HPV and Cancer Control

The State of HPV and Cancer in Pennsylvania

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Objectives:

1. Report the incidence of HPV-associated cancers in PA and the US
2. Report HPV vaccination rates in PA and US
3. Compare CHIP vaccination rates to PA and US rates
4. Discuss HPV vaccination as a cancer control priority

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HPV-Associated Cancers 2008-12

In the United States:

- 38,793 HPV-associated cancers
- 23,000 female cases
- 15,793 male cases

Source: Viens LJ, Henley SJ, Watson M, et al. Human Papillomavirus–Associated Cancers — United States, 2008–2012. MMWR Morb Mortal Wkly Rep 2016;65:661–666. DOI: http://dx.doi.org/10.15585/mmwr.mm6526a1.

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HPV-Associated Cancers 2008-12

In the United States:

Cervical cancer

- most common in females
  - 11,771 cases

Oropharyngeal cancer

- most common in males
  - 12,638 cases

Viens LJ, Henley SJ, Watson M, et al. Human Papillomavirus–Associated Cancers — United States, 2008–2012. MMWR Morb Mortal Wkly Rep 2016;65:661–666. DOI: http://dx.doi.org/10.15585/mmwr.mm6526a1

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HPV Associated Cancers 2008-12

CDC US estimates:

- 30,700 cancers (79%) attributed to HPV
- 28,500 of these cancers attributed to HPV types prevented by 9-valent HPV vaccine

Viens LJ, Henley SJ, Watson M, et al. Human Papillomavirus–Associated Cancers — United States, 2008–2012. MMWR Morb Mortal Wkly Rep 2016;65:661–666. DOI: http://dx.doi.org/10.15585/mmwr.mm6526a1.

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HPV Associated Cancers 2008-12

HPV responsible for:

- 91% cervical cancers
- 75% vaginal cancers
- 63% penile cancers
- 70% oropharyngeal cancers

Source: Centers for Disease Control and Prevention (CDC) How Many Cancers Are Linked with HPV Each Year. July, 16, 2016
http://www.cdc.gov/cancer/hpv/statistics/cases.htm

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HPV Associated Cancers 2008-12

- Incidence* of HPV associated cancers

	Overall	Male	Female
US	11.7	9.7	13.5
PA	11.9	9.4	14.2

*Age adjusted incidence per 100,000 U. S. standard population

Source:Viens LJ, Henley SJ, Watson M, et al. Human Papillomavirus–Associated Cancers — United States, 2008–2012. MMWR Morb Mortal Wkly Rep 2016;65:661–666. DOI: http://dx.doi.org/10.15585/mmwr.mm6526a1.

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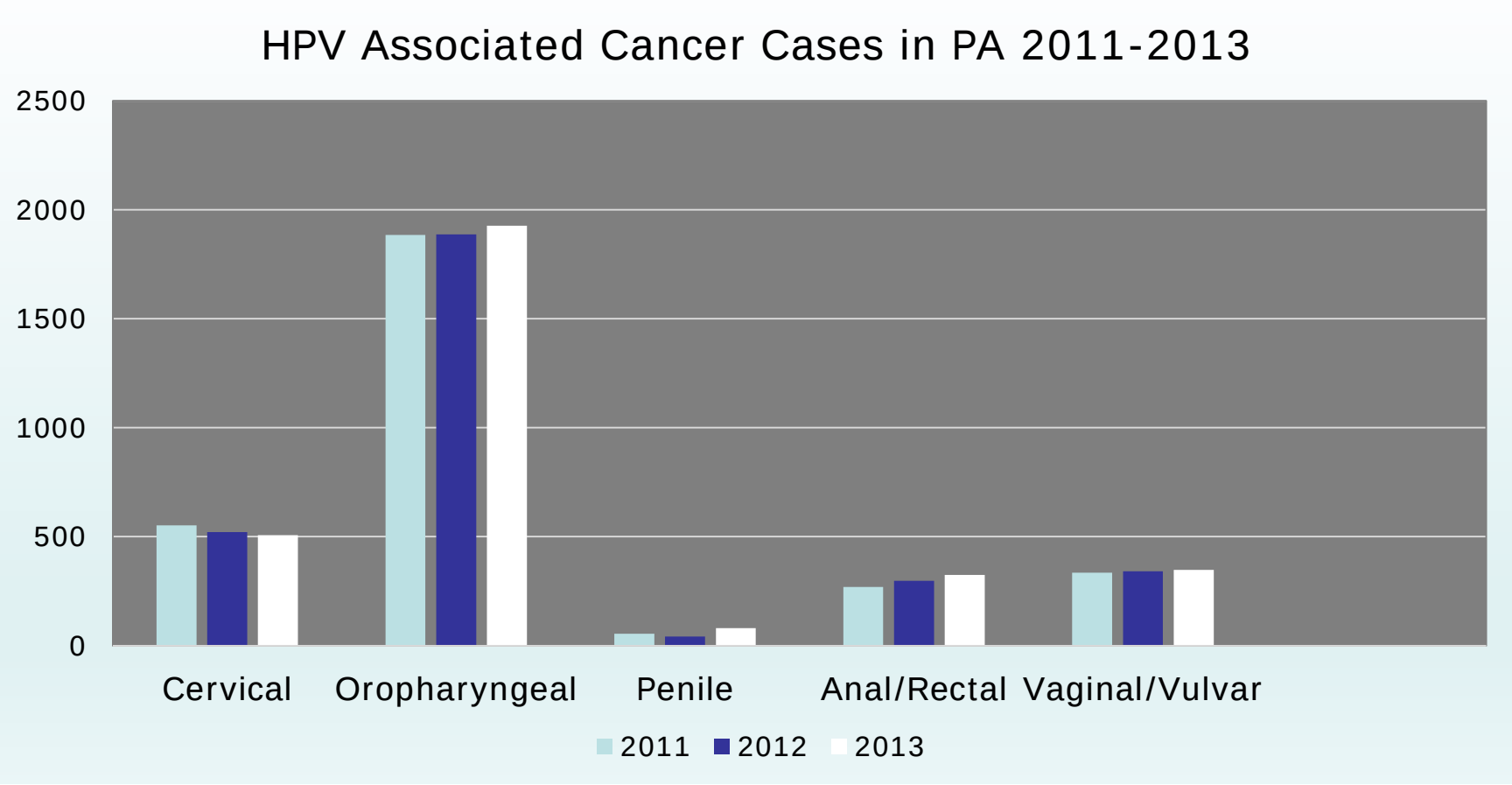
HPV Associated Cancers in PA



Source: PA Cancer Registry Data Set

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Estimated Teen HPV Vaccination Coverage, NIS-Teen 2013-2014

Healthy People 2020 Goal=80%

Females				**Males**		
HPV	≥1 dose	≥2 doses	≥3 doses	≥1 dose	≥2 doses	≥3 doses
Pennsylvania						
2013*	59.3%	53.7%	46.2%	43.2%	27.2%	15.9%
2014	66.8%	57.9%	48.2%	47.4%	35.9%	26.0%
US						
2013*	56.7%	46.9%	36.8%	33.6%	22.6%	13.4%
2014	60.0%	50.3%	39.7%	41.7%	31.4%	21.6%

Source: CDC. National, Regional, State, and Selected Local Area Vaccination Coverage among Adolescents Aged 13-17 Years: United States, 2014. *Morbidity and Mortality Weekly Report (MMWR)*. July 31, 2015.
*

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HEDIS HPV 3 dose Vaccination Measures females- CHIP Contractors-2015 rates

Contractor	Eligible Population	Denominator	Total Numerator Events	Reported Rate
Aetna	200	200	48	24.00%
CBC	377	377	87	23.08%
Geisinger	172	172	39	22.67%
Health Partners	97	97	28	28.87%
Highmark	244	244	50	20.49%
Keystone West	332	332	85	25.60%
IBC	573	453	91	20.09%
NEPA	162	162	27	16.67%
United	481	411	110	26.76%
UPMC	395	395	105	26.58%
Average Rate for all Contractors				**23.48%**

HPV: You Are the Key to Cancer Prevention

PA Cancer Control Program Goal:

Increase 3 dose completion HPV vaccination rates for males and females 13-15 years of age by 20% by June 2017

- HPV vaccination - CDC and National Comprehensive Cancer Control priority

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PA is on the right track!

The Pennsylvania immunization program received two 2015 vaccination coverage awards:

1. Healthy People 2020 (HP2020) Influenza Vaccination among Children Aged 6 Months-17 Years
2. Healthy People 2020 (HP2020) among Adolescents Aged 13-17 Years. (which includes HPV 1st dose)

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Call to Action

1. Review Your Coverage
2. Set A Goal
3. Utilize Reminder Recall Systems
4. Recommend *Same day/Same way* as other adolescent vaccines

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For more information

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  Cancer Plan Manager

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  - jstoms@pa.gov

- Centers for Disease Control and Prevention
  - HPV Resources for Healthcare Professionals
    - http://www.cdc.gov/hpv/hcp/index.html

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