

# HPV VACCINATION IN SANDYFORD SERVICES

## What's New

From September 2022 UK JCVI advice is to move to one dose of vaccine to be offered to MSM before their 25<sup>th</sup> birthday and a 2 dose schedule for MSM between 25- 45 years old

A **3-dose schedule** should be offered to those **known to be living with HIV** or who are **immunocompromised**

During 2022 Gardasil will be replaced by Gardasil-9

As these changes are yet to be fully implemented, national information leaflets and the Green Book may **not be consistent**

1. **General information on HPV Vaccination**
2. **HPV vaccination in young people**
3. **HPV vaccination in MSM**

## 1. **General information**

### **General Information for clinicians and clients**

- HPV infections are spread primarily by sexual contact with an infected partner, affecting the skin and mucosa of respiratory and anogenital tracts
- The majority of HPV infections are asymptomatic and infection is usually cleared without the need for treatment. Persistent infection with high risk HPV types such as types 16 and 18 can lead to cancer – most notably cancer of the cervix, anus, throat and penis. HPV 6 and 11 cause 90% of all genital warts.

### **Vaccine-Information**

- Gardasil® is the recommended vaccine and provides protection against nine HPV strains: HPV types 6, 11, 16, 18, 31, 33, 45, 52 and 58
- Vaccine is made from virus-like particles (VLPs) that are not infectious and cannot cause HPV-associated cancers or genital warts as they do not contain the virus's DNA. VLPs are very immunogenic and induce high levels of antibody production by the body.
- Prior infection with one HPV type does not diminish the efficacy of the vaccine against other HPV types included in the vaccine.

- HPV vaccines have not been shown to have an impact on an existing infection but may boost immunity and prevent re-infection or reduce reoccurrences.
- The most common adverse reactions are injection-site reactions (77.1%). Others include headache, myalgia, fatigue, and low grade fever.
- Gardasil® is an inactivated vaccine and will not be affected by, nor interfere with other inactivated or live vaccines.

### **Contraindications**

- Confirmed anaphylactic response to a previous dose or any component of the vaccine.
- Defer vaccination if recipient has fever or is acutely unwell.

### **Administration**

- During storage a white precipitate may develop and the vaccines should be shaken before use to form a white milky cloud.
- Vaccines are given by intramuscular injection into deltoid muscle.
- Anaphylaxis is possible but extremely rare.

## **2. HPV Vaccination - Vulnerable young people**

### **Background**

Since September 2019, the HPV vaccine has been offered to girls and boys in first year of secondary school as part of the routine school-based programme. This follows the Scottish Government announcement in July 2018 to include HPV vaccination to boys in the national vaccination programme on the advice of the Joint Committee of Vaccination and Immunisation (JCV). From September 2022 dosing schedule changed to 1 dose unless immunosuppressed).

Sandyford can provide vaccination to vulnerable young people identified at the time of consultation as being eligible to receive the vaccine but who are unable to access vaccine through the school program. An 'Unscheduled Form' should be completed for all these cases (see below).

### **Inclusion Criteria**

- Vulnerable young people aged 12 to 25 years presenting to Sandyford services who are or have been excluded from school; or have never attended school and therefore have been unable to access the school vaccine program. Those in eligible cohorts for vaccination in the national programme will remain eligible, and may be offered HPV vaccination opportunistically, up to their 25th birthday.
- Note boys should only be included in this if they were born after 2008 and have missed the school vaccination programme

### Exclusion criteria

- Females aged 25 years and over
- Boys born prior to 2008.
- Pregnancy (limited data)

### Dosage & schedule

**Gardasil 0.5ml IM on initial day of attendance**

People known to be living with HIV should have a 3-dose course due to lack of clinical evidence of efficacy in this group for the 1-dose schedule. This is: day of attendance, 1 month and 4 months

### Record Keeping / Documentation

- Provide client with a Patient Information Leaflet and offer HPV vaccination
- If client declines vaccination, record on NaSH (see Appendix 1)
- If client accepts vaccination:
  - Prescribe and record on NaSH that vaccination commenced
  - Provide HPV vaccination card
  - Make appointments for subsequent vaccinations
  - Set up SMS recall for subsequent vaccinations in Special Forms - patient actions and recalls (see Appendix 2).

An 'Unscheduled Form' should be completed and returned to:  
Screening Department, 1<sup>st</sup> Floor, Building 2, Templeton Business Centre, 62 Templeton Street, Glasgow, G40 1DA for every HPV vaccine administered.

Forms are available in Public Folders at [\\Fileserver3\public\\_folders\01 Protocols, Policies and Guidelines\Guidelines](\\Fileserver3\public_folders\01 Protocols, Policies and Guidelines\Guidelines).

It is possible to confirm the vaccine status of any client presenting by contacting the School Health System Team during office hours:

Child Health Team for School  
Templeton Business Centre  
62 Templeton Street  
Glasgow  
G40 1DA

Tel. 0141 277 7642

### 3.HPV vaccination: MSM

From July 2017, the HPV vaccine has been offered opportunistically at Sandyford (central and hubs) to men who have sex with men (MSM) up to and including 45 years of age

#### Why MSM?

- In all men 80-85% of anal cancers, 30-70% of oro-pharyngeal cancer and 50% of penile cancers are associated with HPV infection.
- MSM bear a significantly increased burden of HPV related disease compared to heterosexual men. HPV type 16-associated anal cancers in particular are far more common in MSM.
- Men aged 46 and above are not offered HPV vaccination as research/review has shown the HPV vaccination to have a health benefit and be cost effective to MSM up to the age of 40 this has been extrapolated to the age of 45 but not beyond this.
- The current HPV vaccine programme for girls induces herd protection, which provides substantial protection to heterosexual boys and men.

#### What Schedule to use?

- **HIV Negative, Aged 15-24 and not immunosuppressed**
  - One dose
- **HIV Negative 25-45 and not immunosuppressed**
  - Two-dose course is needed for protection with at least six months between doses
  - Those who had interruptions to their course prior to April 2022 and have had two doses with at least six months between them do **not** require a third dose
- **People Living with HIV or are immunosuppressed**
  - Three dose course
  - The second dose should be administered at least 1 month after initial dose and the third dose administered at least 4 months after the first dose, ideally completed within 12 months. If the vaccine course is interrupted, it should be resumed but not repeated.

**What to do when an MSM 45 years or under attends Sandyford**

- Provide client with a Patient Information Leaflet and offer HPV vaccination
- If client declines vaccination, record on NaSH (see Appendix 1)
- If client accepts vaccination:
  - Prescribe and record on NaSH that vaccination commenced
  - provide HPV vaccination card
  - make appointment for further vaccines if needed
  - SMS recalls for vaccinations in Special Forms can be set up to remind patients -patient actions and recalls (see Appendix 2).

**References**

[Eligible groups - HPV immunisation - HPV immunisations - Immunisations by vaccine - Immunisations - Our areas of work - Public Health Scotland](#) (accessed online March 2023)

[www.gov.uk/government/publications/human-papillomavirus-hpv-the-green-book-chapter-18a](http://www.gov.uk/government/publications/human-papillomavirus-hpv-the-green-book-chapter-18a) (accessed online March 2023)

[www.nhsinform.scot/healthy-living/immunisation/vaccines/hpv-vaccine-for-men-who-have-sex-with-men-msm](http://www.nhsinform.scot/healthy-living/immunisation/vaccines/hpv-vaccine-for-men-who-have-sex-with-men-msm) (accessed online March 2023)

CMO letter Human papillomavirus (HPV) vaccination programme: change in schedule from 2 to 1 doses for eligible adolescents and adults up to age 25 years [http://www.sehd.scot.nhs.uk/cmo/CMO\(2022\)35.pdf](http://www.sehd.scot.nhs.uk/cmo/CMO(2022)35.pdf) (accessed online March 2023)

**Appendix 1. Recording of HPV Vaccination.**

The screenshot shows the 'Special Forms' section of a medical software interface. The left-hand navigation menu includes categories like 'al', 'de', 'al and Family History', 'e Sexual History', 'Borne Virus Issues', 'uctive Health and Con', 'History', 'Request and Results s', 'atient Microscopy Det', 'atient Test Details', 't Actions and Recall S', 'ription History', and 'Sender'. The main form area contains several fields: 'Hepatitis B Test Status' (dropdown), 'Hepatitis C Test Status' (dropdown), 'Testing History Notes' (text area), 'Vaccination History' (dropdown), 'Hepatitis B Vaccination' (dropdown), 'Vaccination History Notes' (text area), 'HPV Vaccination Status Prior To Attendance' (dropdown menu with options: Never Immunised, Immunisation Complete, Immunisation In Progress, Immunisation Lapsed, Immunisation Declined, Not Known), and 'Date Immunisation Commenced' (calendar field set to 03/05/2017). At the bottom right, there are buttons for 'Episode' and 'Social History'.

**Appendix 2. SMS reminder – Patient Action and Recall**

This screenshot shows a 'Recall' action being recorded in the 'Special Forms' section. The patient information at the top includes 'DUNDEE, Croc 3 (Ms)', 'Born 21-Apr-1996 (21y)', 'Sex Female', and 'NaSH Number AN01183675'. The 'Reason' is 'Vaccination follow-up' and the 'Sub-Reason' is 'Requires vaccination'. The 'Infection Type' dropdown is open, showing options like 'Abnormal', 'POSITIVE', 'Negative', 'Invalid', 'Unconfirmed', 'No result', 'Syphilis', 'Gonorrhoea', 'HIV', 'Hepatitis B', 'Hepatitis C', 'Trichomonas', and 'Other (Specify)'. The 'Action Required' is set to 'Recall'. The 'Date Required By' is 25/11/2017 and the 'Date Closed' is 25/07/2017. Below the form, there is a 'Recall Detail' table with columns for 'Attempt', 'Recall Method', 'Recall Outcome', 'Recall Closed by', and 'Recall Close'. The table is currently empty. The interface is signed by 'Martin Murchie' and shows the last modified date as 25/07/2017 09:34.