



25 YEARS
OF EXPERTISE
IN CATHETER
MAINTENANCE

CATHETER MAINTENANCE WITH URO-TAINER® PHMB

IMPROVING PATIENT QUALITY OF LIFE

Uro-Tainer® PHMB

0.02% Polihexanide

Uro-Tainer® PHMB is a catheter maintenance solution for reducing bacterial colonisation within the catheter. It comes in a closed, easy to use delivery system and is used for routine removal of bacteria from suprapubic and indwelling urethral catheters.

What is PHMB?

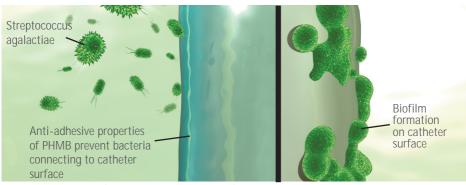
Protects Helps Minimises Bacteria

PHMB (known chemically as Poli Hexa Methyline Biguinide or Polihexanide) is active against gram – and gram + bacteria, fungi and yeast including MRSA, Pseudomonas aeruginosa, VRE etc.

Bacterial colonisation of urinary catheters is aided by the formation of biofilm, which protect the microorganisms and makes them difficult to eradicate^{1,2,3}. These are particularly hard to destroy as they can adhere strongly to the surface of the catheter. Studies have shown PHMB prevents the adhesion of bacteria and biofilm formation⁴. Its cationic nature will destroy the cell membrane integrity, thus killing the bacteria^{4,5,6}.

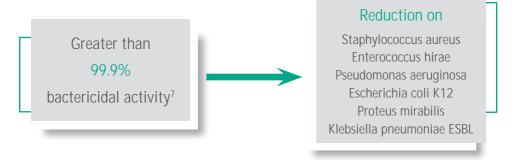
Standard therapeutic doses of antibiotics may have little or no effect on bacteria in biofilm. Evidence suggests that physical removal i.e rinsing is the best method of biofilm removal¹.

The anti-adhesive effect of polihexanide on biofilm formation has been evaluated in an in vitro study based on a human cell line⁴.



+ Streptococcus agalactiae (adapted from: Afinogenoua AG 604)

Uro-Tainer® PHMB is more effective than saline in reducing the bacterial load in the catheter.



Properties of PHMB

PHMB is not adsorbed by cells and tissue, and therefore cannot interfere with the metabolism of the body.



Safe, simple delivery system

The Uro-Tainer® concept was developed over 25 years ago to replace standard bladder irrigation using syringes. This system reduces the associated risks of contamination and excessive pressure and/ or vaccum on the bladder wall8.

Benefits

- Completely closed system
- Gentle delivery to patients
- Sterile and ready for immediate use

Choosing the correct Uro-Tainer® solution

Issue	Risk of bacterial colonisation	Encrustation	Debris, mucus, haematuria
Treatment objective	Prevention or reduction of adhesive cells	Prevent or remove encrustation	Mechanical rinsing or flushing
Uro-Tainer® PHMB	✓	-	✓
Uro-Tainer® NaCl	-	-	✓
Uro-Tainer® Suby G & Uro-Tainer® Solutio R	-	✓	-

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Uro-Tainer® PHMB

PHMB is recommended to help aid the removal of debris, mucus, light haematuria and provide bacterial decolonisation of the catheter.

The regime varies from user to user; up to one or two irrigations per day may be required.



References

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- 7. Data on file: Brill H, Bactericidal activity of Uro-Tainer in Quantative Suspension Test according to EN13727:2003.
- 8. Getliffe, KA Bladder Instillations and bladder washouts in the management of catheterised patients. J Adv Nursing 1996, 23: 548-554
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