

# Cervical Cancer: HPV Vaccine

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## Purpose of Study

To examine the causes of cervical cancer and how scientists can prevent cervical cancer through the HPV Vaccine.

## Introduction

Cervical cancer is a cancer that affects the reproductive area of women called the cervix. Each year more than 12,000 women in the U.S. will be diagnosed with cervical cancer, among those women 4,000 will die. Scientists should dedicate their time to research this topic because a lot of women die from cervical cancer each year and a lot of women have cervical cancer that needs to be treated. Most cervical cancer is caused by the Human Papillomavirus (HPV). HPV is a common sexual transmitted disease. Among those commonly affected are young teens and early adults. An effective way to prevent HPV is getting an HPV vaccination.

## Public Perception

Some women don't want to test to see if they have cervical cancer because they're scared of what the results are going to be. Some women are scared of the risk of cervical cancer/HPV. The HPV vaccine is controversial and some people do not want to get the vaccine because it is very new and has not been on the market for a long time.

## Discoveries and Innovations

To decrease the number of cases of cervical cancer, scientists began developing a vaccine to protect people against HPV. The HPV vaccine was released in July of 2006, only 12 years ago. Many critics say that the vaccine is still too new to determine whether it is effective in preventing cervical cancer. However, a study released by the Center for Disease Control in 2013 determined that rates of HPV have decreased for young girls nationwide.

### HPV VACCINE IS CANCER PREVENTION

HPV vaccine protects against HPV types that most commonly cause anal, cervical, oropharyngeal, penile, vaginal, and vulvar cancers.

Every year in the U.S., 27,000 people get cancer caused by HPV.



That's 1 person every 20 minutes of every day, all year long.

Most of these cancers can be prevented by HPV vaccine.

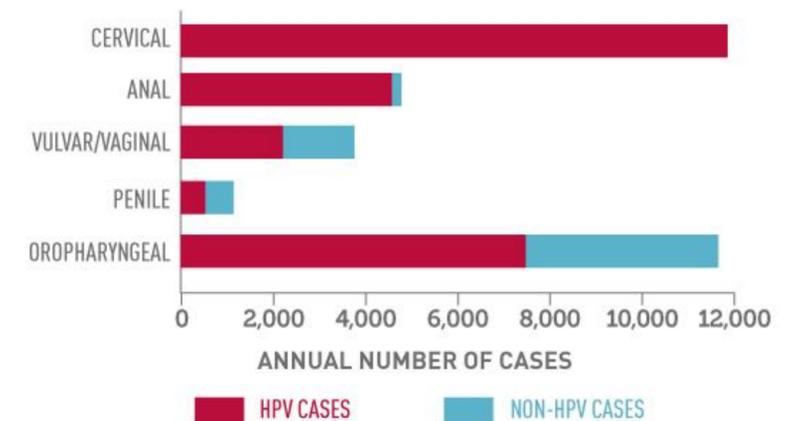
## Addressing the Disparity

Hispanic and African-American women are at a higher risk of getting cervical cancer in comparison to white women. Some Hispanic and black women don't have the transportation they need to get to a doctor or clinic.

## Data

### PROPORTION OF CANCERS CAUSED BY HPV IN THE UNITED STATES

HPV infection causes virtually all cases of cervical cancer and a substantial proportion of several other cancers.



Source: Schiller JT and Lowy DR. Understanding and learning from the success of prophylactic human papillomavirus vaccines. *Nat Rev Microbiol* 2012; 10(10): 681-692.

## Conclusion

The HPV vaccination is almost 100% effective on nine types of HPV strains (6,11,16,18,31,33,45,52, and 58) out of 100. But people are still wondering, how treatable is cervical cancer? Can you have children after being treated for cervical cancer? Does the HPV vaccine have any unknown side effects? More research should occur to answer these questions and many more.

## References

[www.cancer.gov](http://www.cancer.gov)  
[www.mdedge.com](http://www.mdedge.com)  
[www.CDC.gov](http://www.CDC.gov)