

Khale Innovations, Inc.

Medical Devices

Khale, Innovations, Inc. is a medical device company marketing its first product line HyGreen, The Intelligent Hand Hygiene System. HyGreen offers the first real-time hand hygiene recording and reminding system that records all hand-washing events and all patient-staff interactions in the hospital environment.

Guidelines from the Center for Disease Control have repeatedly emphasized that hand washing is the single most important procedure for preventing infections, yet reports continue to indicate that healthcare worker adherence to hand washing guidelines are low. HyGreen is designed to provide the first line of defense in the control of healthcare associated infections. The system actively reminds busy healthcare workers to wash their hands and records all hand washing events and patient-staff interactions in the hospital environment giving hospitals the first comprehensive and definitive tool to effectively monitor adherence to hand hygiene protocols.

Technology

The HyGreen system consists of a handwash sensing device mounted next to each gel or soap dispenser, a bed monitor at every patient bed, and an electronic ID-badge holder worn by each healthcare worker. When the employee applies gel or soap to their hands, they simply place their hands under the handwash sensing device. This simple step starts a dynamic chain of events. The handwash sensing device confirms that the hand has soap or gel on it while instantly identifying the employee. Simultaneously, a green LED light on the employee badge is illuminated verifying to the healthcare worker and the patient that hand washing has occurred. Also, the date, time and location of the handwash event are wirelessly transmitted to the central server. When the employee comes within 2-3 feet of a patient bed, a proximity sensing bed monitor wirelessly verifies that the healthcare worker badge is illuminated. If the badge is not illuminated when it comes into the proximity of the bed monitor, the badge vibrates a reminder to the healthcare worker to wash. The illuminated green LED light gives the patient "peace of mind," knowing that the healthcare worker's hands have been washed. The data collected by the HyGreen system on hand washing and patient interaction allows the hospital's infectious disease staff to monitor hand washing compliance, thus enabling more effective training and follow-up.

Market Potential

The estimated worldwide hospital market for HyGreen, including the U.S., is estimated to be over \$3 billion. Future markets include skilled nursing facilities, doctor's offices, and the food service industry.



Xhale Innovations, Inc.

Strategy

Xhale Innovation's strategy is to collaborate with development partners and to explore a broad range of markets and work with strategic partners to customize products and develop sales channels most effective for those markets.

Management Team

Richard R. Allen – Chief Executive Officer

Mr. Allen has 30 years of experience in business and finance, including 18 years in executive leadership positions with medical technology businesses. He co-founded RTI Biologics, Inc. (Nasdaq: RTIX), a medical device company and founded Synogen, a private venture fund investing in early-stage biomedical and medical device companies. Mr. Allen is a licensed CPA in the state of Florida.

Kim Barkman, BSN, MSIT, MBA – Executive Vice President, Xhale Innovations

Ms. Barkman has extensive healthcare industry experience with a focus on the blending of Healthcare and Technology. She worked for a number of years in the Australian Healthcare system before returning to the U.S. to serve as the Director of Clinical Informatics/Development at the Aetna Specialty Pharmacy and then as Director of Business Intelligence/Data Warehousing with Adventist Healthcare system. She received her BSN degree from the University of Florida, MSIT from Barry University and her MBA from Webster University. She has been awarded National Board Certification as an Informatics Nurse.

Richard J. Melker M.D., Ph.D. – Chief Technology Officer

Dr. Melker received his Ph.D. and M.D. degrees from Albert Einstein College of Medicine. After a residency in Pediatrics, and fellowships in Pediatric Cardiology and Critical Care Medicine, he served as Director of Emergency Services at Shands Hospital at the University of Florida College of Medicine, as well as Medical Liaison for the NASA space shuttle program. He holds the position of Professor of Anesthesiology, Pediatrics and Biomedical Engineering at U.F. and since 1993 has been Director of the Florida Anesthesiology Computer and Engineering Team (FACET) which develops and licenses medical devices and technologies.

Donn Dennis, M.D., F.A.H.A. – Chief Science Officer

Dr. Dennis is a board certified anesthesiologist, and previously served as Vice President of Pharmacology at ARYx Therapeutics in Fremont, CA. In addition to his work with Xhale, Dr. Dennis is a professor in the Departments of Anesthesiology, Psychiatry and Pharmacology & Experimental Therapeutics in the College of Medicine at the University of Florida, where he also holds the Joachim S. Gravenstein M.D. Endowed Chair in Anesthesiology. He is also the Director of Nanomedicine at the University of Florida.

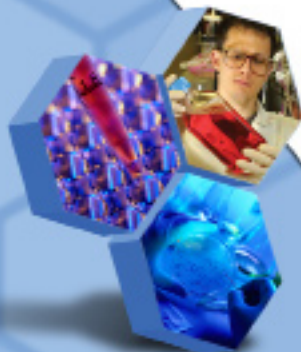
Contact Information

Richard Allen
Xhale, Inc.
3630 SW 47th Avenue
Gainesville, FL 32608
Phone: (352) 371-8488
E-mail: rallen@xhale.com
Web: www.gohygreen.com

*For more information about
UF start-up companies, contact:*

Chris Brown • UF TechConnect®
(352) 846-1840 • cbrown11@ufl.edu

start-up opportunity



UF Office of
Technology Licensing
UNIVERSITY of FLORIDA

UF Tech Connect
An EDA University Center

www.otl.ufl.edu