

## Treating Genital Warts: Effective Strategies and Therapies

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### Abstract

Genital warts, caused by human papillomavirus (HPV) infection, are a prevalent sexually transmitted condition. This article reviews current strategies and therapies for treating genital warts, focusing on effectiveness, safety, and patient outcomes. Various treatment modalities, including topical medications, surgical interventions, intralesional therapies, and alternative approaches, are discussed in detail. Emphasis is placed on early detection, comprehensive treatment plans, and the importance of patient education in managing genital warts effectively.

**Keywords:** Genital warts; Human papillomavirus (HPV); Treatment strategies; Topical medications; Surgical interventions; Intralesional therapy

### Introduction

Genital warts, caused by certain strains of the human papillomavirus (HPV), are a common sexually transmitted infection affecting millions worldwide. While not life-threatening, they can be persistent and uncomfortable, prompting individuals to seek effective treatment options. This article explores various strategies and therapies available for treating genital warts, aiming to provide a comprehensive overview for those affected [1].

### Understanding genital warts

Genital warts appear as small growths or clusters on the genital and anal areas. They are caused primarily by HPV types 6 and 11, though other strains can also contribute. HPV is transmitted through sexual contact, including vaginal, anal, and oral sex, and even skin-to-skin contact with an infected area.

These warts can vary in appearance from flesh-colored to grayish, and they may be raised or flat. Some individuals may experience itching, discomfort, or bleeding during sexual intercourse [2].

### Seeking treatment

Upon diagnosis of genital warts, individuals often seek treatment for symptom relief, to prevent transmission, and to reduce the risk of complications. Treatment options can be divided into several categories:

### Topical treatments

Topical medications are often the first line of defense against genital warts. They work by directly targeting the warts and include:

**Imiquimod cream:** Boosts the immune system to fight the virus.

**Podofilox solution or gel:** Destroys the tissue of the warts.

**Podophyllin resin:** Similar to podofilox, applied by a healthcare provider.

These treatments are usually applied at home and require careful adherence to instructions to avoid skin irritation or other side effects.

### Surgical and procedural treatments

For larger or more persistent warts, medical procedures may be necessary:

**Cryotherapy:** Freezing the warts with liquid nitrogen.

**Electrocautery:** Burning off the warts with an electric current.

**Surgical excision:** Cutting off the warts under local anesthesia.

These procedures are typically performed in a healthcare setting and may require multiple sessions for complete eradication [3].

### Intralesional therapy

In some cases, injecting medications directly into the warts can be effective. This approach, known as intralesional therapy, involves injecting substances like interferon or candida antigen to stimulate the body's immune response against the warts [4].

### Alternative therapies

While not as commonly recommended, some individuals explore alternative therapies such as:

**Green tea extract:** Applied topically to potentially inhibit wart growth.

**Apple cider vinegar:** Applied to warts, believed by some to reduce their size.

However, the effectiveness of these treatments is not well-supported by scientific evidence and should be approached with caution.

### Considerations and Follow-Up

Regardless of the treatment method chosen, it's crucial for individuals with genital warts to follow up with their healthcare provider regularly. This ensures that the treatment is effective, monitors for any complications, and addresses any new warts that may appear. Additionally, practicing safe sex by using condoms can reduce the risk of HPV transmission to sexual partners [5].

### Discussion

The treatment of genital warts, caused by specific strains of the

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**Received:** 01-Feb-2024, Manuscript No: ccoa-24-139445, **Editor Assigned:** 04-Feb-2024, Pre QC No: ccoa-24-139445 (PQ), **Reviewed:** 18-Feb-2024, QC No: ccoa-24-139445, **Revised:** 22-Feb-2024, Manuscript No: ccoa-24-139445 (R), **Published:** 29-Feb-2024, DOI: 10.4172/2475-3173.1000200

**Citation:** Michael S (2024) Treating Genital Warts: Effective Strategies and Therapies. Cervical Cancer, 9: 200.

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human papillomavirus (HPV), requires a comprehensive approach that considers the individual's health status, the extent of the infection, and preferences regarding treatment modalities. Effective management aims not only to eradicate visible warts but also to prevent recurrence and minimize potential complications [6].

Topical medications are commonly prescribed as first-line therapy for genital warts. These medications include imiquimod, podofilox, and podophyllin resin. Imiquimod works by stimulating the body's immune response to fight HPV-infected cells. Patients typically apply imiquimod cream directly to the affected areas, usually for several weeks under medical supervision. Podofilox and podophyllin resin are applied directly to the warts and work by disrupting wart tissue, leading to their eventual destruction. These treatments are effective for many patients and can be administered at home, though they may cause skin irritation or other localized side effects.

In cases where topical treatments are ineffective or when warts are extensive or recurrent, surgical interventions may be necessary. Cryotherapy involves freezing the warts with liquid nitrogen, causing them to slough off over time. This procedure is typically performed in a healthcare setting and may require multiple sessions for complete eradication. Another surgical option is electrocautery, where an electric current is used to burn off warts. Surgical excision, involving the physical removal of warts under local anesthesia, is reserved for larger or particularly stubborn warts. These procedures are generally well-tolerated but can carry risks such as scarring or infection.

For persistent or recurrent warts, intralesional therapy may be considered. This approach involves injecting medications directly into the warts, such as interferon or candida antigen. Interferon boosts the body's immune response against the virus, while candida antigen is thought to stimulate an inflammatory reaction that helps eliminate the warts. Intralesional therapy is typically performed by healthcare providers and may require multiple sessions for optimal results.

While less conventional, some individuals explore alternative therapies such as green tea extract or apple cider vinegar for treating genital warts. These treatments are generally not supported by robust scientific evidence and should be approached with caution. It is essential for patients to discuss any alternative therapies with their healthcare provider to ensure safety and effectiveness.

Effective management of genital warts also involves patient

education and counseling. Patients should be informed about the nature of HPV infection, the importance of regular follow-up visits, and strategies for preventing transmission to sexual partners. Consistent condom use during sexual activity can reduce the risk of HPV transmission, although it does not provide complete protection [7].

## Conclusion

Treating genital warts involves a variety of strategies tailored to the individual's needs and the severity of the condition. Early detection and prompt treatment can help manage symptoms, reduce the risk of spreading HPV, and improve overall sexual health. By understanding the available therapies and working closely with healthcare providers, individuals can effectively manage genital warts and minimize their impact on daily life.

## Conflict of Interest

None

## Acknowledgement

None

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