

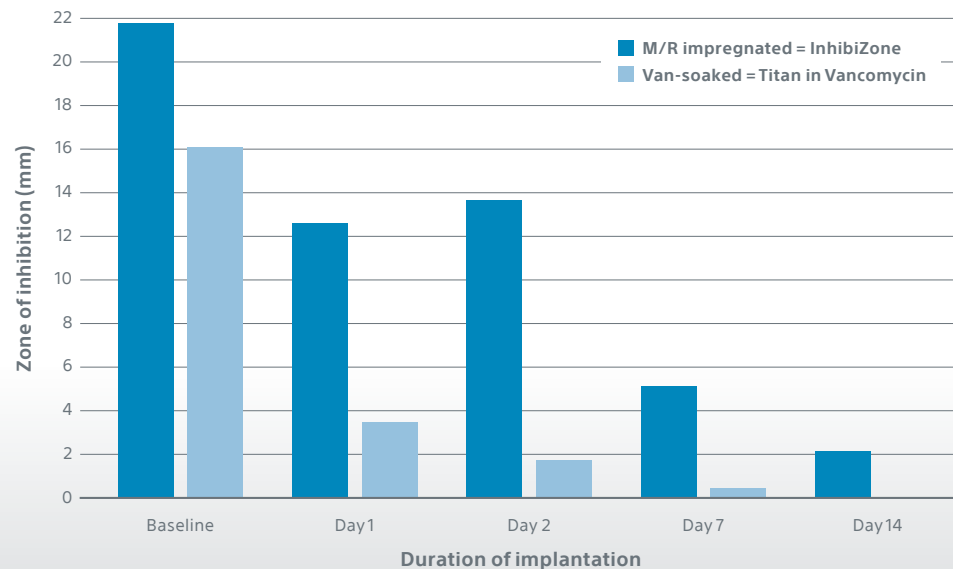
# InhibiZone™

## Designed for protection

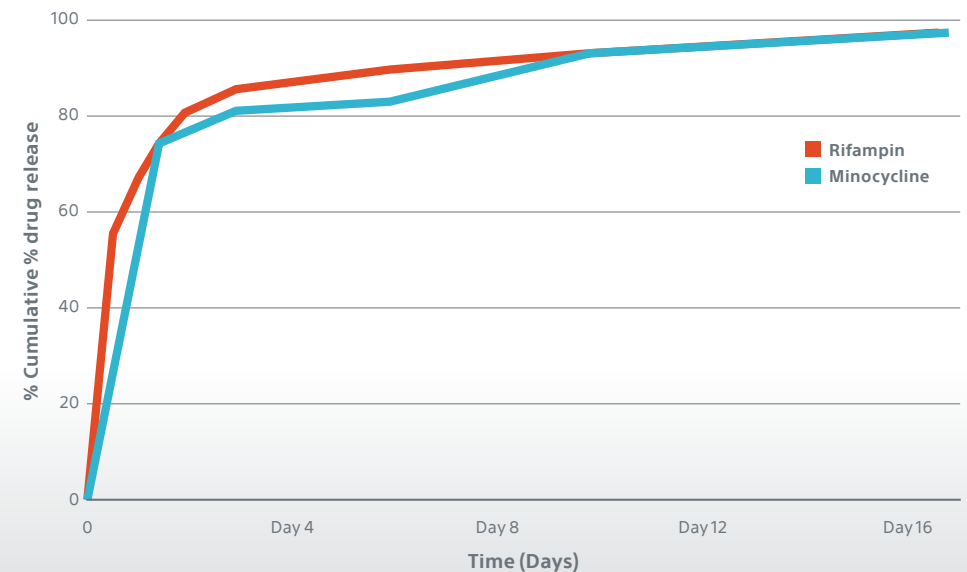
InhibiZone Treatment is a proprietary combination of the antibiotics Rifampin and Minocycline that are impregnated into the silicone of the prosthesis during the manufacturing process. The hydrophobic silicone polymer slows drug diffusion, resulting in sustained release of the drugs over an extended time. Its gradual release over 14 days creates a zone of inhibition effective against the bacteria commonly associated with inflatable penile prosthesis infections.<sup>1,2</sup>



**AMS 700 IZ vs. Coloplast soaked in Vancomycin<sup>1</sup>**



**AMS 700 InhibiZone release in human serum<sup>2</sup>**



# Hydrophilic coating

## Drug release mechanism of action and duration<sup>1</sup>

Hydrogels or hydrophilic coatings have a smaller, hydrophilic matrix, meaning they absorb more water than antibiotic solution. After hydration, the coating is 90-95% water by weight.<sup>3</sup>

Hydrophilic coatings rapidly release 100% of the antibiotic drug within the first few minutes to hours once exposed to PBS solution. Because the matrix is on the surface of the device, there is no barrier to drug diffusion.<sup>2</sup>

## Coloplast Titan™ IPP with Hydrophilic Coating

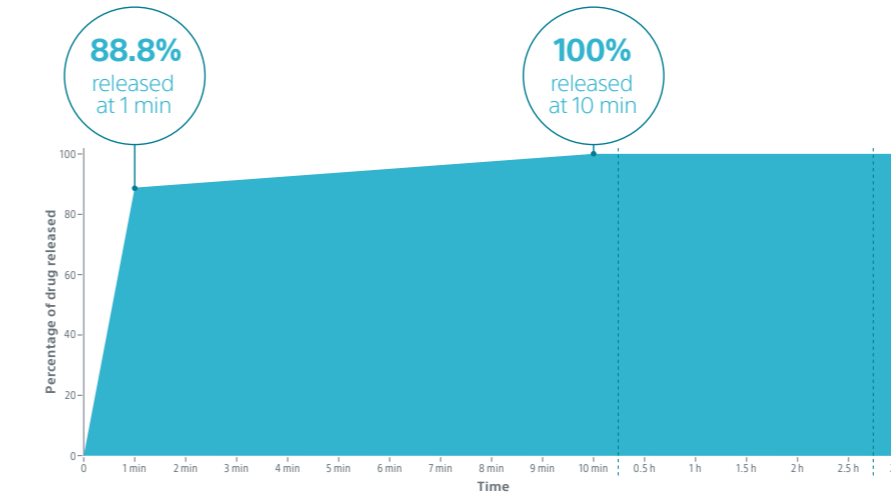
### Drug Release Testing Methods & Results

Results demonstrate the rapid “burst” or release of drug delivery via hydrophilic-coated IPP.

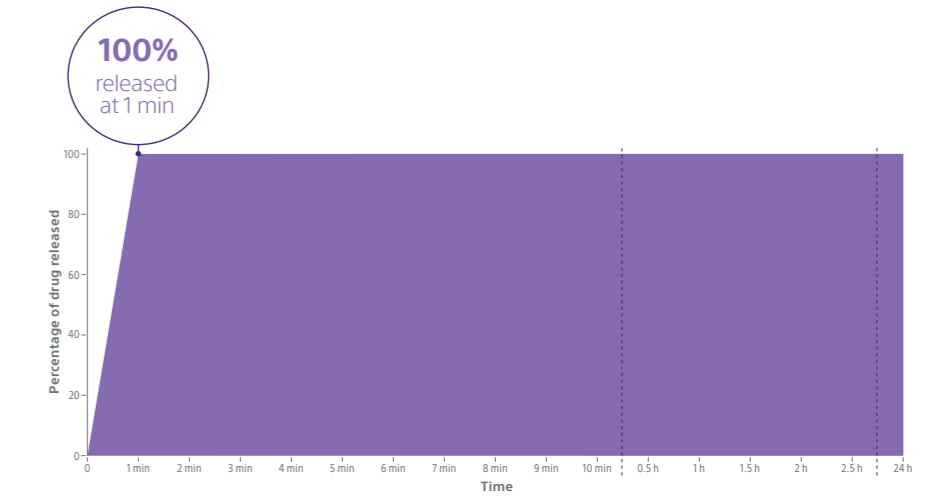
### Bench Test Study Design:

- 3" segments of Coloplast Titan IPP
- N=3 soaked for 10 min
- Ran KDR extraction in 10mL PBS at 37c on shaker
- T0 = ~10 seconds in PBS and pulled out
- Put same sample into a new vial of 10mL PBS for 1, 10, 15, 30, 60, 120, 140min timepoints

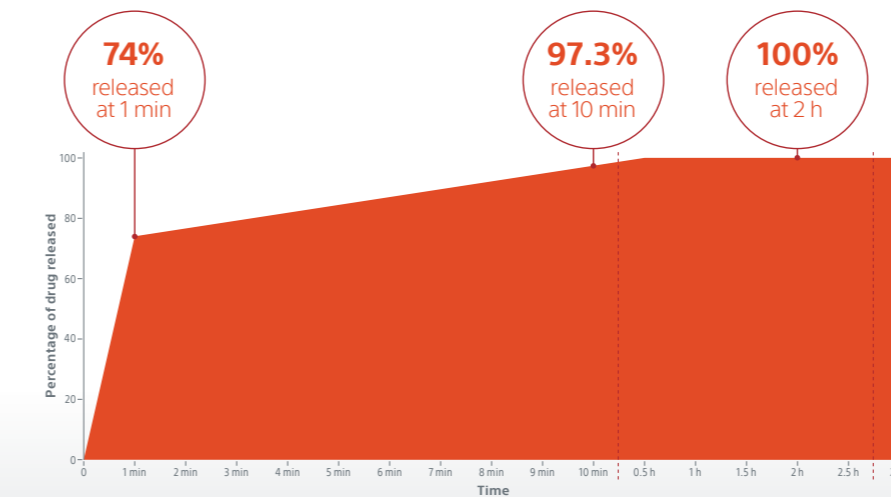
Concentration: Minocycline 1ug/mL  
Soak time: 10 minutes



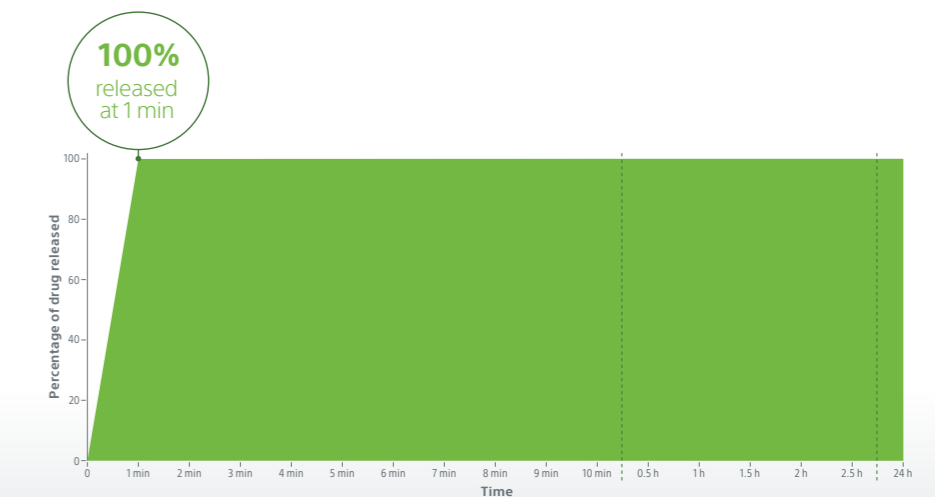
Concentration: Vancomycin .5mg/mL  
Soak time: 10 minutes



Concentration: Rifampin 10ug/mL  
Soak time: 10 minutes



Concentration: Amphotericin B 5mg/mL\*  
Soak time: 10 minutes



\* 100 times higher than what is used clinically

Bench Test results may not necessarily be indicative of clinical performance.

# The innovative AMS 700 IPP is the only penile prosthesis line impregnated with the proprietary InhibiZone™ Antibiotic Surface Treatment, so you can trust that it is also the only one clinically proven to reduce the risk of infection.<sup>4-6</sup>

56%

infection reduction in first-time implants<sup>4</sup>

65%

infection reduction in high-risk patients with diabetes<sup>5</sup>

32%

infection reduction in revision procedures<sup>6</sup>

1. Data on file with Boston Scientific.

2. Mansouri MD, Boone TB, Darouiche RO. Comparative assessment of antimicrobial activities of antibiotic-treated penile prostheses. *Eur Urol.* 2009 Dec;56(6):1039-45.

3. Wilson SK, Salem EA, Costerton W. Anti-infection dip suggestions for the Coloplast Titan Inflatable Penile Prosthesis in the era of the infection retardant coated implant. *J Sex Med.* 2011 Sep;8(9):2647-54.

4. Carson CC III, Mulcahy JJ, Harsh MR. Long-term infection outcomes after original antibiotic impregnated inflatable penile prosthesis implants: up to 7.7 years of follow-up. *J Urol.* 2011 Feb;185(2):614-8.

5. Mulcahy JJ, Carson CC III. Long-term infection rates in diabetic patients implanted with antibiotic-impregnated versus nonimpregnated inflatable penile prostheses: 7-year outcomes. *Eur Urol.* 2011 Jul;60(1):167-72.

6. Nehra A, Carson CC III, Chapin AK, et al. Long-term infection outcomes of a 3-piece antibiotic impregnated penile prostheses used in replacement implant surgery. *J Urol.* 2012 Sep;188(3):899-903.

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