

# The Burden of HPV Related Cancers in Kentucky



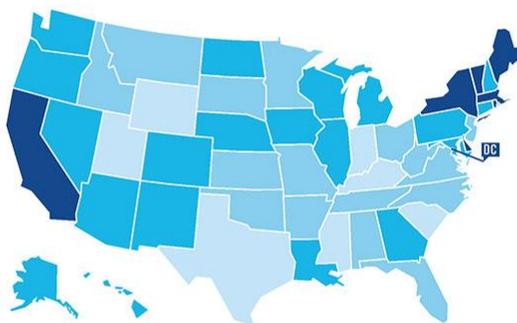
Presented on November 15, 2017  
by Katie Bathje, Kentucky Cancer Consortium

Many thanks to:  
**Thomas C. Tucker, PhD, MPH**  
**Jaclyn Nee, DrPH**



## [ HPV vaccination is the best way to protect your children from cancers caused by HPV ]

Percentage of adolescent boys and girls who have received one or more doses of HPV vaccine\*



**NATIONWIDE**  
**6 OUT OF 10**

parents are choosing to get the human papillomavirus vaccine for their children.

National coverage is 60%

Coverage by state:

- 49% or less
- 50-59%
- 60-69%
- 70% or greater

**[ CDC RECOMMENDS THE HPV VACCINE AT AGES 11-12 ]**  
Talk to your child's doctor about HPV cancer prevention

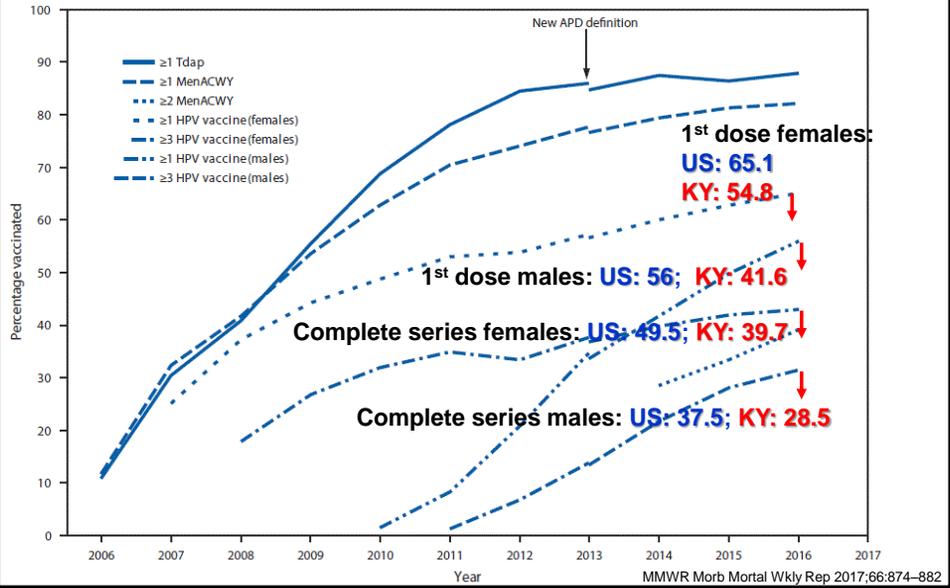
\*Estimated coverage with ≥1 dose of human papillomavirus (HPV) vaccine among adolescents aged 13-17 years, National Immunization Survey-Teen (NIS-Teen), United States, 2015. Source: MMWR August 25, 2017

[www.cdc.gov/hpv](http://www.cdc.gov/hpv)  
NCR201604 | August 25, 2017

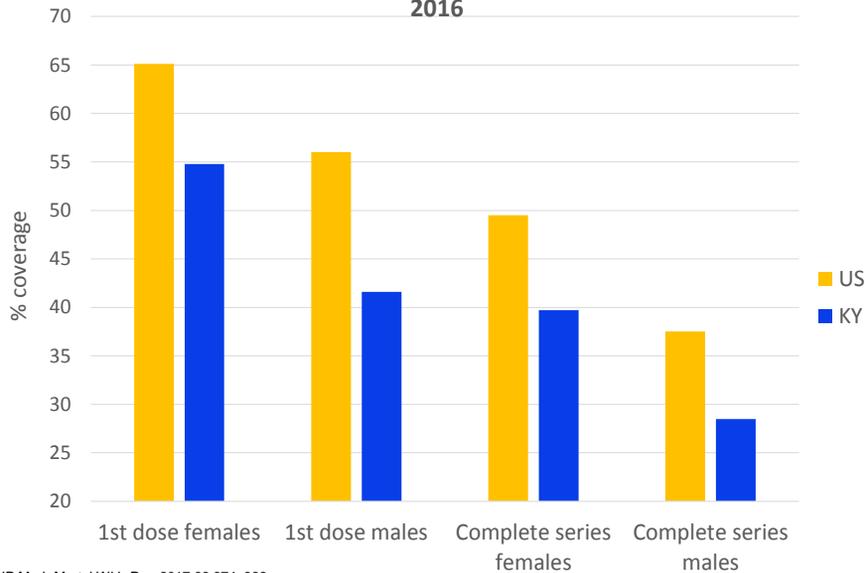


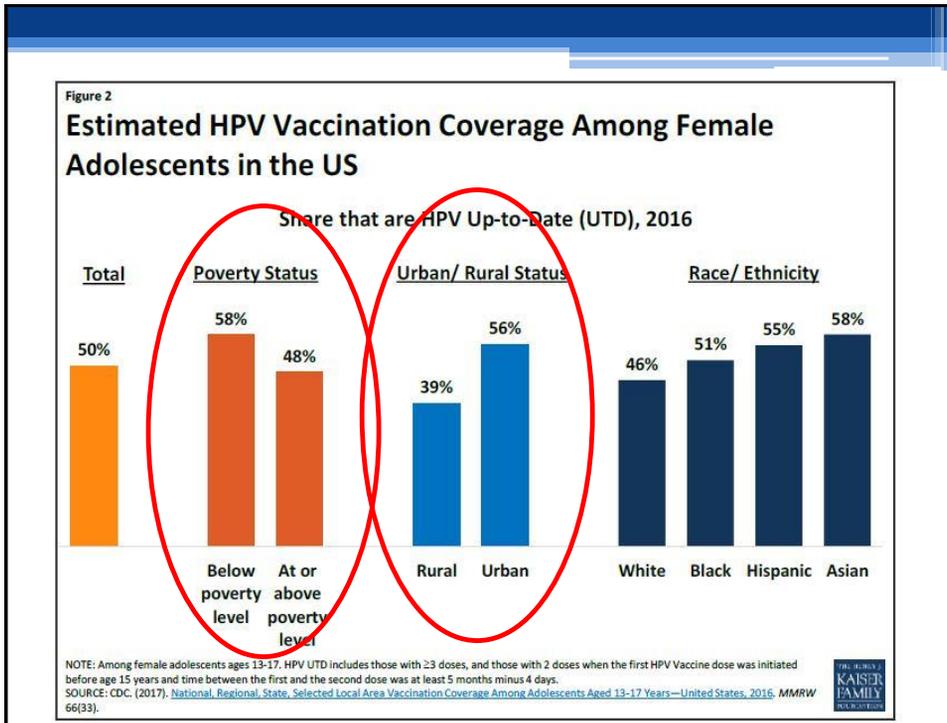
U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention

## Adolescent Vaccination Coverage U.S., 2006-2016



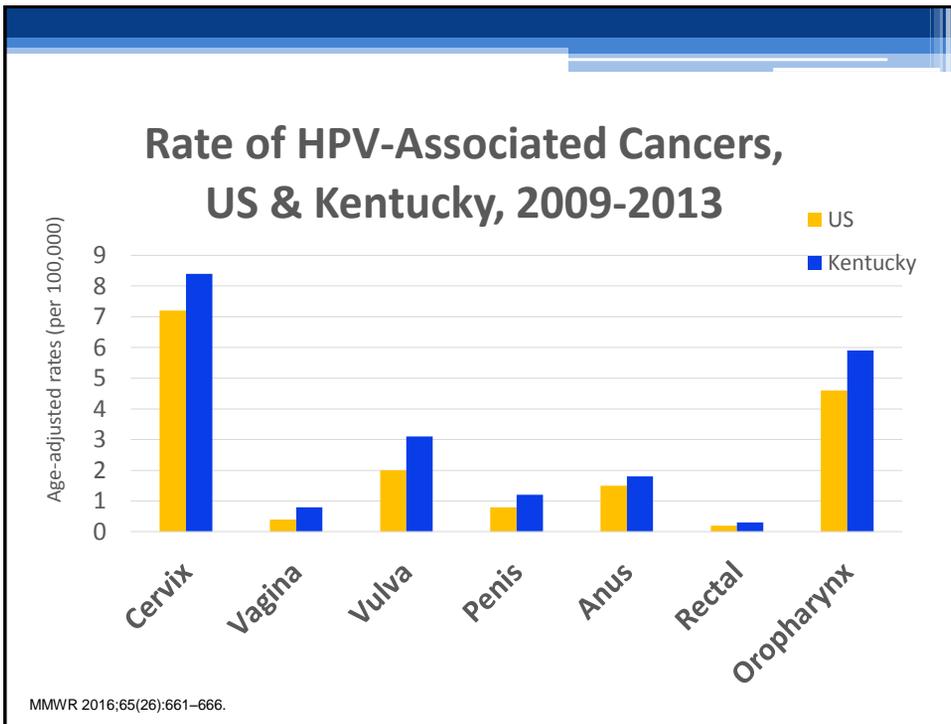
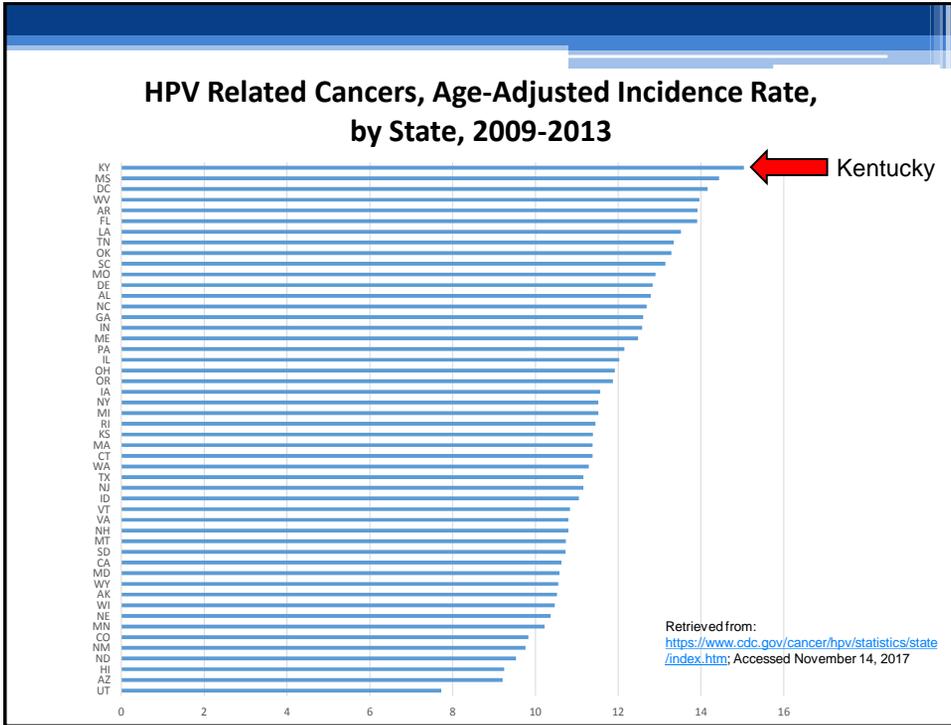
Estimated HPV vaccination coverage with selected doses among adolescents aged 13–17 years, US and KY, National Immunization Survey–Teen, United States, 2016

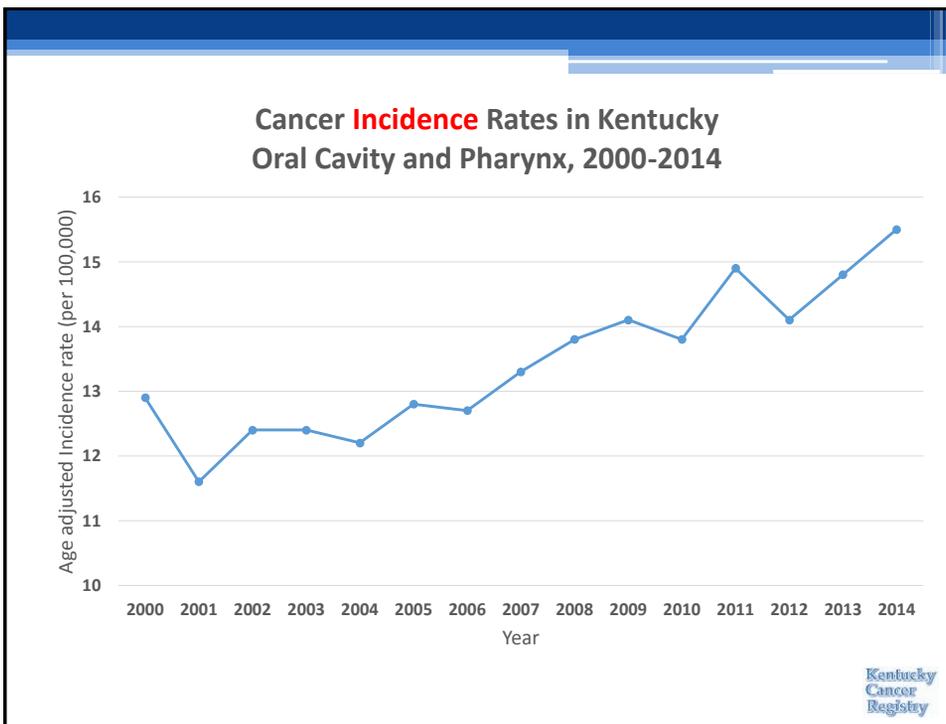
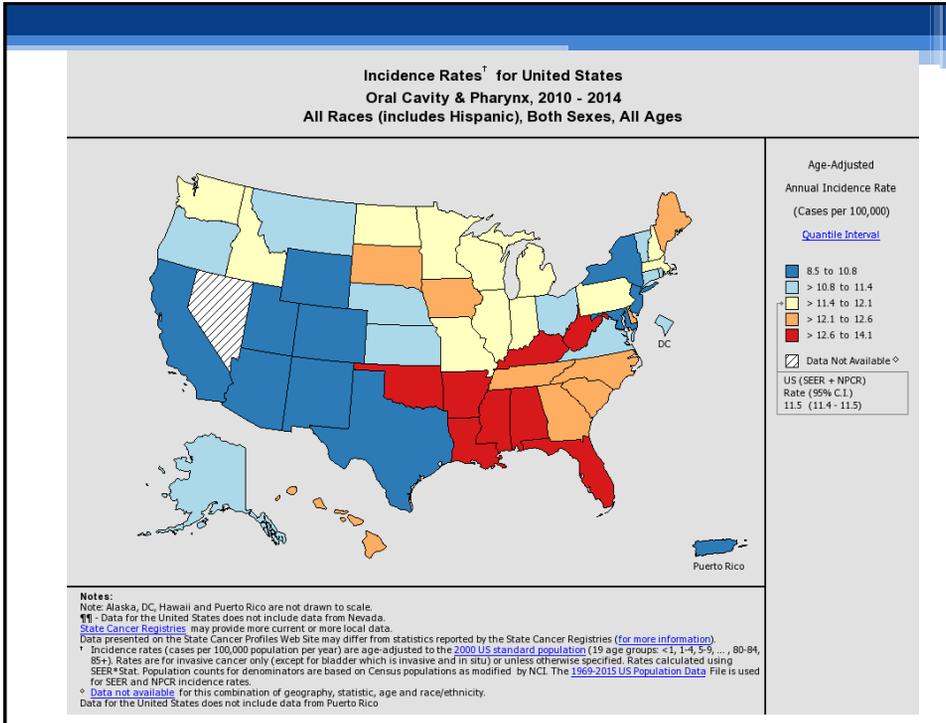




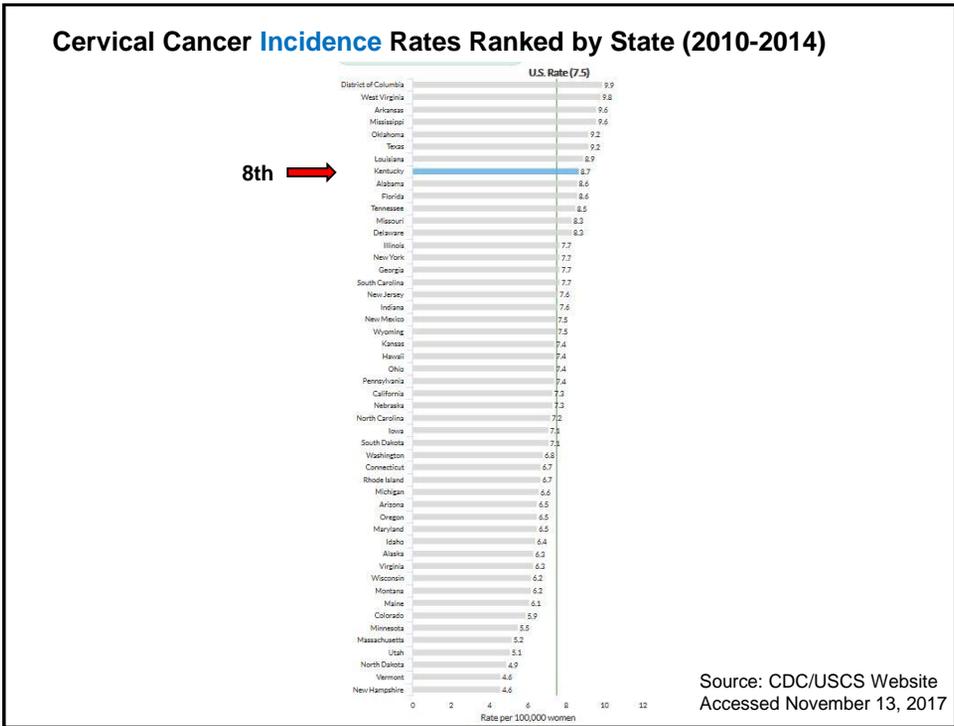
## Impact of Human Papilloma Virus

According to the CDC, in general, HPV is thought to be responsible for about **91%** of cervical cancers, **75%** of vaginal cancers, **69%** of vulvar cancers, **63%** of penile cancers, **91%** of anal cancers, and **70%** of oropharyngeal cancers.





# Cervical Cancer Incidence

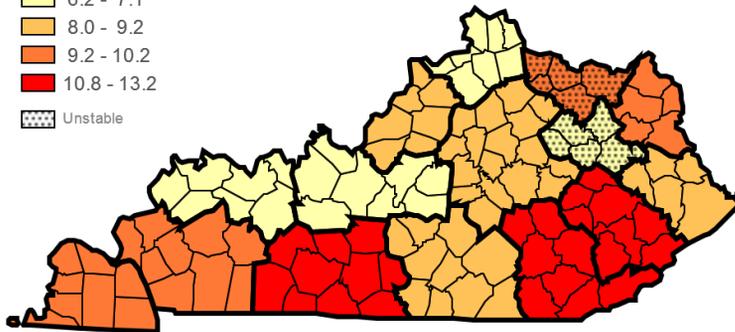
### Age-Adjusted Invasive Cancer Incidence Rates in Kentucky

Cervix Uteri, 2010 - 2014

By Area Development District

Age-Adjusted to the 2000 U.S. Standard Million Population

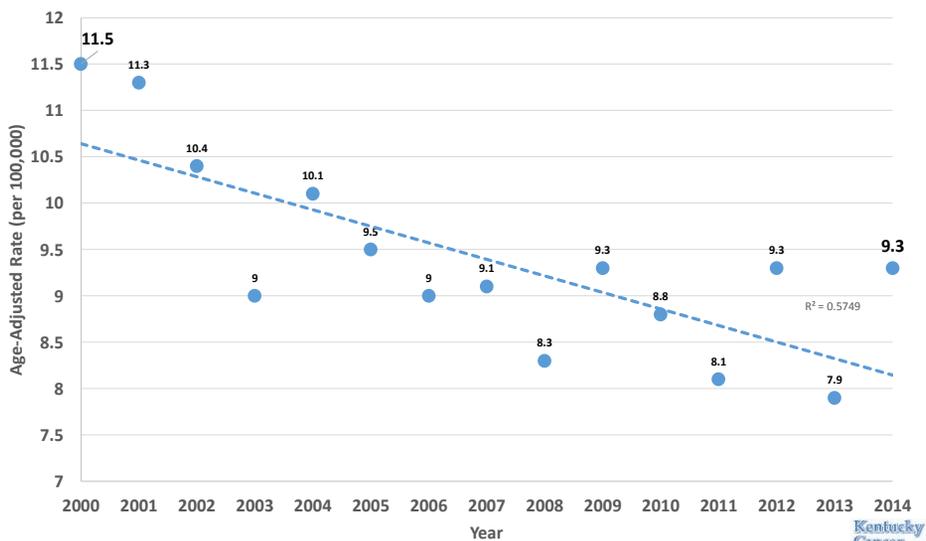
Kentucky Rate: 8.7 / per 100,000

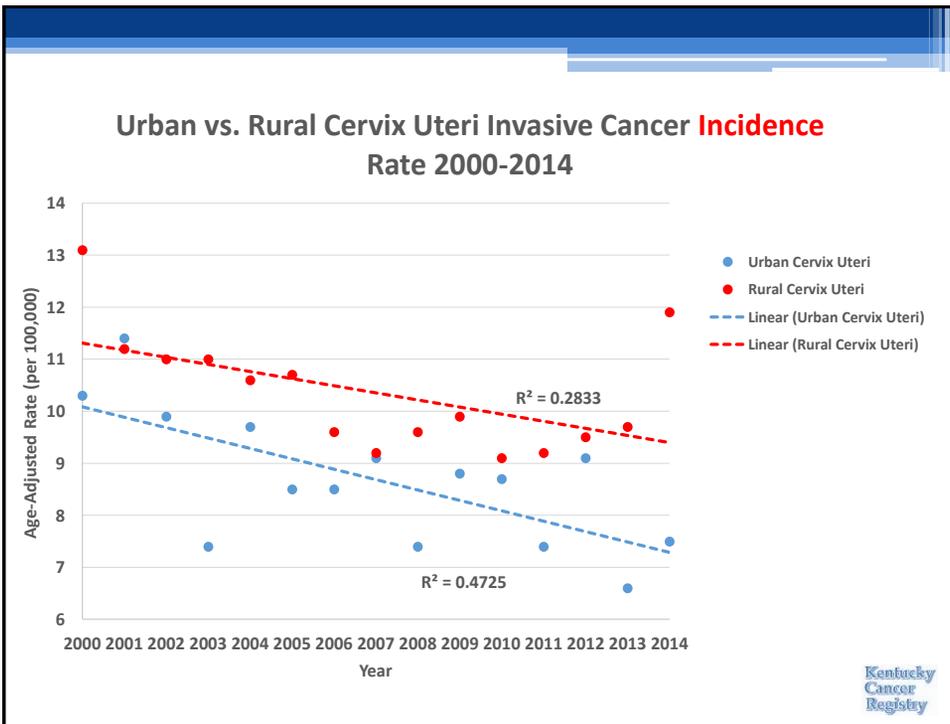
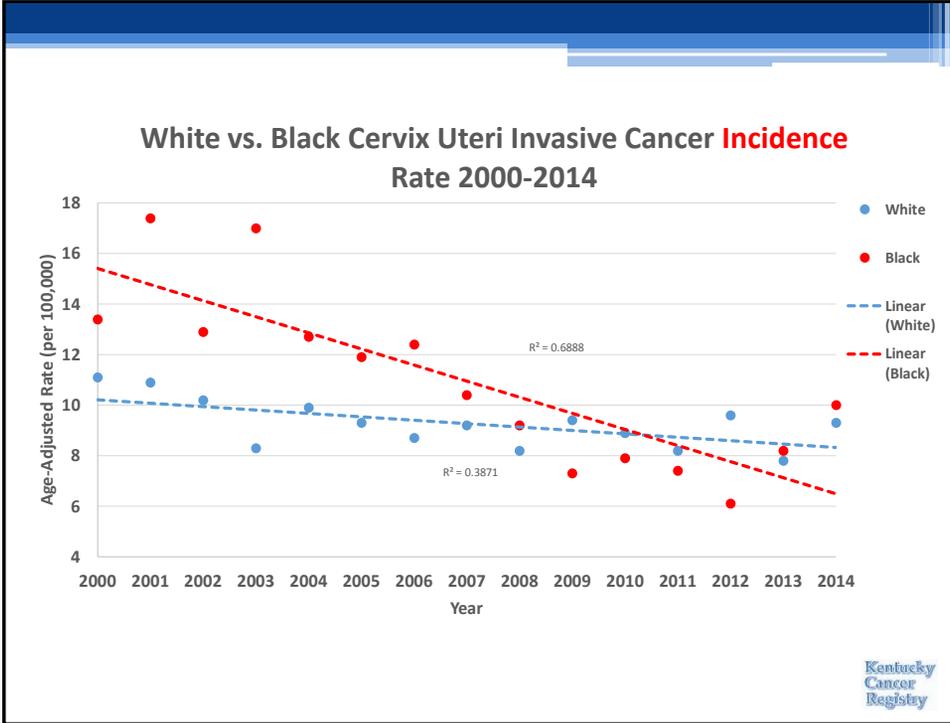


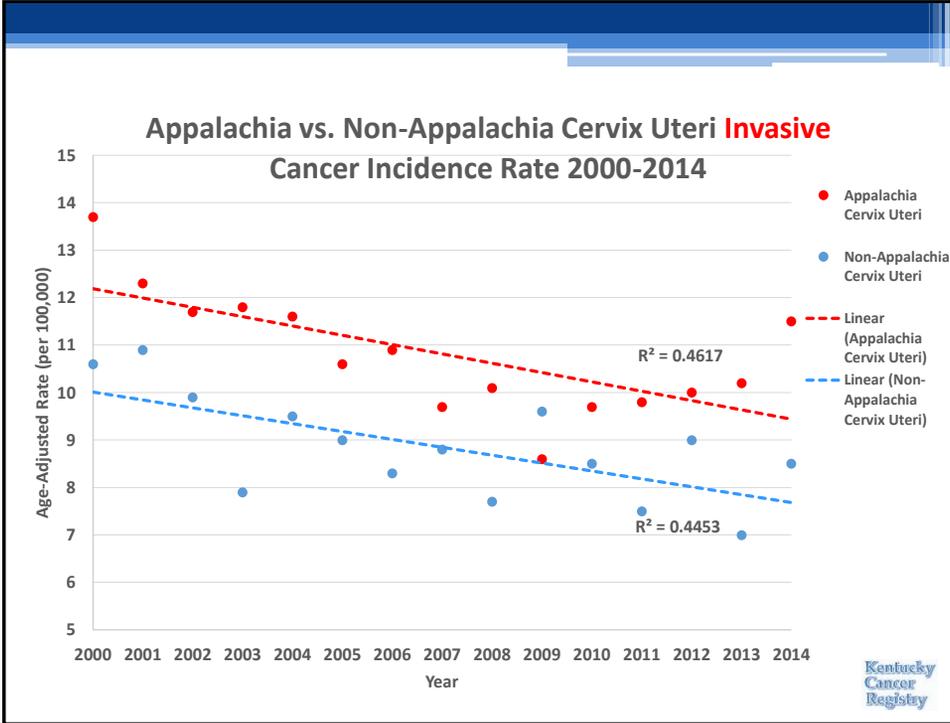
All rates per 100,000.  
Data accessed November 13, 2017. Based on data released Nov 2016.  
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### Cervix Uteri Invasive Cancer Incidence Rate 2000-2014

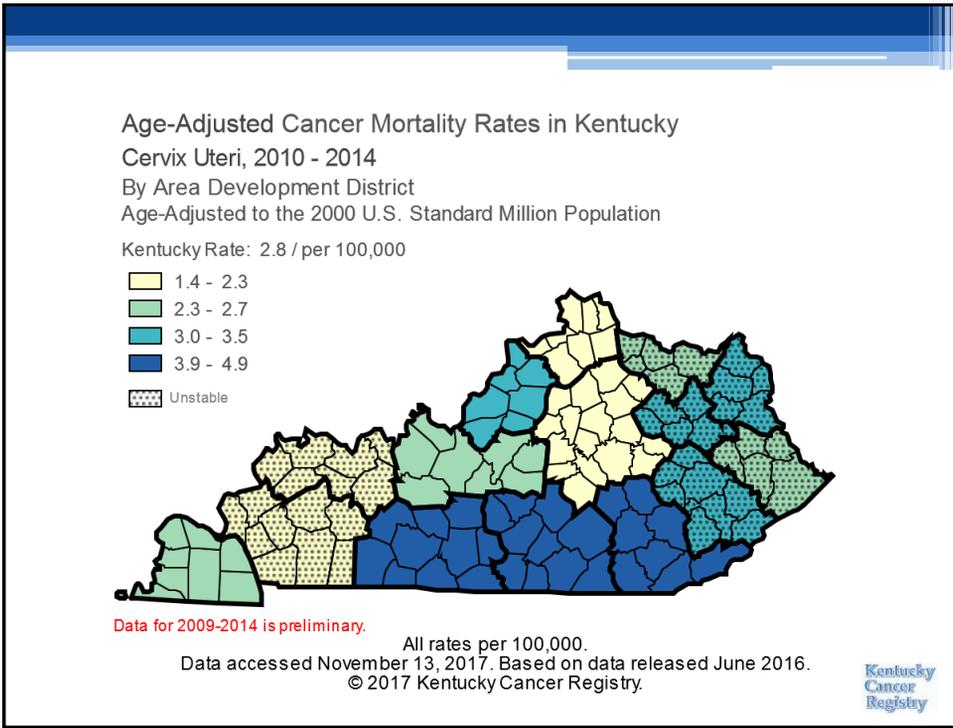
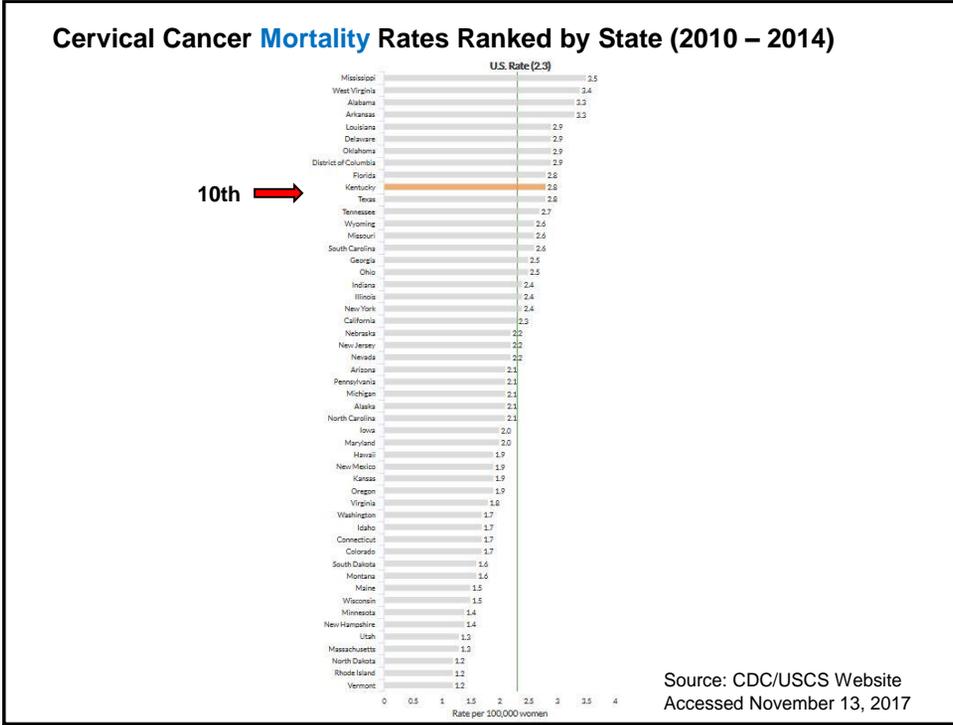


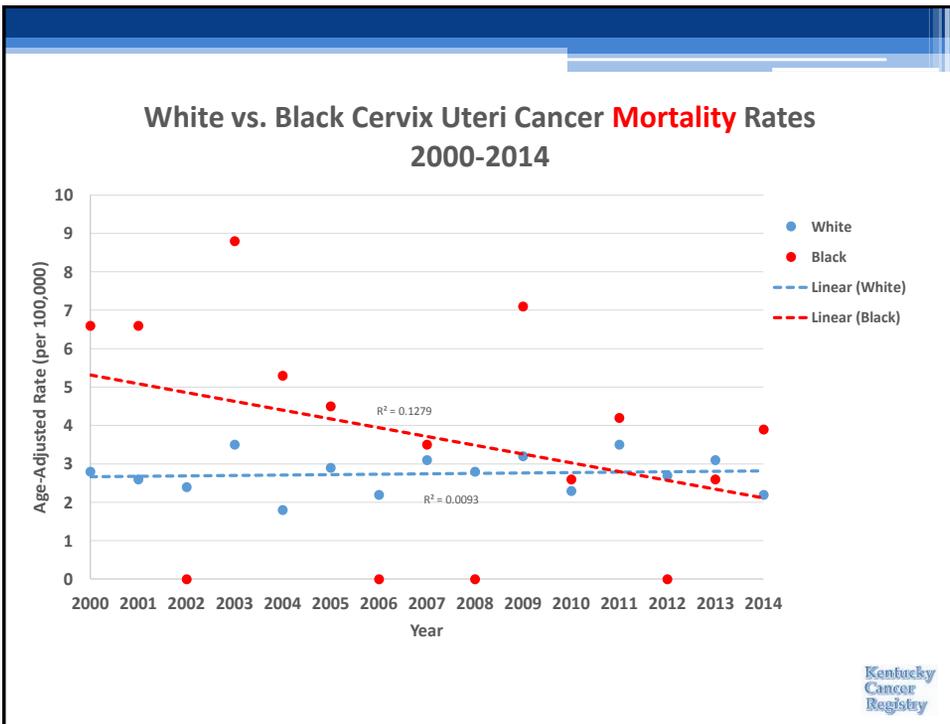
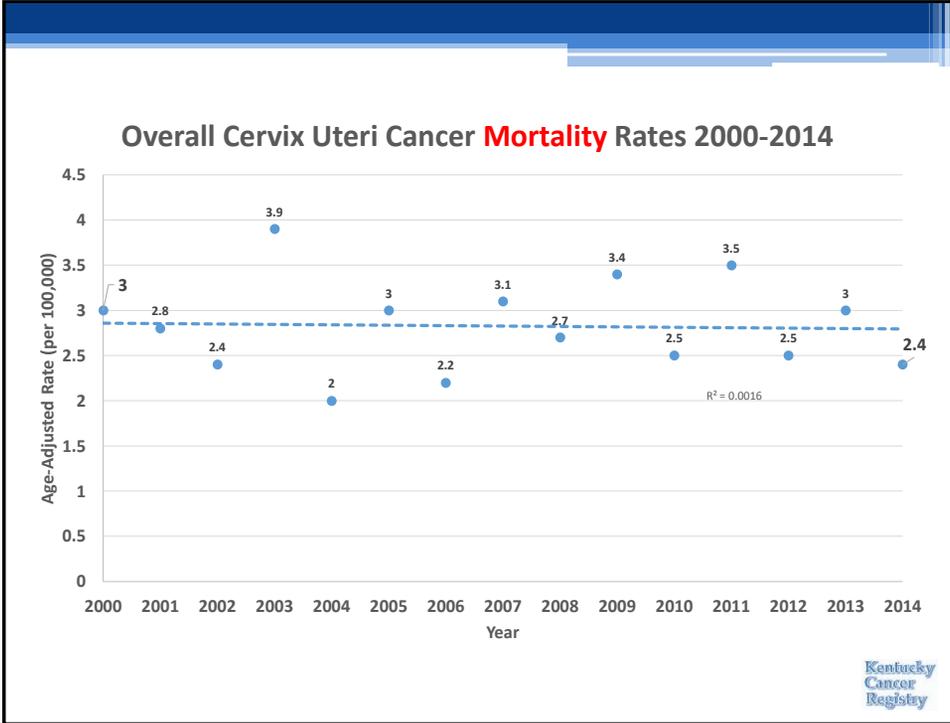


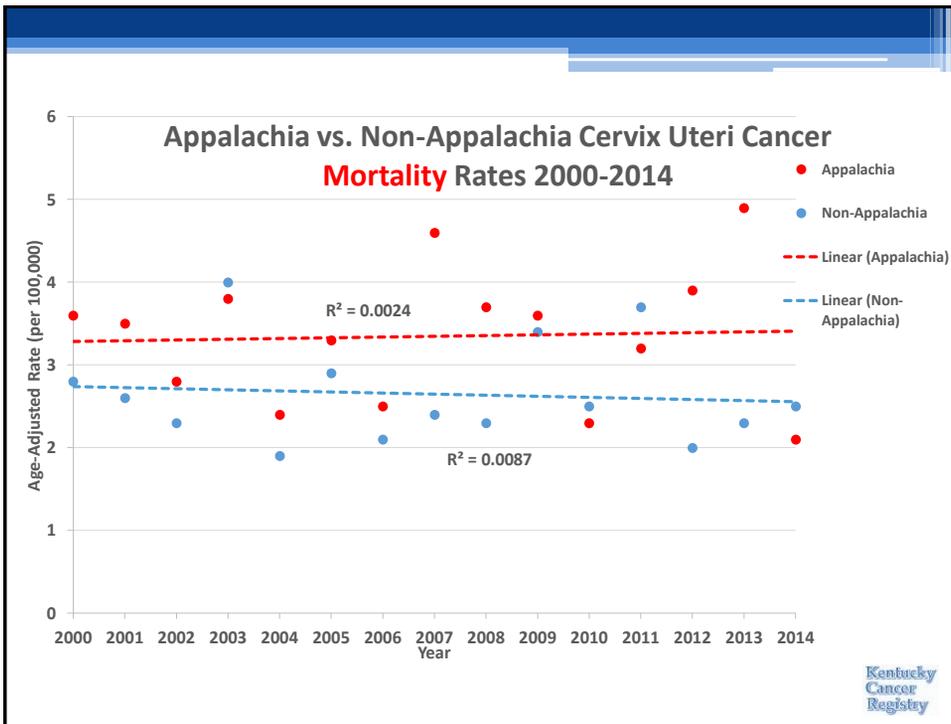
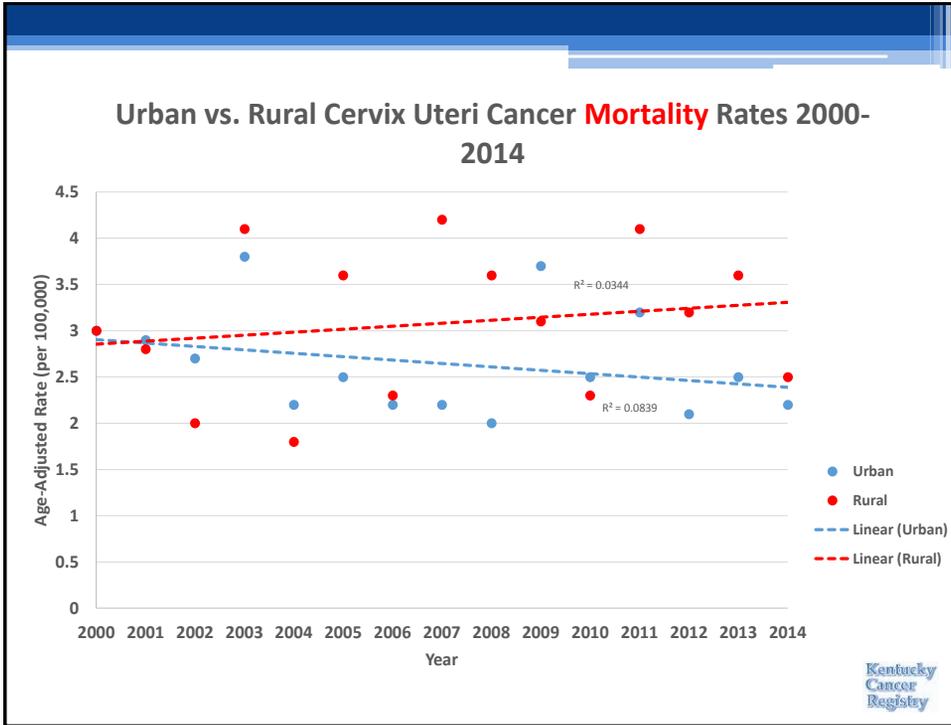


# Cervical Cancer Mortality

Kentucky Cancer Registry





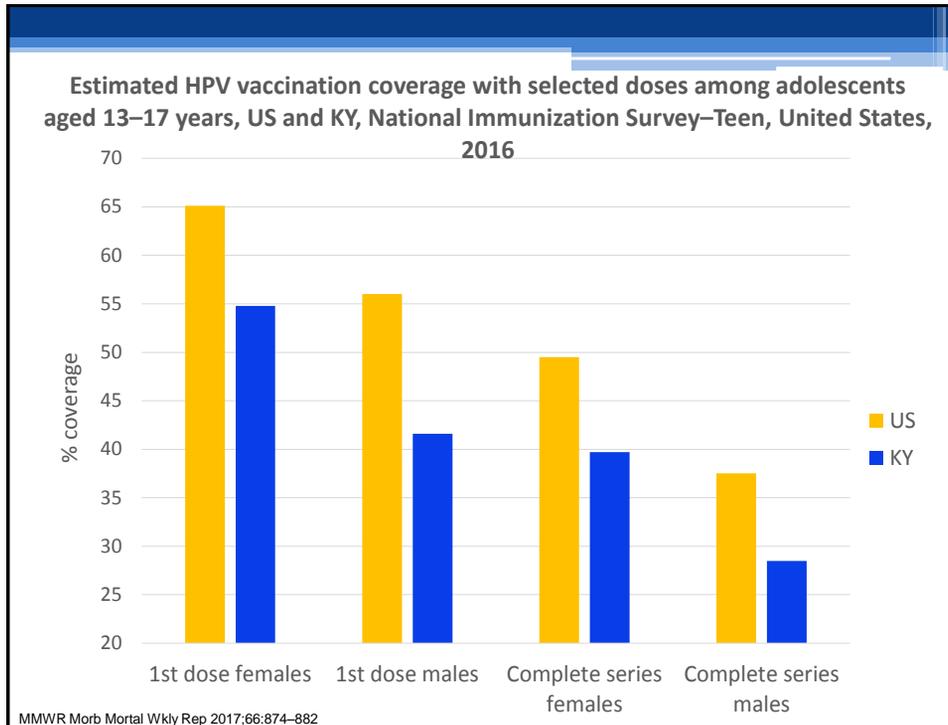


### Cervical Cancer by Area Development District in KY, 2009-2013

Area Development District	High School Education, 2009-2013		Pap Rate (%) 2012		Age-Adjusted Incidence		Overall Rank
	Percent	Rank	Percent	Rank	Rate	Rank	
Kentucky River	66.7	1	69.1	2	13.6	1	4
Cumberland Valley	68.8	2	72.1	4	11.9	2	8
Barren River	79.2	8	65.1	1	11.2	3	12
Big Sandy	70.0	3	72.0	3	8	9	15
Lake Cumberland	72.5	4	73.6	6	8.5	8	18
Fivco	79.2	7	72.2	5	8.5	7	19
Buffalo Trace	74.9	6	81.3	12	9.5	5	23
Pennyrile	80.8	9	77.4	9	8	9	27
Gateway	74.3	5	76.0	8	4.4	15	28
Purchase	83.7	11	82.1	14	9.7	4	29
Kipda	87.0	14	78.6	10	9.1	6	30
Northern Kentucky	87.1	15	74.0	7	7.6	12	34
Bluegrass	84.9	13	79.3	11	7.8	11	35
Lincoln Trail	83.2	10	81.6	13	7	13	36
Green River	83.8	12	83.7	15	6.5	14	41

Kentucky  
Cancer  
Registry

Reminder....



## The Hope of HPV Vaccine

- Uptake is rising
- Since its introduction 11 years ago, the vaccine:
  - covers more strains of HPV
  - use has been extended to males as well as females
  - the dosage has dropped from three to two shots
  - the cost is fully covered by private insurance and public programs
- *“The vaccine holds the promise to safely and dramatically reduce rate of and prevent many kinds of cancers that have long been responsible for the deaths of women and men across the United States and the world.”*



Thank you!

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