

HPV Vaccination Update: Local Efforts to Prevent HPV Cancers

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Disclosures

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Topics today

- **HPV virus and cancer risks**
- **HPV vaccination goals and progress**
- **Role of Dental Providers**
- **Approaches for clinicians to support HPV vaccination**
- **The NH Dental HPV project**

Why HPV and Dental Providers

- **Dental providers are concerned about oral health and examine oral cavity for abnormalities**
- **HPV related Oropharyngeal cancers are increasing rapidly and there is a role for HPV vaccine to prevent OP cancers**
- **Healthy children 9-18 years of age may have more visits to the dentists office than the doctor's office**
- **Family education and recommendation from a trusted professional is important**

What is the morbidity from HPV?

Each year:

- 79 million Americans are infected with HPV
 - The vaccine is expected to prevent up to 93% of cancer cases caused by HPV
- 31,200 **HPV-related cancers** could be prevented yearly:
 - **Cervical Cancer**
 - **Oropharyngeal Cancer**
 - Incidence rate is increasing; 90% occurs in men
 - oropharyngeal cancer now equals cervical cancer in NH and nationally by 2020
 - Also causes **genital warts, cancer of anus, penis, vagina and vulva**
- HPV causes as many deaths as measles did in the pre-vaccine era

HPV Vaccination Guidelines



On Time Initiation: 11-12 years old

- Can be normalized with other vaccines due at 11-12
- Before exposure
- Higher immune response at younger age
 - Only need two doses for protection
 - Second dose should be received before age 13 and up through age 15

Healthy People 2020 Goal

Target of 80% of Adolescents ages 13-15 being fully immunized for HPV

HPV Vaccination Rates in NH & VT

(2016 National Immunization Survey,
13-17 Year-Old Adolescents)

2016	U.S. 1+ Dose	NH 1+ Dose	VT 1+ Dose	U.S. UTD	NH UTD	VT UTD
Males	56.0%	69.3%	69.5%	37.5%	46.3%	53.1%
Females	65.1%	70.6%	71.2%	49.5%	58.4%	58.4%
Combined	60.4%	69.9%	70.3%	43.4%	51.2%	55.7%

2017	U.S. 1+ Dose	NH 1+ Dose	VT 1+ Dose	U.S. UTD	NH UTD	VT UTD
Combined	65.5%	74.2%	78.7%	48.6%	59.9%	64.5%

Rates of Tdap Vaccine are 93-95% in both states

**Why are HPV immunization rates
less than other teen vaccines?**

Headlines in the news

May, 2018

Americans less confident in vaccine system, survey finds-
provider relationship key to decision to vaccinate, experts say

October, 2018

Weaponized health communication: Twitter bots and Russian
trolls amplify the vaccine debate

Parents' Reasons for Not Getting HPV Vaccine

- **Not necessary** (factor in 20.2% unvaccinated girls, 20.2% boys)
- **Not knowing enough** (factor in 12.7% unvaccinated girls, 12.8% boys)
- **Safety concerns/side effects** (factor in 11.5% unvaccinated girls, 7.6% boys)
- **No provider recommendation** (factor in 13.3% unvaccinated girls, 17.2% boys)

Myths and ~~Facts~~ about HPV

Patients know all about this vaccine and will ask if they want it

the HPV vaccine can cause death
The HPV vaccine is unsafe, not tested or proven

the HPV vaccine is a live virus
The HPV vaccine has harmful ingredients in it

You can only get HPV if you have sex with a lot of partners

The HPV vaccine has harmful ingredients in it

HPV vaccination won't stop cancer

It's ok to wait to get the HPV vaccine

HPV vaccination causes premature ovarian failure and other fertility issues

the HPV vaccine hurts more than other shots

Getting this vaccine when you are young makes you more likely to have sex when you are young

If I wait to get the HPV vaccine it will last longer

Only women and girls can get HPV

Key Messages starting at Age 10

Necessary?

- Almost everyone will have HPV at some point
- HPV can cause 6 cancers in both men and women, only screening for cervical cancer
- Vaccine can prevent up to 93% of cancer cases caused by HPV

Why start vaccine at ages 11-12?

- Stronger immune response for ages 13 or younger
- Only two doses
- Before exposure

Safe?

- Safety has been tracked for 10+ years
- Vaccine is safe
- Most common side effect: redness/soreness at injection site

NH HPV Oral Health Project*

Brought together key stakeholders from the NH dental community to develop practice tools

Adapted materials from Massachusetts

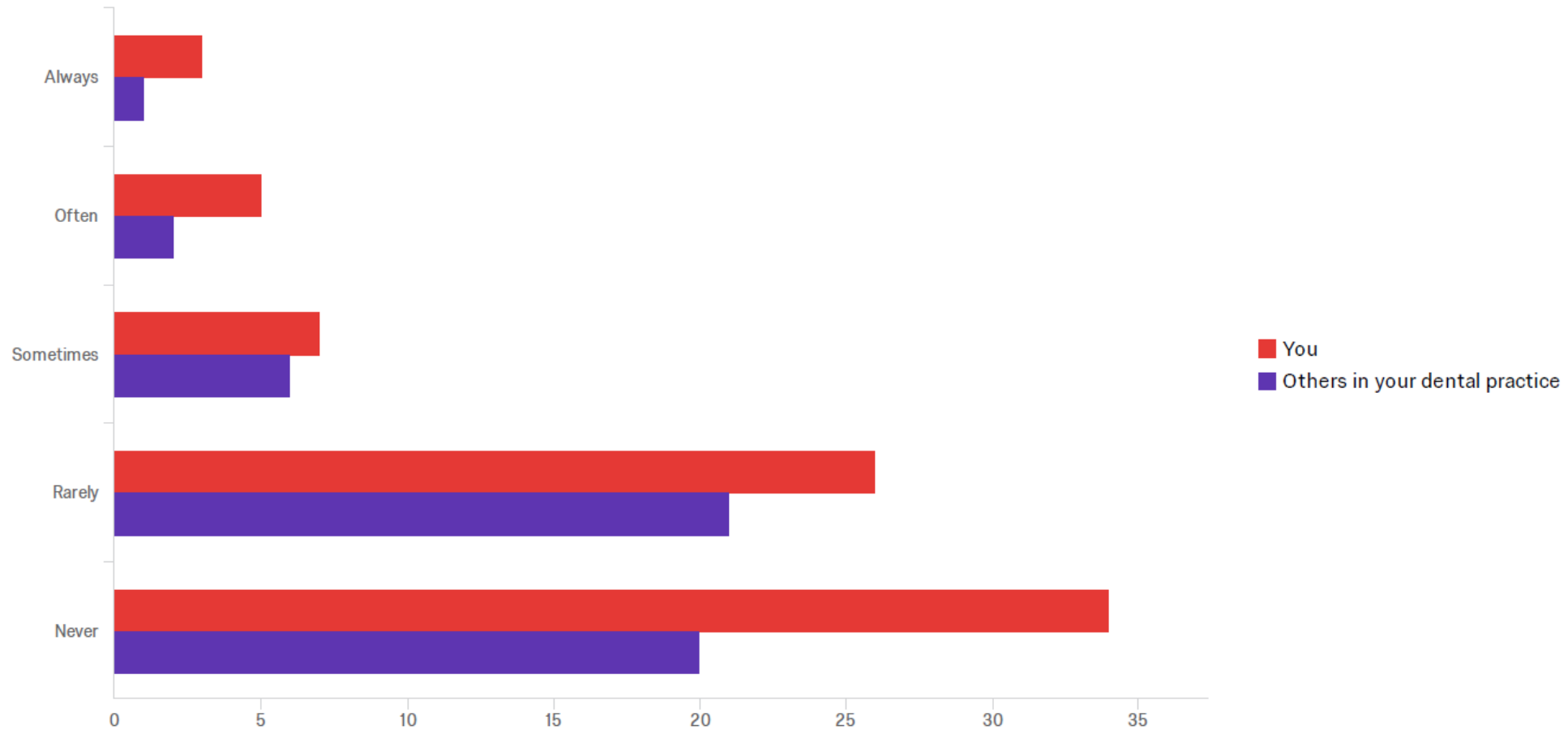
Piloted in 4 dental practices of “dental champions”. Revised tool kit

Practice tool kits are being disseminated in NH with baseline survey of current status

86 dental practices have received tool kits thus far

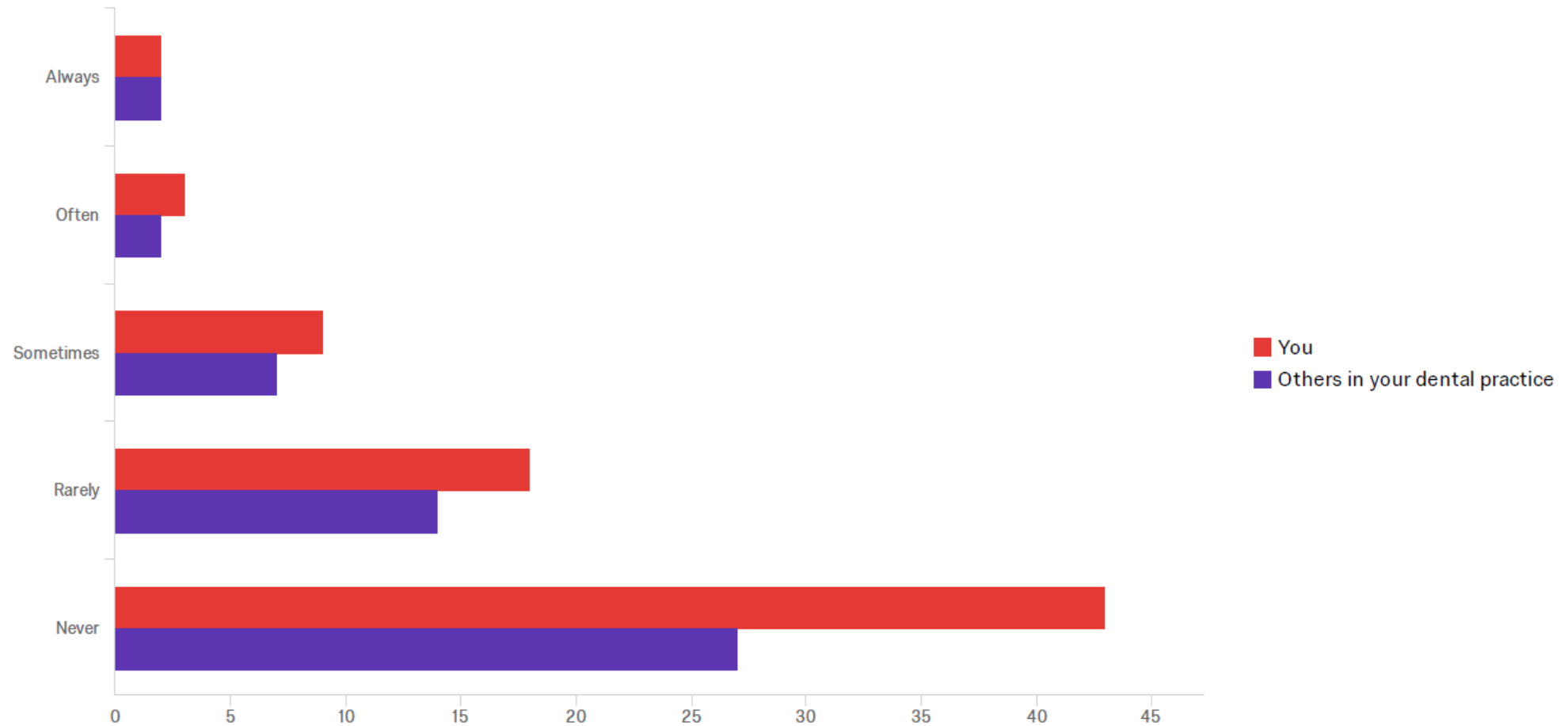
* Supported by NH Comprehensive Cancer Coalition

Q3 - In your dental practice, how often do you and your colleagues ask about history of HPV vaccination for 9-15 year-old patients?

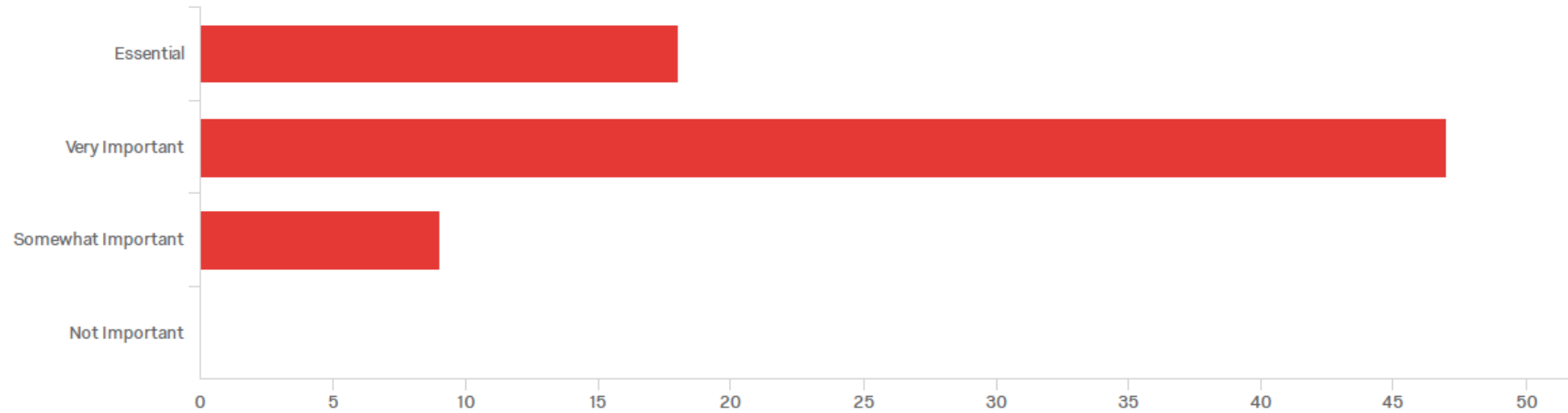


Q4 - In your dental practice, how often do you and your colleagues recommend HPV

vaccination for 9-15 year-old patients?




Q5 - How important do you think the HPV vaccine is for 9-15 year-old patients?



#	Field	Choice Count
1	Essential	24.32% 18
2	Very Important	63.51% 47
3	Somewhat Important	12.16% 9
4	Not Important	0.00% 0


HPV Vaccine Dental Toolkit

- Poster
- Suggested Health History Form Question: Have you/Has your child received the HPV Vaccine?
- Tips for Talking to Parents
- Your Website and Social Media Channels
- Brochures
- Prescription pads for parents to take your recommendation to the doctor



**CANCER PREVENTION AT THE
DENTAL OFFICE**

HPV AND CANCER




CHECKLIST TO HELP PREVENT CANCER

CHECKPOINTS:

- ✓ Get the HPV vaccine.
- ✓ See your doctor each year.
- ✓ See your doctor for mouth and throat cancer screenings.
- ✓ Perform a mouth and throat self-exam each month.
- ✓ Do not smoke.
- ✓ Limit alcohol.
- ✓ Women: Talk with your doctor about Pap and HPV testing.

THE HPV VACCINE IS RECOMMENDED FOR BOTH BOYS AND GIRLS AND IS BEST GIVEN AT AGES 11-12. TALK TO YOUR DOCTOR ABOUT GETTING THE VACCINE.

TEAM MAHARISHI  **MAHARISHI UNIVERSITY OF HEALTH SCIENCES**

FOR MORE INFORMATION ABOUT CANCER PREVENTION, VISIT WWW.HNCCANPLAN.ORG, OR CONTACT US AT INFO@HNCCANPLAN.ORG

MAHARISHI COMPREHENSIVE CANCER COLLABORATION
Together Eliminating Cancer!

Preventing cancer is better than treating it.



HPV infections can cause **six types** of cancer, but doctors only routinely screen for cervical cancer. The other five types may not be detected **until** they cause health problems.



HPV is a common virus that infects teens and adults.



80%

of people will get an HPV infection in their lifetime.



HPV vaccination works.

↓ 71%

Infections with HPV types that cause most HPV cancers and genital warts have **dropped 71 percent among teen girls.**



HPV vaccination prevents cancer.

31,200



cases of cancer could be prevented with HPV vaccination each year.

Same as the average attendance for a baseball game.



CDC
Public
Messages

HPV Vaccine is
cancer prevention

Thank you!

More information available at our conference table



PARENTAL SAFETY CONCERNS

Sources of information

- VAERS (Vaccine Adverse Effects Reporting System) national data set of adverse event is open to *anyone who wants to submit*
 - Out of 110 million doses given- 2,600 serious events submitted. NO COMPARISON GROUP
- CDC monitors vaccines and reported electronic health data in 7 large health systems
- National Vaccine Injury Program and HPV
 - Compensation paid to 128 out of 289 filed as of Sept 2018.
 - For $\frac{3}{4}$ of those Compensated, HHS determined from review of evidence, not vaccine caused: legal settlement
- Anaphylactoid reaction occurs and is very rare and the only vaccine cause of death after HHS review. Other causes were auto accident, suicide, homicide.
- Other rare illnesses occur in population are blamed on vaccine. Causality not shown
 - Epilepsy, Guillian Barre', Ovarian Failure