

### **Quality Insights**

Training Medical Providers on Best Practices for HPV Vaccination



December 7, 2023

# Disclosures

 Speakers and planners for this educational activity have NO relevant financial relationships with ineligible companies to disclose.





# Quality Insights Overview

- Non-profit organization focused on data-drive community solutions to improve health care quality in pursuit of better care, smarter spending, and healthier people.
- Change agent, trusted partner and integrator of organizations collaborating to improve care.

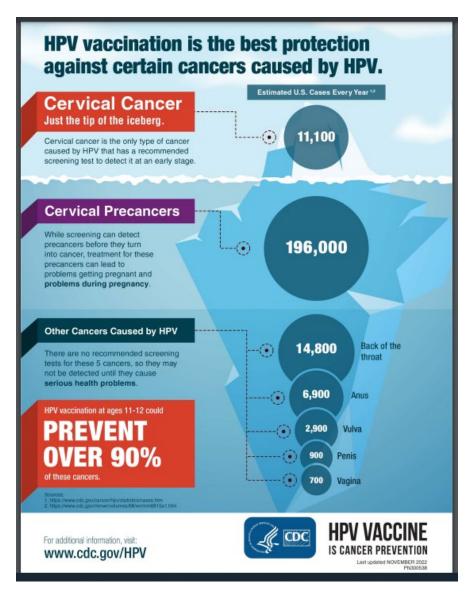




# Learning Objectives

- Examine key statistics of HPV-attributable cancer rates
- Assess current HPV vaccination rates in Delaware
- Review the components of the HPV quality improvement project
- Discuss practice specific success stories





Download this flyer.



# Oropharyngeal Cancers

Most common HPV-associated cancer in the U.S. and number of new cases is increasing each year

Over 14,800 cases annually; 70% caused by HPV

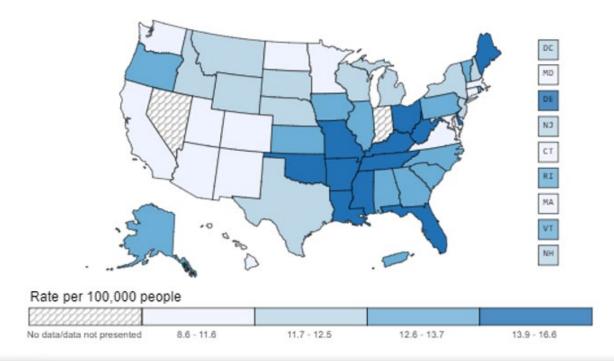
Study found that oral HPV infections were 88% lower in HPV vaccinated individuals

June 2020: Indication for Gardasil 9 for prevention of oropharyngeal and other head and neck cancers



## Delaware Statistics: HPV Attributable Cancer

Rate of New HPV-associated Cancers By State
All HPV-associated Cancers,
Male and Female, United States, 2016-2020

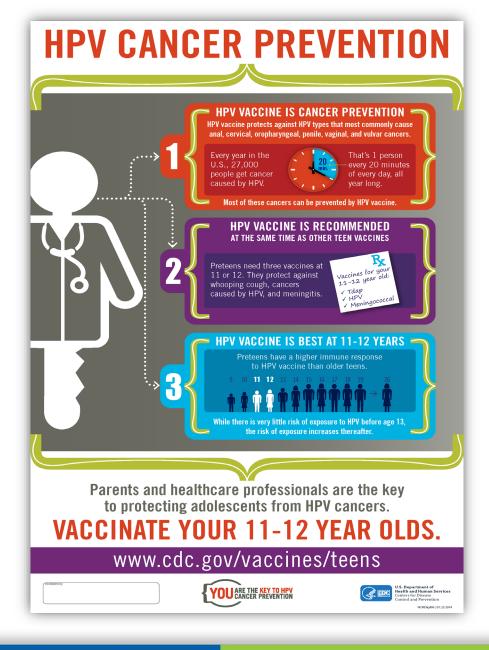


In Delaware in **2016-2020, the age-adjusted rate of All HPV-associated cancers** was **14.0** per 100,000 people (95% Confidence Interval: 13.0-15.0).

**867 cancer cases** were reported.

Source: CDC, n.d.



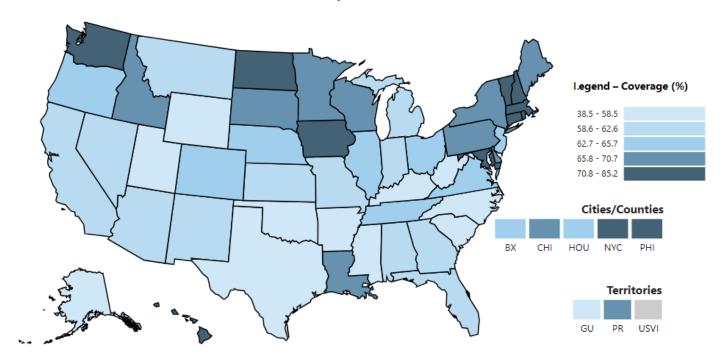


Download this <u>HPV Cancer Prevention</u> <u>infrographic</u> from the CDC.



# Delaware Statistics: HPV Vaccination Rate

Up-to-Date HPV Vaccination Coverage among Adolescents Age 13-17 Years, 2022, National Immunization Survey-Teen



Geography

Delaware

Coverage Estimate (%)

68.2

95% CI (%)

60.5 to 74.9

Sample Size

250

Source: <u>CDC</u>, 2021.



#### **HPV Vaccine Recommendation**

CDC recommends routine vaccination

at age 11 or 12 years to prevent HPV cancers

The vaccination series can be started at age 9 years

Patient should complete the series by the 13<sup>th</sup> birthday

Catch-up vaccination is recommended for females and males aged 13-26 years

Shared clinical decision making is recommended for some adults aged 27-45 years



# Quality Improvement Project

**Objective:** Increase HPV vaccination rates in Delaware through education, evidence-based intervention implementation, and DelVAX support.





# Practice Recruitment



- Program offered to over 100 practices
- Initiated the project with over 50 sites
  - 14 sites have been
     engaged for 3 or more
     years

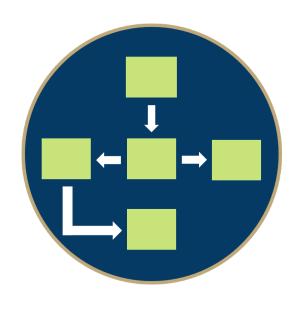


# **Barriers**

- Resources
  - Financial
  - Human
- Provider/practice beliefs
  - "Vaccinate Everyone"
  - Already have a vaccine initiatives in place
- Policy
  - Legal (health systems)
  - Legislative/regulatory



# Workflow Modifications to Improve HPV Vaccination Rates



- Academic Detailing (AD)\*
- Data Reconciliation
- Patient Postcard Reminder Campaign\*
- Patient Reminders for Nurse Visit\*
- Patient inactivation and adding historical records in DelVAX
- Clinical Decision Support (provider reminders)\*
- Scheduling next visit/immunization before leaving\*
- Other



<sup>\*</sup> Evidence-based workflows

# **Academic Detailing**

#### Curriculum Overview

- Five modules
- Detailing piece, one-pager, pocket guide
- Assessments
- Recruitment flyer
- Literature review

#### Purpose

- Modules are a guideline/reference for practice
- Assessments provide a baseline to customize discussions

#### Statistics

- 32 academic detailing sessions provided
- 29 unique provider sites





# Data Reconciliation

 Process of comparing vaccines documented in the practice EHR with the vaccines that are documented in DelVAX

| Charts Reconciled        | 8,882 |
|--------------------------|-------|
| Vaccines Added to DelVAX | 1,412 |
| Vaccines to Add to EHR   | 544   |



# Data Reconciliation

- Practice A:
  - Up-to-date vaccination rate for 13-17 year olds increased from 51.3% to 61%, for a relative improvement of 18.9%

| Practice A HPV Data Reconciliation |      |  |
|------------------------------------|------|--|
| Charts Reconciled                  | 1739 |  |
| Vaccines Added to DelVAX           | 213  |  |
| Vaccines to Add to EHR             | 129  |  |



# **Importance**



- CDC may transition to IIS data from NIS-Teen data for vaccine reporting
- Reconciliation establishes a true baseline for quality improvement
- Improves accuracy of reporting in DelVAX

# **Barriers**

Patients unable to be located in DelVAX

Birthdate mismatch

Multiple accounts

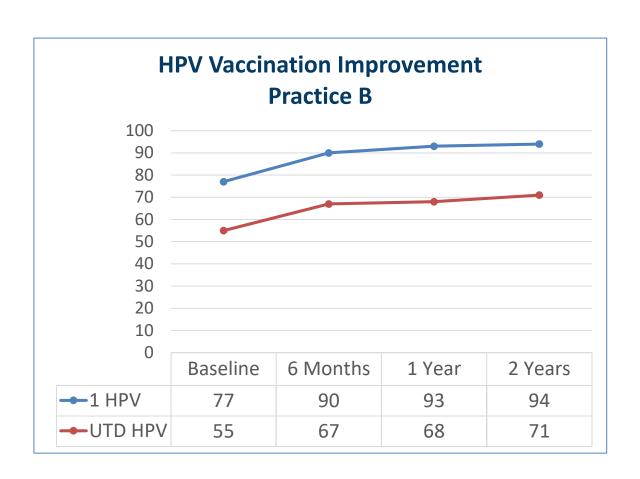
Dose Issues



# Multi-Pronged Approach Success Story

#### Practice B:

- Engaged in project December
   2021
- Education
  - Two academic detailing sessions
- Ongoing technical assistance with HPV champions
- Implemented three workflow modifications
  - DelVAX roster clean up monthly
  - Patient reminder campaign
  - Reminder/Recall





# HPV Medical Education and Rate Increases



**HPV Vaccine Initiation** 

**15.3%**†

relative increase for DE practices from baseline to year 4



**Up-to-date HPV Vaccine** 

**50%**1

relative increase for DE practices from baseline to year 4



# Maintenance of Certification

- Quality Insights has partnered with Christiana Care to offer Part IV Maintenance of Certification credits for the American Board of Pediatrics, American Board of Internal Medicine, and American Board of Family Medicine.
  - Any provider participating in the quality improvement project qualifies to receive the credits. For questions, please contact MOC@christianacare.org.

# HPV VACCINE IS CANCER PREVENTION And YOU are the key!



#WeCanStopHPV



# Fun Stuff

- Please follow Quality Insights on social media
  - X: @Qual\_Insights
  - LinkedIn: www.linkedin.com/company/qualityinsights
- Contact email: <u>EHarry@qualityinsights.org</u> for more information on the project or to receive quarterly HPV newsletters





