CAUTI PREVENTION WITH ADVANCECATH

MEDICAL DEVICES
A flexible, indwelling catheter with unique design for preventing urinary tract infections that does not involve antimicrobial coatings.

TECHNOLOGY TYPE
Urology
Indwelling Catheter
Hospital Acquired Infections

STAGE OF DEVELOPMENT
Feasibility demonstrated through testing of preliminary prototype.

IP PROTECTION
Nationalized PCT Issued in the United States
Indwelling Urinary Catheter US9950138B2

FEATURES AND BENEFITS
- Design features eliminate biofilm formation without antibacterial coatings.
- Facilitates flushing the urethra with antibacterial solution.
- Reduces healthcare burden of hospital-acquired infections.
- Thin, flexible design improves patient comfort.
- Lessens chance of damage when removing catheters.

TECHNOLOGY SUMMARY
Catheter-associated urinary tract infections (CAUTIs) affect over one million patients in the United States annually and contribute to approximately 13,000 deaths and $1B in healthcare costs. Two-thirds of CAUTIs develop due to Foley catheter design flaws that limit urine flow and allow bacterial colonization on the catheter’s external surface.

AdvanceCath is a flexible, indwelling catheter that keeps the sphincter and prostate urethra open, which allows urine to flow around the entire catheter and eliminates the space where bacteria typically spreads. A condom-like catheter collects urine and stores it in a sterile bag. The system also has the ability to flush the urethra with an antibacterial solution to reduce risk of infection further. A bladder retention mechanism under development includes a fail-safe component that will collapse the retention component under excessive pressure and prevent damage to the urethra as the device is removed.

INVENTOR PROFILE
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