



**HydroVANTAGE™**

The power of choice.

Dip into something more  
**current.**

 **Coloplast**

## HydroVANTAGE™

*The power of choice.*

The microbial environment and its infectious agents are constantly evolving – *shouldn't your infection prevention practices do the same?*

The Coloplast Titan® Inflatable Penile Prosthesis and Genesis® Malleable Prosthesis are coated with HydroVANTAGE™ hydrophilic coating.

HydroVANTAGE provides physicians with *The Power of Choice* in their aqueous solution, meaning your dips can be both customized and optimized to best serve the evolving needs of your patients and environment. The Coloplast Titan® and Genesis® malleable are the only FDA approved penile implants with hydrophilic coating.



Effectively preventing infections, begins with understanding what infectious agents are most prevalent and what antibiotics they may be resistant or susceptible to in your local area. An antibiogram can help! An antibiogram is a summary of antimicrobial susceptibilities of local bacteria. Antibiograms can be used by clinicians to assess and select appropriate antibiotic therapy. Consider contacting your facility's lab to request an antibiogram to get the most accurate reading for your facility.

For a quick overview of antibiotic resistant superbugs in your area, visit [resistanceopen.org](https://resistanceopen.org) or scan the QR Code.



# *Infection*

is the most dreaded complication of penile prosthetics, as it almost always results in removing the full implant.

Therefore, a surgeon must be diligent about the threat of infection before, during, and after surgery.

– *Current Urology Reports*, 2019

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## A Surgeon's Guide to the Various Antibiotic Dips Available During Penile Prosthesis Implantation.<sup>1</sup>

Author	Anti-Infection Dips Studied
Li H 1998	Rifampin 40 mg/mL/minocycline 25 mg/mL Amikacin 30 mg/mL Vancomycin 60 mg/mL
Hellstrom 2003	Gentamicin 2mg/mL/bacitracin 100 U/mL
Dhabuwala 2004	Gentamicin 160 mg/L/vancomycin 1 mg/mL
Dhabuwala 2010	InhibiZone Rifampin 10 mg/mL/gentamycin 1 mg/mL/vancomycin 2 mg/mL Rifampin 10 mg/mL/gentamycin 1 mg/mL Rifampin 1 mg/mL/gentamycin 1 mg/mL/vancomycin 2 mg/mL Rifampin 1 mg/mL/gentamycin 1 mg/mL Rifampin 10 mg/mL Bacitracin 50 units/mL/gentamycin 1 mg/mL
Dhabuwala 2011	InhibiZone Trimethoprim/polymixin B ophthalmic solution Trimethoprim/sulfamethoxazole infusion solution Bacitracin Rifampicin/minocycline Rifampin/trimethoprim/sulfamethoxazole
Chanyi, RM 2018	Gentamycin 15 µg/mL Ampicillin 100 µg/mL Tetracycline 10 µg/mL Kanamycin 50 µg/mL Erythromycin 25 µg/mL Ciprofloxacin 10 µg/mL

Bacteria Studied	Pertinent Findings
<p>S. aureus S. epidermidis</p>	<p>Rifampin/minocycline larger ZOI than amikacin and vancomycin</p>
<p>S. aureus S. epidermidis E. coli P. aeruginosa</p>	<p>Gentamicin/bacitracin greater ZOI than saline against S. epidermidis</p>
<p>S. epidermidis</p>	<p>Gentamicin/vancomycin reduces S. epidermidis colony counts by 41%</p>
<p>S. epidermidis E. coli</p>	<p>The zone of inhibition produced by both R10/G1 and R1/G1 is the greatest and exceed that produced by InhibiZone by 40% to 56% for S. epidermidis and 33% for E. coli</p>
<p>S. epidermidis S. lugdunensis S. aureus Pseudomonas Enterococcus</p>	<p>All dips except bacitracin showed ZOI <math>\geq</math> InhibiZone for most organisms. Author recommends TMP/SMX due to ease of handling and broad spectrum</p>
<p>E. coli S. aureus S. epidermidis P. mirabilis</p>	<p>Ampicillin best for Gram-positive S. aureus and S. epidermidis while ciprofloxacin is best for Gram-negative E. coli and P. mirabilis</p>

### Titan® 3-Piece Inflatable Penile Implant with HydroVANTAGE™ Hydrophilic Coating

**Indications:** The Titan, Titan OTR and Titan Touch Inflatable Penile Prosthesis is indicated for male patients suffering from erectile dysfunction (impotence) who are candidates for implantation of a penile prosthesis.

**Contraindications:** The Titan, Titan OTR and Titan Touch Inflatable Penile Prosthesis is contraindicated in patients with an active infection present anywhere in the body, especially urinary tract or genital infection; with a documented sensitivity to silicone; with unresolved problems affecting urination, such as an elevated residual urine volume secondary to bladder outlet obstruction or neurogenic bladder; or, unwilling to undergo any further surgery for device revision.

**Warnings:** Implantation of the device may make latent natural erections, as well as other interventional treatment options, impossible. Men with diabetes or spinal cord injuries, as well as immunocompromised patients, may have an increased risk of infection associated with a prosthesis. Failure to evaluate and promptly treat erosion may result in a substantial worsening of the condition, leading to infection and loss of tissue. Implantation of a penile prosthesis may result in penile shortening, curvature or scarring. Pre-existing abdominal or penile scarring or contracture may make surgical implantation more complicated or impractical.

**Precautions:** Surgeons implanting penile prostheses should be familiar with the currently available techniques for measuring the patient, determining implant size, and performing the surgery. Removal of an implanted prosthesis without timely reimplantation of a new prosthesis may complicate subsequent reimplantation or may make it impossible.

**Potential Complications:** Potential complications include scrotal swelling, auto-inflation, discomfort, angulation/curvature, edema, device malfunction, chronic pain, difficulty with ejaculation, transient urinary retention.

The information provided is not comprehensive with regard to product risks. For a comprehensive listing of indications, contraindications, warnings, precautions, and adverse events refer to the product's Instructions for Use. Alternatively, you may contact a Coloplast representative at 1-800-258-3476 and/or visit the company Website at [www.coloplast.us](http://www.coloplast.us).

**Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician. See the device manual for detailed information regarding the implant procedure, contraindications, warnings, precautions, and potential complications/adverse events.

For further information, call Coloplast Corp at 1-800-258-3476 and/or consult the company website at [www.coloplast.us](http://www.coloplast.us).

**Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician.

### Genesis® 2-Piece Flexible Penile Prosthesis with HydroVANTAGE™ Hydrophilic Coating

**Indications:** The Genesis Prosthesis is designed for the management of impotence stemming from a variety of causes, including; epispadias; pelvic fracture; spinal cord injury or disease; prostatectomy; cystectomy; abdominal-perineal resection; multiple sclerosis; diabetes mellitus; alcoholism; arteriosclerosis and hypertensive vascular disease; priapism; and Peyronie's disease. The Prosthesis may also be used in selected patients with psychogenic impotence.

**Contraindications:** Implantation procedures are not advisable if infection is present anywhere in the body, especially urinary tract or genital infection. The Prosthesis should not be used in patients who have unresolved problems such as elevated residual urine from bladder outlet obstruction, or neurogenic bladder. The Prosthesis should be used with caution in diabetic patients who are more susceptible to infection and the complications of infection than nondiabetic patients. Other contraindications include unresolved urinary problems, any condition which may hamper sexual activity (such as severe angina), a history of sensitivity to foreign materials, compromised wound healing, compromised immune system, any anatomic or physiologic abnormality that could lead to significant postoperative complications, an unwillingness to undergo any further surgery for revision and psychological instability of the patient.

**Warnings:** Implantation of the device may eliminate any natural erections. Men with diabetes or spinal cord injuries, as well as immunocompromised patients, may have an increased risk of device infection which would necessitate an additional surgery. If a component of the device threatens to erode out the skin it must be addressed by a urologist. Failure may lead to infection and subsequent loss of penile tissue. Implantation of a penile prosthesis may result in penile shortening, curvature or scarring. Pre-existing abdominal or penile scarring or contracture may make surgical implantation more complicated or impractical. The risks and benefits of implanting this device in patients with lupus, scleroderma, myasthenia gravis, or documented sensitivity to silicone should be carefully considered.

**Precautions:** A thorough preoperative consultation should include a discussion between the patient and physician of all available treatment options for erectile dysfunction and their risks and benefits.

**Potential Complications:** Scrotal swelling, device infection, auto-inflation, discomfort, angulation/curvature, edema, device malfunction/deflation, pain, difficulty with ejaculation, transient urinary retention, fever, migration, patient dissatisfaction, hematoma, wound opening with drainage, bleeding, delayed wound healing, decreased penile sensation, component erosion, inguinal or reservoir hernia.

See the device manual for detailed information regarding the implant procedure, contraindications, warnings, precautions, and potential complications/adverse events.

For further information, call Coloplast Corp at 1-800-258-3476 and/or consult the company website at [www.coloplast.us](http://www.coloplast.us).

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#### References

1. A Surgeon's Guide to the Various Antibiotic Dips Available During Penile Prosthesis Implantation. Lokeshwar SD1, Bitran J1, Madhusoodanan V1, Kava B1, Ramasamy R2. *Curr Urol Rep.* 2019 Jan 30;20(2):11. doi: 10.1007/s11934-019-0874-8.