

UROSHIELD™

A Solution for

Urinary Catheter Care



- Reduces pain and discomfort associated with catheter use
- Decreases catheter related trauma
- Diminishes bacteriuria by prevention of biofilm formation
- Increases antibiotic efficacy



Designed to prevent the formation of biofilm on catheters

Indwelling urinary catheters serve as a nidus for bacterial attachment, biofilm formation and subsequent urinary tract infection (UTI). These infections may cause serious complications and may lead to increased mortality, extended hospital stay and increased medical costs. In fact, catheter acquired infection is one of the most common iatrogenic complications. UroShield is a solution for the prevention of biofilm in indwelling urinary catheters.

Decreasing pain, discomfort and catheter related trauma

Urinary catheters are a common source of pain and discomfort to patients. UroShield is the first product to harness the known therapeutic effects of ultrasound such as tissue healing and muscle relaxation to treat the pain and discomfort associated with urinary catheter use. Clinical trials have shown that the acoustic sound waves generated by UroShield along the urinary catheter result in a significant decrease in catheter associated pain and discomfort.

Transforming catheters into active therapeutic devices

UroShield generates ultrasound waves along both inner and outer surfaces of the catheter. These surface acoustic waves interfere with biofilm formation by inhibiting bacterial attachment and confer a protective effect on the mucosa, thus protecting it from catheter trauma. Independent studies at leading universities have shown that surface acoustic waves produced by UroShield enhance the ability of the immune system to fight biofilm. This critical combination of mucosal protection and enhancement of the immune response against biofilm are essential

Applied directly on the catheter

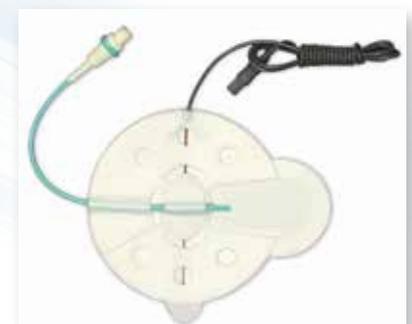
UroShield is composed of two components:

A disposable component - the actuator, which is clipped onto the external portion of any Foley catheter, and a portable, AC or battery powered driver unit which activates the actuator. Once the urinary catheter has been placed into the patient's bladder, the actuator is clipped on the extracorporeal part of the catheter and the device is activated.



Z-Shield: therapeutic patch for Percutaneous Nephrostomy

The Z-Shield patch is an acoustically active stabilization patch designed for percutaneous nephrostomy catheters and applies low frequency ultrasound to the catheter to treat pain, prevent biofilm and maintain prolonged catheter patency.



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Curing through prevention