

TYRX Announces First U.S. Implantation of AIGISR[®] R Fully Bioresorbable Antibacterial Envelope

Procedure Performed at Vanderbilt Heart and Vascular Institute

Monmouth Junction, NJ. (August 7, 2013): TYRX, Inc. announced today that the first implantation of its new AIGISR R Fully Resorbable Antibacterial Envelope has taken place at the Vanderbilt Heart and Vascular Institute in Nashville, TN by Dr. Christopher R. Ellis. The AIGISR R Antibacterial Envelope received U.S Food and Drug Administration (FDA) clearance on May 20, 2013.

“We have been pleased with the performance of the first generation partially-resorbable AIGISR,” stated Dr. Ellis, cardiac electrophysiologist and Assistant Professor of Medicine at the Vanderbilt Heart and Vascular Institute. “Now with the second generation AIGISR R, we have the added benefit of it being fully bioresorbable, which will shorten procedure times required on potential future interventions.”

The AIGISR R device is a fully bioresorbable, antibacterial mesh envelope, intended to hold Cardiac Implantable Electronic Devices (CIEDs), such as pacemakers and implantable cardioverter defibrillators (ICDs) securely in place to provide a stable environment when implanted in the body. The AIGISR R contains the antimicrobial agents rifampin and minocycline, which are released locally into the tissue to help reduce Surgical Site Infections (SSIs) associated with CIED implantation. Multiple studies have shown that patients at high risk for CIED infection who are implanted with the AIGISR Antibacterial Envelope had 70% to 100% fewer device infections than similar patients who did not receive the AIGISR.

Vanderbilt Heart and Vascular Institute recently performed a matched cohort study to compare the incidence of CIED infection in patients receiving a CIED with or without an AIGISR Antibacterial Envelope. After a minimum of 90days of follow-up, the incidence of CIED infection was significantly lower in the group that received the AIGISR, compared to those that did not (0.4% vs. 3.0%, OR = 0.13 [0.02-0.95],p=0.04). There were 87 percent fewer CIED infections in patients who received the AIGISR, compared to those who did not. (Kolek *et al.Pacing Clin Electrophysiol.*2013;36(3);354-361).

“We are very pleased to have the first U.S. AIGISR R implantation at the Vanderbilt Heart and Vascular Institute,” commented Robert White, TYRX President and Chief Executive Officer. “The AIGISR R provides physicians and facilities with a key tool in preventing surgical site infections and in helping to lower the hospital costs associated with them. Two recent studies indicate that hospitals can save \$102,000 for every 100 high-risk patients that receive the AIGISR Antibacterial Envelope.”

About TYRX, Inc.

TYRX, Inc. commercializes innovative, implantable combination drug+device products focused on infection control, including the AIGISR_x Antibacterial Envelope, designed to reduce surgical site infections associated with Cardiac Implantable Electronic Devices (CIEDs). AIGISR_x products contain the antimicrobial agents, rifampin and minocycline, which have been shown to reduce infection by pathogens responsible for the majority of CIED infections, including “superbugs” such as methicillin-resistant *S. aureus* (MRSA).*

For more information, please visit www.TYRX.com or www.HeartDeviceInfection.com.

*Data on file at TYRX and published Hansen *et al. Pacing Clin Electrophysiol.* 2009; 32(7):898-907.

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