There’s an App for That: Increasing HPV Vaccination Rates

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Presenter Disclosure Information

- The presenters have been asked to disclose any significant relationships with commercial entities that are either providing financial support for this program or whose products or services are mentioned during our presentations.
  - Dr. Humiston is a consultant on a clinical immunization project at Sanofi Pasteur, which does not make HPV vaccine.
  - Dr. Rand has no relationships to disclose.

- The presenters do not plan on discussing unlabeled/investigational uses of a commercial product.
Presenter Disclosure Information

- I, Susan Lett, have been asked to disclose any significant relationships with commercial entities that are either providing financial support for this program or whose products or services are mentioned during our presentations.
  - I have no relationships to disclose.

- I may/will discuss the use of vaccines in a manner not approved by the U.S. Food and Drug Administration.
  - But in accordance with ACIP recommendations.
Dr. Moira Szilagyi
Candidate for AAP President

Please be sure to vote in Spring 2020
Objectives

As a result of participating in this activity, learners should be able to:

• State the current Massachusetts HPV vaccination rates;
• Describe the same way, same day approach to introducing the HPV vaccine (an effective recommendation);
• Locate, describe and utilize several HPV vaccination-related-apps;
• Identify the current recommendations regarding HPV vaccination, including the age of initiating the series.
Massachusetts’ HPV Vaccination Rates


And

CDC. TeenVax View.
Adolescent Vaccination Coverage with Tdap, MenACWY, and HPV, Massachusetts, NIS, 13-17 years, 2008 – 2018

Numbers in parentheses indicate percentage point change from the previous year

*HPV Up to date (UTD): 2 doses if the first dose given before the 15th birthday and doses were separated by at least 5 months, otherwise, 3 doses

NIS Data, CDC

MDPH 2020
Adolescent Vaccination Coverage with HPV, NIS, 13-17 Years of Age, MA vs US, 2017 vs 2018

<table>
<thead>
<tr>
<th></th>
<th>MA</th>
<th></th>
<th>US</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Females</td>
<td>Males</td>
<td>Females</td>
<td>Males</td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>2018</td>
<td>2017</td>
<td>2018</td>
</tr>
<tr>
<td>1+ HPV</td>
<td>85%</td>
<td>83%</td>
<td>79%</td>
<td>88%</td>
</tr>
<tr>
<td>HPV UTD*</td>
<td>67%</td>
<td>67%</td>
<td>64%</td>
<td>71%</td>
</tr>
</tbody>
</table>

HPV-UTD – 2 doses if 1st dose given before 15th birthday and doses were separated by at least five months, otherwise, 3 doses

◊ Statistically significant improvement from the previous year

NIS Data, CDC

MDPH 2020
Percentage* of parents who reported receiving a provider recommendation for HPV vaccine, NIS-Teen 2018

* For this question, parents who were missing a response, refused to respond, or responded, “don’t know” (n=1,448) were not included in the estimates.


MDPH 2020
An Intervention That Makes a Difference

Easy-to-implement,
Low cost,
Sustainable
Top Reasons for Not Starting HPV Vaccine Series, From Parents of Unvaccinated Boys & Girls, 2016

- Safety concern/side effects
- Not needed
- Not sexually active
- Lack of knowledge
- Not recommended

HPV vaccination coverage, males 13-17 years by parental report of provider recommendation

Vaccination initiation rates depend on a high quality recommendation

- If **none** or presented as option: 20-30%
  - “Have you thought about what shots you’d like to get today?”
  - May unintentionally imply vaccine is not important or few people do it
- If **low-quality**: 50%
- If **high-quality**: 70-90%
  - Default; same way, same day
  - “We have some shots to do today”
  - Implies shot is important and most people get it

3 components of the ‘announcements’

*Today we have 3 vaccines for you: Tdap, HPV, and meningitis vaccines. What questions do you have for me?*

1. **Bundle** -- Announce that 3 vaccines are due today
2. **Today** -- Let the family know this should be done today
3. **HPV in the middle** – Put HPV vaccine in the middle. It should *not* be at the end of the list where it seems extra/optional
Putting High Quality Recommendations into Practice: **Same Way, Same Day**

“Your child needs 3 vaccines today- Tdap, HPV and meningococcal”

If starting before age 11, you can say:

“Today, your child needs the HPV vaccine to protect him against cancers and other diseases caused by HPV.”
The Opener by the Nurse/MA

- Encourage convenient same-day vaccination
  “Today, Pat should have 3 vaccines. They’re designed to protect him from the infections that cause meningitis, HPV cancers, and pertussis. Do you have any questions for me?”

- If a parent hesitates, the MA/nurse should say
  “Our practice is so dedicated to cancer prevention that I’m sure the doctor will want to talk with you about your concerns.”
HPV Vaccine: Same Way Same Day Mobile App

• A brief 15-minute, interactive, role-play simulation

• Learn how to:
  – Avoid common conversation pitfalls
  – Improve communication skills during HPV vaccine conversations

• **Complimentary** App available from the [Apple iTunes Store](https://apps.apple.com) or [Google Play Store](https://play.google.com).
Save Time And Increase HPV Vaccination Rates

Practice effective communication techniques in our 15-minute conversation simulation

DOWNLOAD OUR FREE APP, HPV VACCINE: SAME WAY, SAME DAY:
FROM THE APPLE APP OR GOOGLE PLAYSTORES

American Academy of Pediatrics
Academic Pediatric Association
Kognito
Topics Covered by

*HPV Vaccine: Same Way Same Day* Mobile App

- Understanding the importance of HPV vaccination
- Introducing the HPV vaccination to families
- Answering parental concerns effectively
- Addressing vaccine hesitancy
- Using motivational interviewing techniques
More Great Vaccination Apps
The Centers for Disease Control & Prevention Vaccine Schedules

https://www.cdc.gov/vaccines/schedules/hcp/schedule-app.html
The Centers for Disease Control & Prevention Vaccine Schedules (cont.)

CDC Vaccine Schedules

Advisory Committee on Immunization Practices (ACIP) Recommended Immunization Schedules for Persons Ages Birth through 18 years and Adults Ages 19 years or older, 2019

CDC Catch-up Schedule
(7 yrs through 18 yrs)

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Minimum Interval Between Doses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meningococcal</td>
<td>N/A</td>
</tr>
<tr>
<td>Tdap</td>
<td>7 years</td>
</tr>
<tr>
<td>HPV</td>
<td>9 years</td>
</tr>
<tr>
<td>Hepatitis A</td>
<td>N/A</td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>N/A</td>
</tr>
<tr>
<td>IPV</td>
<td>N/A</td>
</tr>
<tr>
<td>MMR</td>
<td>N/A</td>
</tr>
<tr>
<td>Varicella</td>
<td>N/A</td>
</tr>
</tbody>
</table>
The Centers for Disease Control & Prevention Vaccine Schedules (cont.)
What are their recommendations?

• **ACIP’s recommendation**: “ACIP recommends that routine HPV vaccination be initiated at age 11 or 12 years. The vaccination series can be started beginning at age 9 years.”

• **AAP recommendation**, introduced in the 2018-2021 *Red Book*: “The American Academy of Pediatrics and the Advisory Committee on Immunization Practices (ACIP) of the Centers for Disease Control and Prevention recommend routine HPV vaccination for females and males. The AAP recommends starting the series between 9 and 12 years, at an age that the provider deems optimal for acceptance and completion of the vaccination series.”
Why the difference? Increase uptake

Benefits of the AAP policy

• Offers providers **more flexibility** in introducing HPV vaccine
• May be preferable for parents/adolescents who do not want to receive **3 or 4 (in flu season) concomitant vaccines** at age 11-12
• Offers opportunity to **complete the series before other vaccines** in the adolescent platform are due (If a vaccine is delayed at the 11- or 12-year visit, it almost always is the HPV vaccine)
• Some providers have reported that initiating the vaccine earlier makes it **easier to disentangle** the HPV recommendation from the “sex talk” they have with patients at age 11 or 12
• **No known downside** to earlier initiation
  (The immune response is robust at younger ages, and there is no evidence of significant waning protection after antibody levels plateau approximately 18 to 24 months after series completion.)
The Vaccine Handbook for Clinicians
(The Purple Book)
# Human Papillomavirus

## TABLE 16.2 — Making Strong HPV Recommendations

<table>
<thead>
<tr>
<th>Parental Hesitancy</th>
<th>Strong Provider Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>My daughter does not need a vaccine against a sexually transmitted disease.</td>
<td>This vaccine will protect your daughter from getting cancer.</td>
</tr>
<tr>
<td>The vaccine is important for girls, not boys.</td>
<td>Nearly 40% of the 31,000 human papillomavirus-associated cancers that occur in the United States each year are in males. Most of these are anal and oropharyngeal cancers.</td>
</tr>
<tr>
<td>My child is too young to get this vaccine.</td>
<td>The vaccine is more immunogenic at younger ages, and I want your child to be protected long before there is any exposure.</td>
</tr>
<tr>
<td>Being vaccinated will open the door to sexual activity.</td>
<td>Getting the vaccine does not change adolescent sexual behaviors.</td>
</tr>
<tr>
<td>My child won't be exposed.</td>
<td>There are 14 million new infections every year in the United States. Even if your child waits until marriage, he or she could be exposed if their partner carries the virus.</td>
</tr>
<tr>
<td>I've heard the vaccine is not safe.</td>
<td>Over 90 million doses have been given in the United States since 2006, with no serious safety concerns being raised.</td>
</tr>
<tr>
<td>Would you give the vaccine to your own children?</td>
<td>I did (or I will, when they reach 11 years of age).</td>
</tr>
</tbody>
</table>

The Vaccine Handbook (cont.)

Sponsored by PIDS through an unrestricted educational grant from Sanofi Pasteur US
Vaccines on the Go From VEC at CHOP (cont.)

- Boys and men can benefit from the HPV vaccine.
- Use of the HPV vaccine has been found to decrease the spread of HPV in the community.
- The HPV vaccine is safe.
Vaccines on the Go From VEC at CHOP (cont.)

**VACCINE**

**DISEASE**

**LEVEL OF CONTAGIOUSNESS**

10 susceptible people

8 of 10 people will be exposed to HPV within 5 years of becoming sexually active

Within the first 5 years of becoming sexually active, 8 of 10 susceptible people will be exposed to HPV. In those people there is a...
Vaccines on the Go From VEC at CHOP (cont.)
Vaccines on the Go From VEC at CHOP (cont.)

The VEC has a vaccine safety booklet, *Vaccine Safety and Your Child*, which addresses in detail many of the issues in this section. Material in this booklet was excerpted from the book, *Vaccines and Your Child*, written by Paul A. Offit and Charlotte A. Moser and published by Columbia University Press (2011).

Download the Booklet PDF
Red Book & KidsDoc From AAP

For healthcare professionals

For parents
Shots From AAFP & STFM
Human Papillomavirus (3 Dose)

Administration

- Route: 0.5 mL IM
- HPV vaccines are not live vaccines and can be administered either simultaneously or at any time before or after an inactivated or live vaccine.
- All HPV vaccines should be kept refrigerated at temperatures 2°C/35°F – 8°C/46°F and not frozen.
- All HPV vaccines should be administered as soon as possible after being removed from refrigeration.
- 4vHPV and 9vHPV should be protected from light.
For More Apps, Visit the Immunization Action Coalition Website

www.immunize.org
Apps

Immunization apps for healthcare providers and their patients

ACOG App
American College of Obstetricians and Gynecologists (ACOG)
Download: iTunes | Google

CDC Health Information for International Travel - The Yellow Book
Centers for Disease Control and Prevention (CDC)
Download: iTunes | Google

CDC Mobile App
Centers for Disease Control and Prevention (CDC)
Download: iTunes | Google

CDC Vaccine Schedules
Centers for Disease Control and Prevention
Download: iTunes | Google

Healthy Children
American Academy of Pediatrics (AAP)
Download: iTunes

Medscape
WebMD
Download: iTunes | Google
Wrap Up

• **MA has good HPV vaccination rates**, with room for improvement

• **HPV Vaccine: Same Way Same Day** can help increase HPV vaccination rates

• **Many other useful apps** exist from CDC, TVH, CHOP, AAP, AAFP

• Learn more about vaccination apps at [www.immunize.org/resources/apps.asp](http://www.immunize.org/resources/apps.asp)