DST-1009 Genital Warts

#### **DST-1009 Genital Warts**

#### **DEFINITION**

Genitals warts refer to skin or mucosal infection caused by the genotypes of human papillomavirus (HPV). HPV is readily transmissible and one of the most common STIs worldwide. The estimated lifetime likelihood of HPV infection is upwards of 75%.

There are over 40 types of HPV known to reside in the anogenital tract, oral cavity and oropharynx. Persistent infection with one or more of the high-risk HPV types (e.g., HPV-16, -18) may lead to precancerous or cancerous lesions of the cervix, vulva, vagina, penis, anus, oral cavity, oropharynx and larynx. Infection with low risk HPV types (e.g., HPV-6, -11) is associated with low or no cancer risk, rather can lead to anogenital warts or other benign lesions (e.g., low-grade squamous intraepithelial lesion [LSIL] of the cervix or anal canal).

#### **CAUSE**

Viral: human papillomavirus (HPV)

#### PREDISPOSING RISK FACTORS

- sexual contact where there is transmission through skin-to-skin with an individual who has HPV infection
- immunosuppression (e.g., HIV infection, organ transplant and immunosuppressive drug therapy)

#### TYPICAL FINDINGS

#### **Sexual Health History**

- change in the affected area from "normal" to a wart-like or bumpy appearance
- · sexual contact with at least one partner
- may report either current or past partner as having HPV infection presently or in the past, though often there is no reported/known history
- may describe bumps that are painless
- may report itching/irritation to affected area (particularly when perianal warts are present)

#### **Physical Assessment**

- usually painless
- may cause bleeding and pruritus (perianal)
- may appear on the genitals and perineum in clusters or as single bumps as:
  - o flat
  - o cauliflower-like
  - flesh-coloured
  - o darker in colour than surrounding skin

Note: Most anogenital HPV infections are asymptomatic and/or subclinical.

#### **DIAGNOSTIC TESTS**

Full STI screening is recommended upon initial assessment for genital warts to rule-out other STI presentations such as syphilis (e.g., condylomata lata looks very similar to genital warts).

- diagnosis is confirmed through clinical findings from visual inspection
- routine diagnostic testing for genital HPV is not currently available
- routine Pap testing as per British Columbia Cancer Agency's Screening for Cancer of the Cervix guidelines
  - o the presence of genital warts is not an indication for a change in routine Pap screening recommendations

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#### CLINICAL EVALUATION/CLINICAL JUDGMENT

- when clinical findings of HPV are evident, review all treatment options with client
- treatment of internal warts (e.g., intravaginal, cervical, and rectal) requires referral to a physician or NP

#### MANAGEMENT AND INTERVENTIONS

#### **Goals of Treatment**

- mainly aesthetic, to remove visible warts
- reduce the spread of infection

#### TREATMENT OF CHOICE

Review anogenital wart treatment options with the client, including benefits and risks of each. The treatment of anogenital warts are carried out by RN(C)s according to the *BCCNP Standard for Acting Within Autonomous Practice*. For use of alternate cryotherapeutic agents, follow agency-specific guidelines and policies.

The treatment options are:

- defer treatment and monitor many genital warts will resolve spontaneously
- client-applied: These options can be expensive. Consultation and/or referral to a physician or NP is required to obtain a
  prescription for:
  - o imiquimod 5% or 3.75% cream
  - o podofilox 0.5% solution
  - sinecatechins 10% ointment
- provider-applied:
  - o **First Choice:** Cryotherapy with liquid nitrogen (preferred) or alternate cryotherapy regimens approved for the treatment of genital warts (e.g., dimethyl ether propane (Histofreezer®, see package insert for treatment details)
  - Alternate Treatment:
  - podophyllin 10% tincture or 25% resin
  - trichloracetic acid (TCA)

#### First Choice: Cryotherapy with liquid nitrogen

**Note:** Over-the-counter (OTC) cryotherapeutic remedies for wart treatment are not recommended for the treatment of genital warts. Clinical diagnosis is required prior to treatment recommendation.

#### Method of Use

- 1. Apply using spray canister. Adjust lighting and use magnification as needed.
- 2. Stretch the area to be sprayed. Hold the spray nozzle approximately 1 cm away from the skin. Distance may vary slightly dependent on amount of freezing required.
- 3. Spray intermittently to create and maintain a whitish frozen area involving the wart, with a halo of 1-2 mm around the wart. Freezing should be maintained for 5-10 seconds post-application.
- 4. Allow for the skin to thaw. This occurs when the frozen whitish area returns to normal colour (may be slightly reddened).
- 5. Repeat steps 2 to 4 for 2-3 treatment cycles total for each wart.
- 6. Treatment is repeated every 7 to 14 days for 6 to 8 treatment visits. Ensure previously treated areas are completely healed prior to subsequent treatment.
- 7. If warts have not resolved by the 8<sup>th</sup> treatment session, consult/refer with a physician or NP to determine next steps.

#### **Alternate Treatments**

Podophyllin 10% or 25%

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## For use only in the absence of other treatment options given concerns about local and systemic safety, and low efficacy.

#### DO NOT USE podophyllin:

- o in pregnancy
- o for the treatment of any internal warts cervical, meatal, vaginal, or anal. Podophyllin may be used around, but not in the meatus, around the introitus, but not in the vagina or on the cervix, and around, but not in the anus
- o on open sores or excoriated skin
- o n clients who have diabetes

#### **Method of Use**

- 1. Measure out 0.5 ml podophyllin using syringe/needle.
- 2. Dab podophyllin on warts with cotton swab limit the area of application to < 5cm². The dose per visit is should not exceed 1.0 mL.
- 3. Allow the area to fully dry prior to the client dressing after treatment.
- 4. Remind the client to wash off the first application (first-time treatment) in 1 hour; and if there is no adverse reaction then wash off subsequent applications in 4-6 hours.
- 5. Podophyllin application may be repeated at seven-day (weekly) intervals for up to 6 treatment sessions.
- 6. If warts have not resolved after 6 treatment sessions, consult/refer with a physician or NP to determine next steps.

#### **Notes:**

- 1. Side effects of treatment may include mild to moderate local skin reactions which may include discomfort, tenderness, stinging or pain at the site. Blistering, erythema and itching may also occur. Reactions are managed by decreasing the intensity of future treatments.
- 2. If there is no improvement in the warts after 3 provider-applied treatment sessions, consider adding additional treatment options (e.g., cryotherapy first, then apply podophyllin).

#### Trichloracetic acid (TCA)

#### DO NOT USE TCA:

- o for the treatment of any internal warts cervical, meatal, vaginal, or anal
- o on open sores or excoriated skin

#### **Method of Use**

- 1. Measure out small amount using syringe/needle.
- 2. Apply petroleum jelly or 2% xylocaine ointment to the surrounding area to protect healthy skin.
- 3. Use a cotton swab to dab the acid preparation on. Apply sparingly.
- 4. Allow area to dry until a "white frosting" appearance is noted. Do not need to wash off.
- 5. Can be used weekly for up to 6-8 weeks.

#### Notes:

- 1. TCA is a highly caustic solution that can cause blistering and ulcerations if used in excess. The viscosity is lower than water and can spread very quickly.
- 2. If painful, soap or sodium bicarbonate can be used to neutralize the area. Powder the area with talc or sodium bicarbonate or apply soap to any un-reacted acid.

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#### PREGNANT OR BREAST/CHEST-FEEDING CLIENTS

For all pregnant or breast-/chest-feeding clients consult with or refer to a physician or NP. Podophyllin is contraindicated in pregnancy.

#### PARTNER COUNSELLING AND REFERRAL

Counsel clients to recommend their sexual partners have an examination for genital warts.

#### **MONITORING AND FOLLOW-UP**

Refer to specific treatment section in this DST for monitoring and follow-up recommendations.

#### POTENTIAL COMPLICATIONS

- pre-cancerous or cancerous lesions from co-infection with specific HPV subtypes
- · overgrowth of external warts in immunocompromised individuals
- · perinatal transmission (rare)
- · recurrent episodes of growth after treatment

#### **CLIENT EDUCATION**

Counsel client regarding:

- genital warts are common and the likelihood of genital infection with HPV, over the lifespan, is upwards of 75%.
- routine Pap testing is recommended, and clinical findings of genital warts is not an indication for a change in the frequency of Pap testing.
- eligibility for a HPV vaccine which can protect against some strains of HPV.
- external visible warts are generally not associated with cancers of the cervix, anus, or genitals, as they are considered low-risk and are usually benign.
- warts often resolve on their own within 18-24 months even without treatment.
- that while most genital HPV infections resolve, whether or not HPV infection itself completely clears after visible warts have resolved, is unknown. Diagnostic testing to determine clearance is neither recommended nor routinely available.
- treatment is mainly aesthetic to remove visible warts; a small risk of recurrence remains.
- genital warts are sexually transmitted through skin—to-skin contact (condoms are helpful in reducing transmission when they cover the area of skin that is affected by HPV).
- HPV is transmissible though likely to a lesser degree even when visible warts are not present on the skin.
- Re-infection with the same strain is possible.
- if they are HIV positive, to follow-up with their HIV health care provider for potential further follow-up and/or screening (e.g., anal Paps).
- that it is possible and very common to have more than one strain of HPV.
- the fact that most people are asymptomatic and that partners who are both infected with HPV can have different clinical manifestations (e.g., one person may be asymptomatic while the other may experience visible affects such as warts).
- the side effects of treatment may include: mild to moderate local skin reactions which may include discomfort, tenderness, stinging or pain at the site. Blistering, erythema, itching and changes to skin pigmentation may also occur. Reactions are managed by decreasing the intensity of future treatments.
- avoiding irritants to the area, including shaving, which can promote the warts spreading.

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#### **CONSULTATION AND/OR REFERRAL**

Consult with or refer to a physician or NP in the following situations; clients who:

- have reached maximum treatment duration, administered as recommended without resolution of symptoms.
- are pregnant and/or breast-/chest-feeding.
- have warts that are atypical in appearance, are larger than 1-2 cm or have suspicious pigmentation.
- have internal genital warts (anal, vaginal, or urethral).
- have an unusual, unexpected or severe reaction to genital wart treatment.
- are unable to tolerate cryotherapy or other provider-applied treatment and require a prescription for client-applied treatment.
- have diabetes and opting for or require topical podophyllin treatment.

#### **DOCUMENTATION**

- HPV is not reportable
- · as per agency policy

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#### REFERENCES

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# **Decision Support Tools** for Registered Nurses

## **Reproductive Health: Sexually Transmitted Infections**

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