

The HPV vaccine

**Question and answers for parents
of all young people aged 12-13**



Public Health
Agency

This Q&A on the Human Papillomavirus (HPV) vaccine supports the leaflet that your child should have been given at school.

Since 2019 the HPV vaccine has been offered to all 12-13 year olds.

Please read this information and then fill in the consent form that came with the booklet and return it to school.

Summary

This information is intended to answer the common questions you may have about the HPV vaccine that will protect your child against HPV infection and associated cancers, including up to 90% of cervical cancers (in women) and cancers of the mouth, throat, anus and genitals. It will also tell you where you can find more information if you need it.

There are usually no symptoms of HPV infection, so many people won't realise they are infected. Most of the time, the virus does not cause cancer because it is killed off by the body's immune system, but not always – some infections persist and lead to cancer or genital warts – this is why the vaccine is so important.

Since 2008, the HPV vaccine has been offered to all 12-13 year old girls in school years 9 and 10. From September 2019 the vaccine has also been offered to boys in the same way. This is because the evidence is clear that the HPV vaccine helps protect all young people from HPV-related cancers.

If your child doesn't get the vaccine in Year 9, they will be offered it again when the school nursing team next visits the school. More information can be found at pha.site/hpv

How does HPV cause cancer?

Anyone can become infected with the HPV virus. It is spread from one person to another during sexual activity (not necessarily sexual intercourse). There are over 100 types of HPV but only a small number of these are known to cause HPV-related cancers.

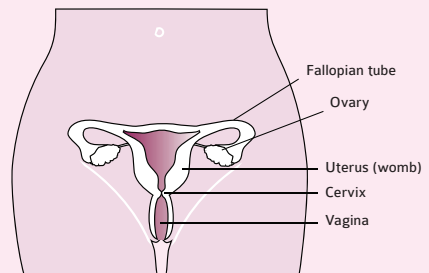
The virus gets into the surface cells of the mouth and throat, vagina, vulva, cervix, penis and anus, where it can stay for several years without causing any harm. Then, for reasons not yet understood, it may start to cause damage to these cells, which can lead to cancer over time.

The most commonly seen HPV-related cancer is cervical cancer in women, with studies showing that the HPV virus is detectable in more than 99% of these cancers. Recent evidence shows that there is also a link between HPV infection and less common cancers of the vulva, vagina, penis, anus, and some cancers of the mouth and throat.

Cervical cancer

Cervical cancer affects the cervix – the entrance to the womb (see diagram). There are 13 HPV types that are known to cause cervical cancer and just two – types 16 and 18 – cause 7 out of 10 of the cases.

Each year in Northern Ireland there are around 81 cases of cervical cancer and an average of 20 women die from the disease. In addition, an average of 1,125 cases of cervical cancer in-situ are diagnosed each year. This is where some cells of the cervix have pre-cancerous changes, and equates to a 1 in 10 likelihood of women being diagnosed with cancerous changes in the cervix. If they are left untreated, cancer can develop and may lead to serious illness and death.



Other HPV cancers

Studies now show that HPV types 16 and 18 are also strongly linked to other cancers. Anal and genital cancers, although not as common as cervical cancer, are strongly linked to HPV including more than 80% of all anal cancers.

Cancers of the mouth and throat, such as the tongue, tonsils, throat and voice box are also linked to HPV.

How does the HPV vaccine work?

The HPV vaccine protects against several types of HPV infection, including types 16 and 18, which are the two most common types causing cervical and other cancers.

It is given in the same way as other common vaccines as an injection in the upper arm. The body reacts by making antibodies that will help the immune system fight HPV infection. The vaccine cannot cause HPV infection or cancer.

Why is the vaccine being routinely offered to all young people aged 12-13 years?

The HPV vaccine is now offered to all 12–13 year olds to protect against several HPV types, including 16 and 18. Types 16 and 18 are the two most common types linked to HPV-related cancers. The evidence is clear that the HPV vaccine helps protect against HPV-related cancers.

HPV is very common and is easily spread through sexual activity. Although it is very unlikely that your child is at risk of HPV infection at this age, as most are not sexually active until they are much older, it is recommended that they have the vaccine now because studies show that protection from the vaccine is better when it is given at an earlier age.

Does the vaccine protect against other sexually transmitted infections?

The vaccine will also protect against other types of HPV that cause the majority of cases of genital warts. It won't protect against any other sexually transmitted infections such as chlamydia and it won't prevent pregnancy. It is therefore still very important that your child gets safer sex messages at the appropriate time.

Does this mean my daughter will be protected against all cervical cancers?

The vaccine used in Northern Ireland (Gardasil® 9) will protect against nine types of virus that cause up to 90% of all cervical cancers. The vaccine won't protect against any of the remaining cervical cancer-causing types.

This is why it is vital to go for routine cervical screening (smear tests) when invited (from age 25), even after receiving the vaccine. The purpose of cervical screening is to detect early precancerous changes in the cervix that cause no symptoms but go on to develop into cancer. If changes are detected early enough they can be treated to prevent cervical cancer developing. The vaccine is having a major impact on HPV infections in the UK and will save hundreds of lives every year. A recent study in Scotland shows that no cervical cancer cases have been detected in women who got their HPV vaccine when they were 12-13 years old when the programme was first introduced in 2008. It shows how effective the HPV vaccine is.



Will my child now be protected against all other cancers?

The vaccine will protect against the two main virus types (types 16 and 18) that cause some cancers of the vulva, vagina, penis, anus, mouth and throat. It is important to note that the vaccine won't protect against all of these types of cancers. There are currently no screening programmes for other HPV-related cancers. If you are worried about any symptoms contact your GP.

How long does the vaccine protection last for?

Studies have shown that vaccinated people maintain high levels of protection for at least 12 years, with no evidence of protection decreasing. Data from clinical trials and ongoing research tell us that the protection provided by HPV vaccine will provide lifetime protection from these viruses because the immune system develops antibodies to the virus after the vaccination. No boosters are required at present.

Is the vaccine safe?

Yes. For more than 10 years the safety of the HPV vaccine has been strictly monitored and frequently reviewed by many international bodies including:

- The Medicines and Healthcare products Regulatory Agency (MHRA);
- the European Medicines Agency (EMA);
- the World Health Organization (WHO) Global Advisory Committee on Vaccine Safety (GACVS).

These international bodies have continually reported that the vaccine is safe with no known long-term side effects. More than 280 million doses of the HPV vaccine have been given worldwide, including 120 million doses in the US and over 10 million in the UK. As part of the global strategy to accelerate the elimination of cervical cancer, the WHO advises that 140 countries are using the HPV vaccine around the world (2023).

"The World Health Organization strongly recommends HPV vaccine to prevent cervical cancer."

Robb Butler, Head of Immunisation, World Health Organization, Europe

When will my child have the vaccination?

You should have received a consent form along with this booklet. It is important that the consent form is signed and returned to the school promptly. Your child will be offered the HPV vaccine during the current academic year in Year 9. If they miss the vaccine in Year 9, the school nursing team will offer it again during their next visit to the school. Those over 16 years of age are presumed to be capable of self-consenting unless there are specific reasons otherwise.

How will the vaccine be given?

The school nursing team from your local Health and Social Care Trust (HSCT) will give the vaccine. The person giving the vaccination will be fully qualified to do it and will know how to deal with any problems that may arise. The vaccine will be given in the upper arm by a nurse. Most people will only require one dose of the vaccine to give protection. This dose will usually be given in Year 9.

Will our GP know that my child has had the HPV vaccination?

Information about the HPV vaccination will be transferred to your GP's surgery so it can be entered on your child's health record.



Will there be any side effects?

The side effects are generally mild – mostly soreness, swelling and redness where the injection is generally given in the arm, which soon wears off. Other less common side effects may include headache, nausea, dizziness and/or mild fever. Occasionally, individuals may faint after getting an injection. They are advised to sit down for 10-15 minutes after the vaccination. This helps prevent fainting.

Very rarely, some people have an allergic reaction soon after immunisation. This reaction may be a rash or itching affecting part or all of the body. The nurse will know how to treat this. It is not a reason to avoid vaccinations.

Even more rarely, people can have a severe reaction within a few minutes of the injection with breathing difficulties and collapse. This is called an anaphylactic reaction. It is extremely rare and the nurse is trained to deal with it.

Individuals recover completely with treatment, usually within a few hours. If you would like more information about the vaccine, the Patient Information Leaflet for Gardasil® 9 can be found at:
www.medicines.org.uk/emc

Type “Gardasil 9” into the search box.

Parents can report suspected side effects of vaccines through the Yellow Card Scheme. This can be done online by visiting <https://yellowcard.mhra.gov.uk> or calling 0800 731 6789 (9.00am to 5.00pm Monday-Friday).



What about people who have allergies or other medical conditions, can they still have the HPV vaccination?

Yes. Food intolerances, asthma, eczema, hay fever, and allergies generally do not prevent someone from having this vaccine. If you have any concerns about this, speak to the school nursing team or your GP before your child has the vaccine.

Will the vaccine affect any other medication?

There is no evidence that the vaccine reduces the effectiveness of any medication.

What if my child is off school ill on the day of the vaccination?

The school nursing team will arrange for the vaccine to be offered at another time.



What if my child has already been sexually active?

If an individual has been sexually active, there is a possibility that they may have already caught HPV. However, as it won't be known which type of the virus they may be infected with, they should still have the vaccine as it may still give protection.

What do I do if I think my daughter is pregnant?

There is no known risk associated with giving the HPV vaccine during pregnancy. However, as a matter of precaution, the HPV vaccine is not recommended in pregnancy. This is not because of any specific safety concerns with giving the HPV vaccine during pregnancy but because there is limited information on using the vaccine during pregnancy. If your daughter finds out she is pregnant soon after she has been given the HPV vaccine, this should be discussed with her GP.

What if my child doesn't want to have the vaccination?

The HPV vaccine is recommended for the reasons given above and will offer protection for many years into the future. However, if your child is really sure that they do not want to receive it they don't have to but they may want to talk about it with a health professional before deciding. For more information, they should speak to the school nursing team – on their own, or with you, if they would prefer.

What if my child wants the vaccination but, as parents, we would rather they didn't have it?

The HPV vaccine is recommended for the reasons given above and will offer protection for many years into the future. It is important for your child's future to appreciate that having the vaccination now will protect them from certain cancers associated with the HPV infection for many years to come. You should discuss this with your child and the school nursing team to get more information. It is important to note though that the decision is legally your child's as long as they understand the issues in giving consent.



For more information, scan the QR code or
visit pha.site/hpv



For the leaflet in another language, scan the QR code or
visit pha.site/HPVvaccination



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