.

"My member today might be your member tomorrow." - Health plan representative of the National HPV Learning Collaborative



ACS HPV Vaccination Impact Report 2023-2024



2023-2024 HPV Vaccination **Impact Report**









2023-2024 Executive Summary



PARTNERSHIPS & PATIENT REACH

- QUALITY IMPROVEMENT COHORT: ACS engaged 32 health systems, including 158 clinics, in the 2023 national HPV quality improvement (QI) cohort. During the 12-month period, these systems reported a reach of over 70,000 children ages 9-13.
- BEST PRACTICE EDUCATIONAL SERIES: Over 300 organizations have joined our new 2024 best practices webinar series to date, reporting a reach of over 700,000 patients ages 9-13.
- HEALTH CARE PROFESSIONALS: Through special projects in Texas and the Mountain West region and national programming, ACS has educated >4,500 health care professionals.
- PAYERS: 2023 was the second year of the national HPV health plan learning collaborative, engaging 14 partners with 19 service/product lines in 11 states. Plans reported a reach of 127,554 13-year-olds.
- RURAL HEALTH SYSTEMS: ACS launched a new rural HPV learning collaborative in March 2024 for rural health organizations, focused on quality improvement. To date, over 200 organizations in 42 states have joined the series, reporting a reach of >180,000 active 9- to 13-year-old patients.

HPV VACCINATION IMPACT

- ACS is driving progress to advance HPV vaccination guideline implementation, leading to more on-time vaccinations among 9- to 12-year-olds. Health systems in the national QI cohort achieved a 5.8% increase in age 9 initiation, and a 4.9% increase in completion by age 13. Health plans in the learning collaborative achieved a 3% increase in completion by age 13 and a 3% increase in the IMA measure.
- In 2023, ACS HPV vaccination work was presented at the International Papillomavirus Conference, MetaECHO's global conference, and the American Public Health Association annual meeting.

ADVANCING CERVICAL CANCER ELIMINATION

- 90% of cervical cancer deaths are in low- and middle-income countries. Many countries are rolling out new HPV vaccination programs for girls ages 9-14 per World Health Organization goals. ACS partners on global efforts with Cervical Cancer Action for Elimination (CCAE) and in-country efforts in Colombia, India and Kenya. Read more in the 2023 annual report.
- ACS launched 25 resources and the dynamic digital platform, PreventGlobalHPVCancers.org, to connect leaders in ministries of health, medical societies, and civil society organizations with evidencebased tools and resources developed in low- and middle-income countries.





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Upcoming Opportunities



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2024 Public National Meeting

October 7th - 11th, 2024 | 12:00pm - 1:30pm ET

Join the ACS HPVRT as we host our 2024 National Meeting virtually from Monday, October 7th to Friday, October 11th. We will meet daily 12:00pm ET – 1:30pm ET. Throughout the week we will be celebrating the accomplishments of the ACS HPVRT over the last 10 years. We are excited to Celebrate 10 years of the ACS HPVRT & Innovate for a strong future in cancer prevention! All are welcome to join.

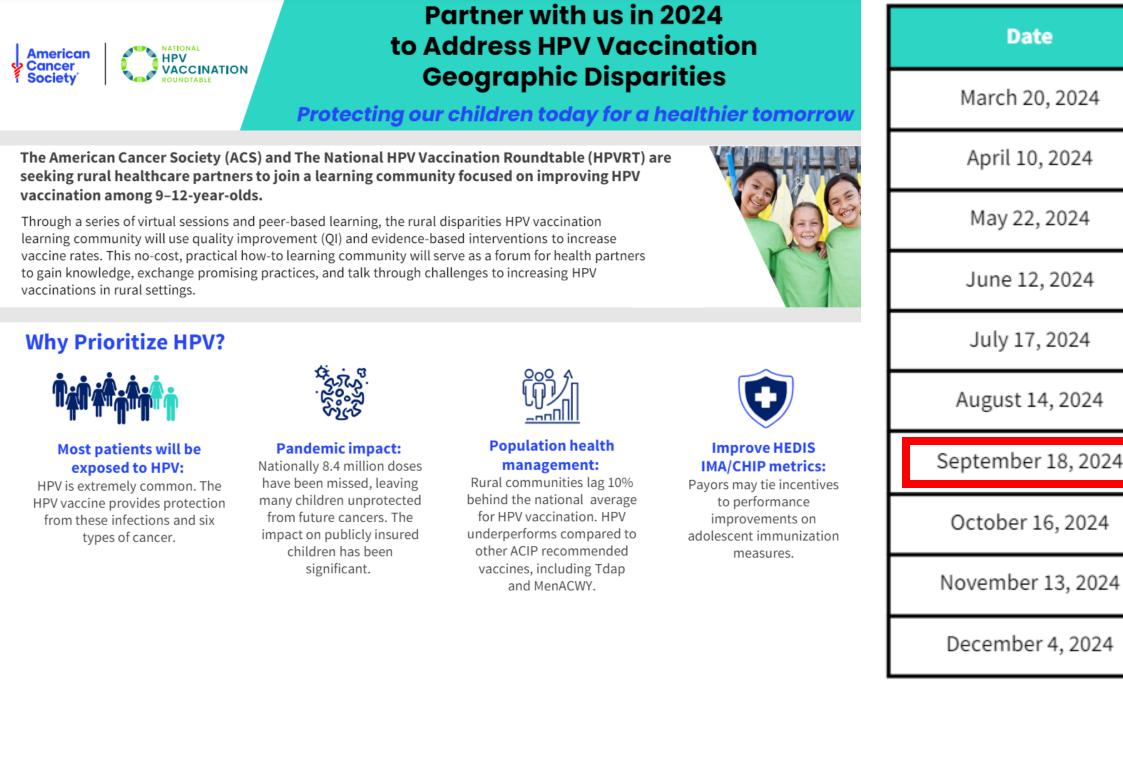


Register Today



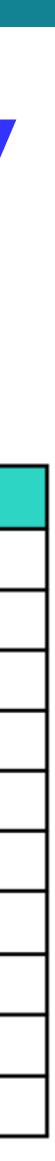
Rural HPV Vaccination Learning Community Next Session: September 18th 2PM ET

Learning Session Details





	Торіс	Recording	Slide Deck
024	Setting the Stage: Networking & Orientation	<u>Recording</u>	<u>Slides</u>
24	A Deep Dive into HPV Vaccination Data	<u>Recording</u>	<u>Slides</u>
24	HPV Vaccination Starting at Age 9	Recording	Slides
24	ABC's of QI: AIM Statement & Building a Team	Recording	Slides
24	ABC's of QI: Process Mapping & Gap Analysis	Recording	Slides
024	Finding the Best Fit: Evidence Based Interventions & HPV Vaccinations	Recording	Slides
, 2024	ABC's of QI: PDSA Cycles	Recording	Slides
2024	Highlighting Best Practices: Reducing Structural Barriers	Recording	Slides
2024	Highlighting HPV Vaccination Best Practices	Recording	Slides
2024	Celebrating & Sustaining Success	Recording	Slides



HPV Vaccination Best Practice Sessions



The American Cancer Society in partnership with the National HPV Vaccination Roundtable and the Indiana Immunization Coalition are launching a 2024 quarterly program for health systems.



Each session will delve into key interventions, best practices, highlight health systems and provide strategies to increase HPV vaccination. *CME, CNE and Pharmacy continuing education will be offered for each webinar.

2024 Series Dates

Session 1 MAR 7 2PM EST

The Announcement Approach Training

The updated Announcement Approach training teaches health care professionals how to make and support strong HPV vaccine recommendations and address parent hesitancy.

Session 2

2PM EST

Patient & Parent Interventions

Session 2 will focus on interventions targeted for patients, and parents. An emphasis on back-to-school initiatives , resources and tools for increasing HPV vaccination.

This program is supported by the Centers for Disease Control and Prevention of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award funded by CDC/HHS. The contents are those o the author(s) and do not necessarily represent the official views of, nor an endorsement, by CDC/HHS, or the U.S. Government.







Session 3 AUG 28 2PM EST

<u>Register Now!</u>



Provider Interventions

Session 3 will focus on interventions targeted for providers & their care team.



System & Policy Interventions

Session 4 will focus on system level and policy changes health systems can implement.



April 15 -17, 2025

Hyatt Regency | Indianapolis, Indiana

Call for abstracts will open June 15, 2024 and must be submitted by September 15, 2024 at 8 PM Eastern. Posters and Oral Presentations will be accepted.

HPV Conference





There are 20 million 10–14-year-olds in the United States.





What Can Health Systems Do?

Communicate Proactively to Families

- Age 9 birthday patient reminders
- Patient portal messaging/reminders
- Social media/web page banners
- Send letters/emails inviting patients in for annual well-child visits and immunizations
- Call patients to schedule well-child and immunization visits
- Hang adolescent immunization posters in patient rooms

Activate Reminder/Recall Efforts

- Pull overdue and newly due patient lists
- Set up age 9 CDS alerts
- Work with IT to structure reports by age 9, 10, 11, 12
- Automate/facilitate second dose scheduling

• Review current adolescent rates by site and provider for ages 9-12

Miss No Opportunity to Vaccinate

- Educate ALL care team members on the need for catch up
- Use standing orders to increase immunization capacity
- Recommend all <u>ACIP-</u> <u>recommended</u> vaccines at every visit



Call to Action

HPV vaccinations have not recovered

• Clarify guidelines for providers

Evaluate and enhance your current interventions





We value your feedback!!!

o Takes 1 minute

Scan the QR Code or

Click on the link in the chat



2024 HPV Vaccination Best Practice Program





Next Steps

- Please complete evaluation survey in the chat or in the follow-up email
- Post webinar: You will receive an email communication with recording and resources

For claiming continuing education:

• CME, CNE & Pharmacy credits: Text "94553" to

317-671-8998. You have 60 minutes prior, during, and 120 minutes after the end of the activity to text <u>in your attendance</u>.



Partner Acknowledgement



Funder Acknowledgement

HPV programming is supported by the Centers for Disease Control and Prevention of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award totaling \$890,000 with 100% funded by CDC/HHS. The contents of this presentation are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by CDC/HHS, or the U.S. Government.

In addition, the American Cancer Society provides in-kind support and has been awarded additional support from Merck Sharp & Dohme Corp. and Lyda Hill Philanthropies.





Thank You

American Cancer Society®

Vision: End cancer as we know it, for everyone.

Mission: Improve the lives of people with cancer and their families through advocacy, research, and patient support, to ensure everyone has an opportunity to prevent, detect, treat, and survive cancer.

HPV Vaccine Best Practices: Provider Interventions August 28, 2024 **CME Learner Information**

Accreditation Statement



In support of improving patient care, this activity has been planned and implemented by Indiana University School of Medicine and Indiana Immunization Coalition. Indiana University School of Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

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The activity evaluation will be sent via email. Within 30-60 days following the activity, learners will receive a separate email with instructions on how to obtain proof of participation in this IUSM activity. For questions and concerns, please contact IU School of Medicine, Division of Continuing Education in Healthcare Professions, 317-274-0104, or cehp@iu.edu

ΠΠ SCHOOL OF MEDICINE INDIANA UNIVERSITY

There are no relevant financial relationship(s) with ineligible companies for anyone who was in control of the content of this activity.

EVALUATION

We value your feedback. Please complete the evaluation:

https://iu.co1.qualtrics.com/jfe/form/SV_d0jfzZIMnQimaiO



