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# 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*

### LEARN MORE

Reference Number: U-5409

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### 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.

### 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.

### INVENTOR PROFILE

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DATE UPDATED: 7/16/2019