



## **Bundle 3 Adolescent Vaccines at the Same Visit Starting at Age 11**

Same Day. Same Way



Presenter:

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Tennessee Immunization Program

## Learning Objectives

1. Explain effectively to parents the importance of receiving the HPV vaccine on time at age 11 – 12 rather than delaying it
2. Explain the rationale and importance of bundling adolescent vaccines to increase vaccination coverage
3. Achieve explicit consensus among all providers to recommend Tdap, HPV, and Meningococcal vaccines together at the same visit starting at age 11

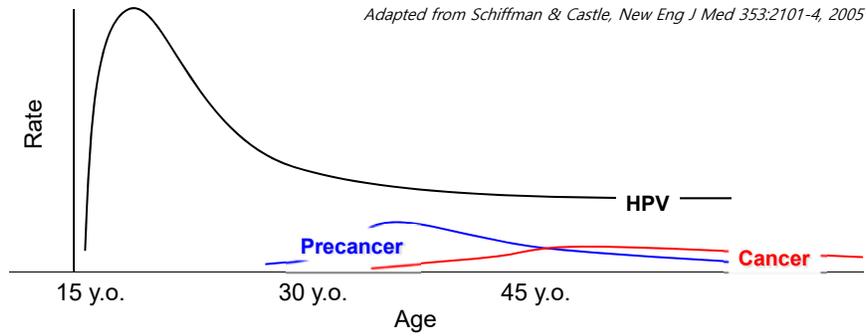


**"The measure of success is not whether you have a tough problem to deal with, but whether it is the same problem you had last year."**

- John Foster Dulles

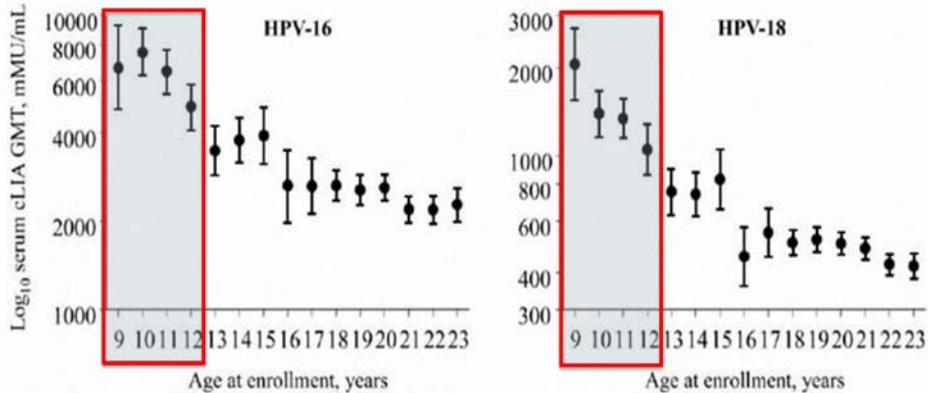
## Why Recommend at age 11 – 12?

- HPV infection highest in adolescence and young adulthood
- Vaccinate **prior** to exposure to build immunity
- Virus is spread through any skin-to-skin contact in genital area (not only intercourse)



Timeline of Cervical HPV Infections and Progression to Cervical Cancer

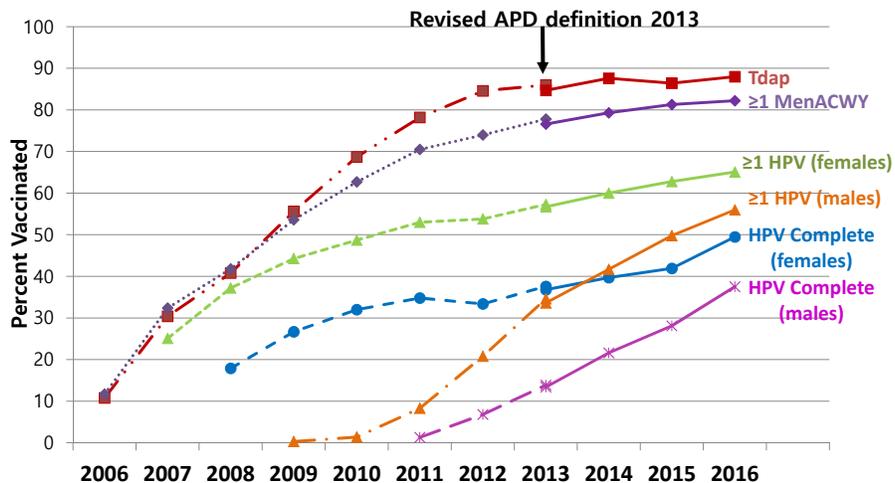
## Immune response is highest before age 13



Immunogenicity evidence from 5 clinical studies

Giuliano et al., 2007, *J Infectious Diseases*

## HPV Vaccination Rates Remain Low, Teens Ages 13-17, US, 2006-2016



Walker et al. MMWR 2017;66(33):874-882

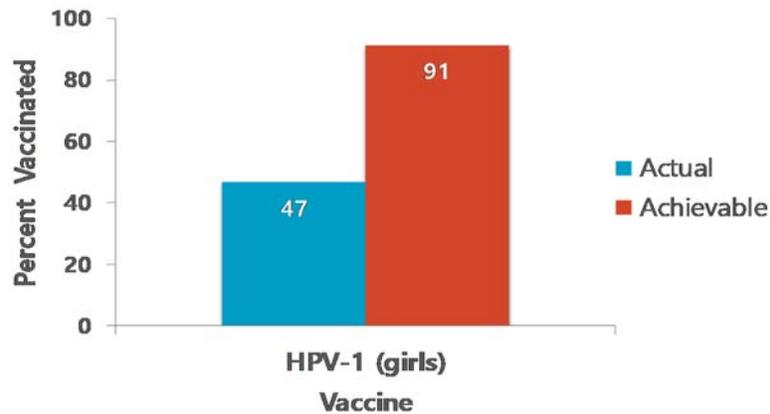


## Missed Opportunities

- Surveys of both providers and parents show providers frequently fail to recommend HPV vaccine for age-eligible pre-teens
  - Each time this happens, there is a missed opportunity to prevent cancer.

Reiter PL, Gilkey MB, Brewer NT. HPV vaccination among adolescent males: results from the National Immunization Survey-Teen. *Vaccine*. 2013;31(26):2816-21. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/23602667>  
 Vadaparampil ST, Kahn JA, Salmon D, Lee JH, Quinn GP, Roetzheim R, et al. Missed clinical opportunities: provider recommendations for HPV vaccination for 11-12 year old girls are limited. *Vaccine*. 2011;29(47):8634-41. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/21924315>

## Impact of Eliminating Missed Opportunities by Age 13 Years in Girls Born in 2000



Missed opportunity: Healthcare encounter when some, but not all ACIP-recommended vaccines are given. HPV-1: Receipt of at least one dose of HPV. MMWR. 63(29):620-624.



## QI Project: University Pediatrics

### Goals:

- Bundle adolescent vaccines during 11-12 year old well visits



- Increase uptake of HPV vaccine

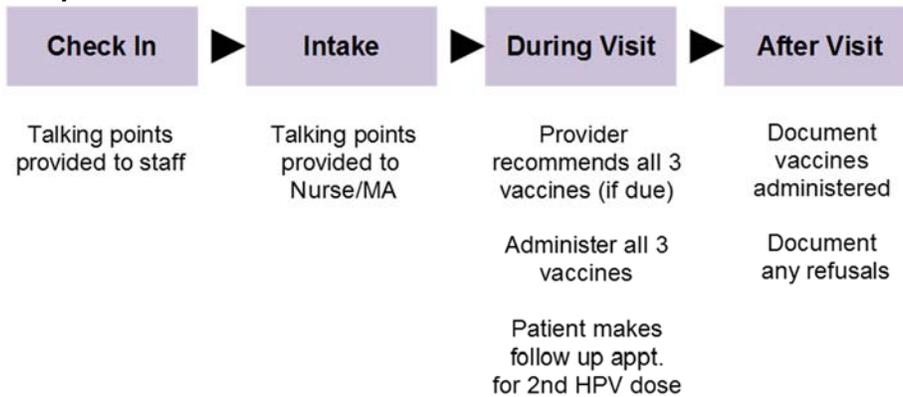




# Sample Workflow

Bundle 3 adolescent vaccines at the same visit starting at age 11

**Sample Workflow:**



## Thank You!

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