

HPV Vaccine, New Recommendation - Data Brief

Vermont Immunization Registry

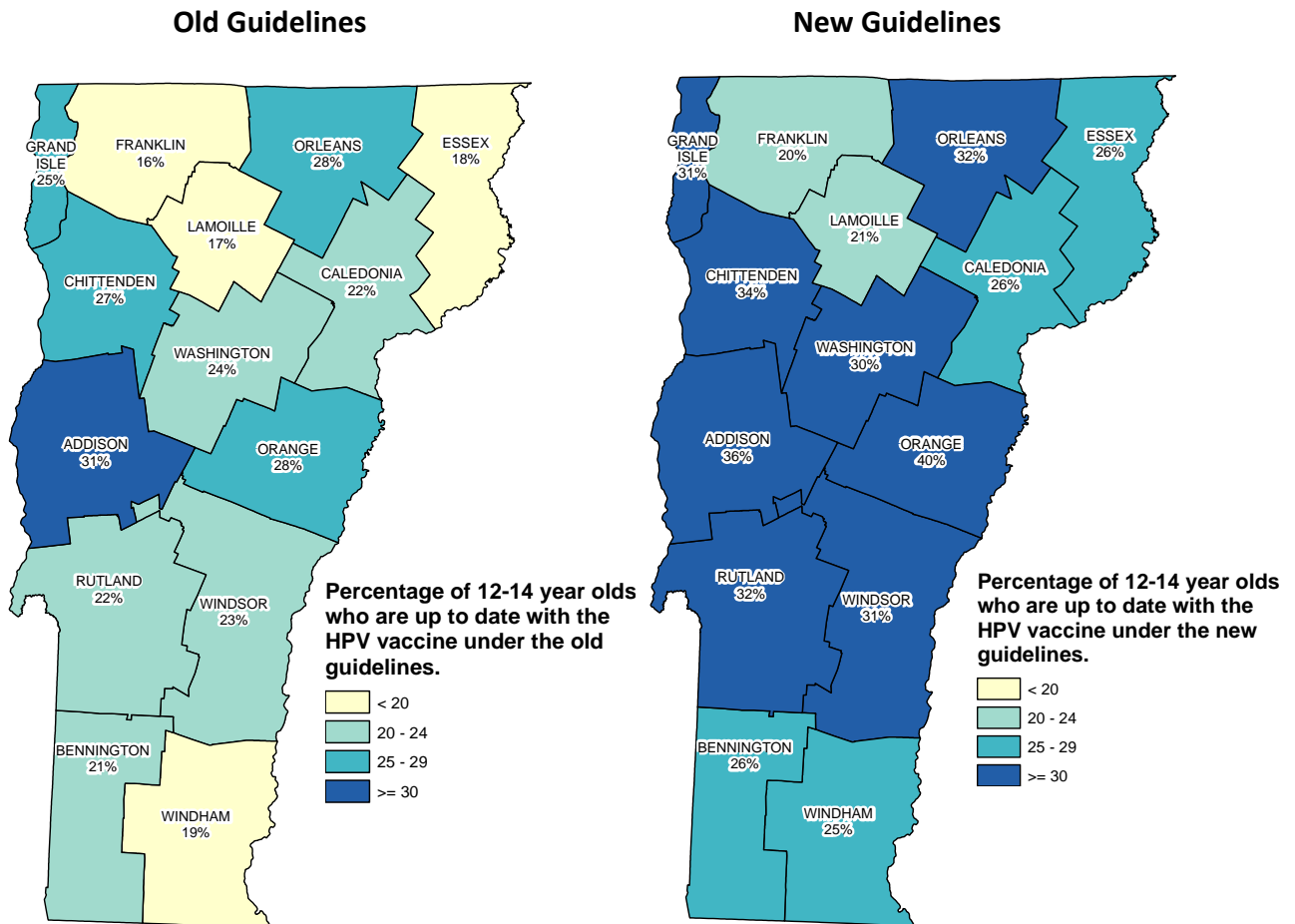
Background and New Recommendation

The human papillomavirus (HPV) vaccine is a safe and effective vaccine that prevents numerous different types of cancer. In 2006 the first HPV vaccine was licensed for girls, and five years later recommended for use in boys.^{1,2} The original ACIP/CDC vaccination schedule consisted of three HPV vaccinations given over a six-month period.

In October 2016, the recommendation was changed to a 2-dose schedule, 6 to 12 months apart, for adolescents who start the series before the age of 15.³ People who start the series after the age of 15 should still follow the original 3-dose schedule. Most HPV infections resolve without treatment, but some types of HPV can cause cervical, genital, anal, or oral cancer.

Impact of the New Recommendation

The two maps below demonstrate the impact of the new recommendation. The map on the left shows HPV coverage among adolescents 12 through 14 years of age based on the previously established guidelines for a three-dose series. The map on the right shows HPV coverage for the same adolescents under the new guidelines. Adolescents who receive their first dose of HPV before their 15th birthday will be up to date after only two doses, given at least five months apart. It is important to note that anyone who starts the HPV series at age 15 or older must have three doses to complete the series.

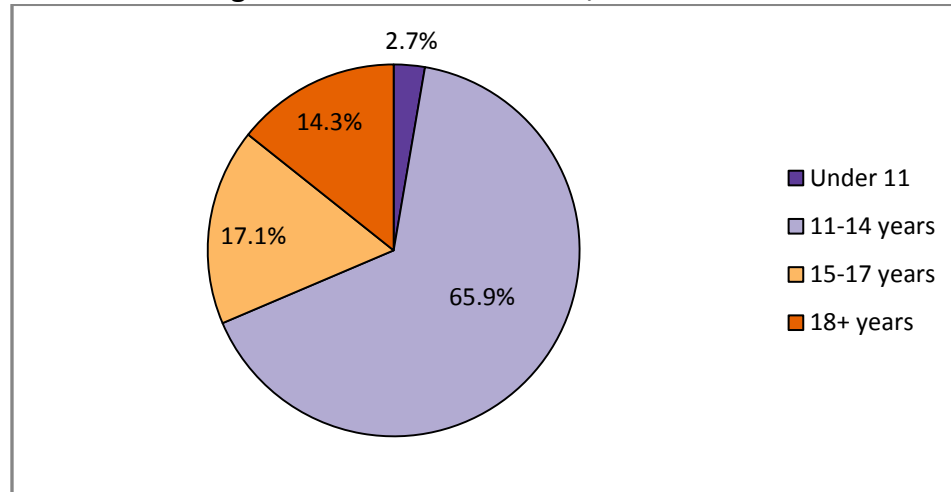


*data source Vermont Immunization Registry, 1/9/2017

Age of Initiation of HPV Immunization

The Centers for Disease Control and Prevention (CDC) recommends HPV vaccination for boys and girls beginning at age 11, though the vaccine is approved as early as age 9.³ HPV vaccine has been shown to produce a stronger immune response in preteens.⁴ For HPV vaccines to be effective, they should be given prior to exposure to the virus. In 2016, over two-thirds of Vermonters who received their first dose of HPV vaccine were under the age of 15 at the time. Under the new guidance, these adolescents would only need one more vaccination, reducing healthcare costs and trips to the doctor's office.

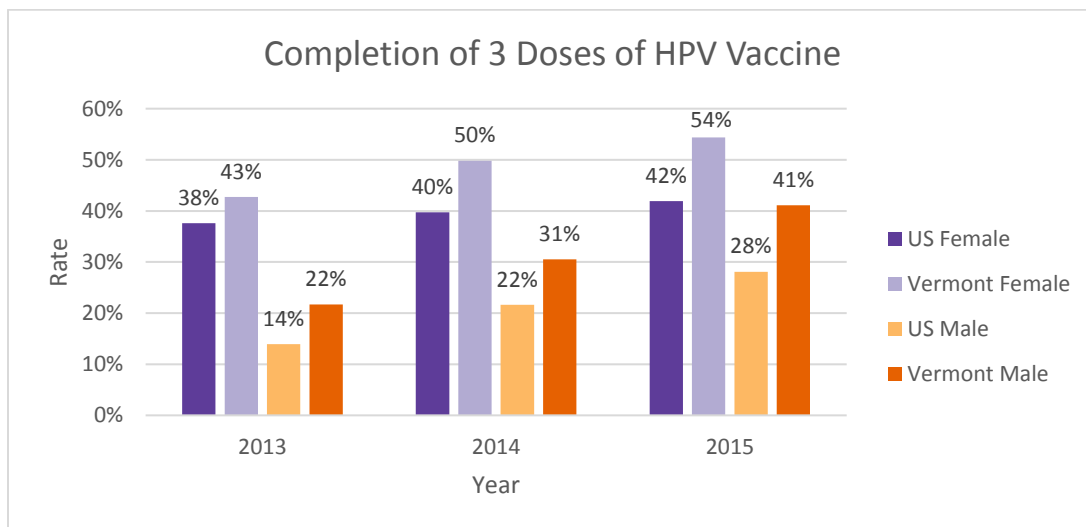
Age of First HPV Vaccination, 2016



*data source Vermont Immunization Registry, 1/9/2017

National Immunization Survey (NIS)

The NIS is a nationwide survey conducted annually to monitor immunization coverage. The NIS-Teen survey collects information about individuals ages 13-17. Vermont has been consistently ahead of the national HPV vaccination level. However, more than half of Vermont teens have not received the full series.



*data source National Immunization Survey

For more information, please contact Bridget Ahrens, Immunization Registry Manager, (802) 951-4094.

¹ Human papillomavirus and HPV vaccines: a review, <http://www.who.int/bulletin/volumes/85/9/06-038414/en/>

² FDA Approves New Indication for Gardasil to Prevent Genital Warts in Men and Boys, <http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm187003.htm>

³ CDC recommends only two HPV shots for younger adolescents, <https://www.cdc.gov/media/releases/2016/p1020-hpv-shots.html>

⁴ HPV Vaccine - Questions & Answers, <http://www.cdc.gov/vaccines/vpd-vac/hpv/vac-faqs.htm>