



## **University of Nevada School of Medicine Professor Confirms Accuracy through Validation Study using the CSI Model 5K Health System**

*Computerized Screening, Inc. (CSI) participates in methodology study of auscultatory method vs. patented multiple technique blood pressure readings compared to ANSI/AAMI SP 10 Standards.*

Professor of Pharmacology Dr. Iain L.O. Buxton at the University of Nevada School of Medicine has completed an accuracy validation study of the CSI Blood Pressure Health System.

The study was conducted at the HAWC Clinic in Reno, Nevada and a pharmacy in Sparks, Nevada. The focus of the study was to validate the accuracy of the methodology used in the FDA approved medical device, blood pressure system, installed at many local businesses and pharmacies as well as throughout the nation and world.

Digital and electronic methodology of the CSI health system was compared to the manual auscultatory method for accurate analysis of blood pressure monitoring using the standards established by ANSI/AAMI SP 10.

Two assisting investigators teamed with Dr. Buxton at the pharmacy and the HAWC clinic where patients were randomly approached and asked to have their blood pressure taken after a brief survey to determine eligibility. The Bland-Altman of Systolic Diastolic Pressure standards were used to determine the “Difference vs Average” graphical readings with manual mercury auscultatory methodology used as the standard.

The 157 volunteers in the study had their blood pressure and heart rate screened by the CSI Health Station and simultaneously, manually by Dr. Buxton and his team.

The participants had no previous cardiac disease history and were connected to the CSI Health Station using an adult sized arm-cuff. The blood pressure measurement technique CSI developed is patented and uses the three accepted non-invasive measurement techniques; auscultatory (sound), oscillometric (pressure) and pattern identification to analyze 40,000-60,000 samples to determine a single blood pressure result.

Dr. Buxton announced at the conclusion of the study, “It is clear, the CSI 6K instrument measures blood pressure accurately based on the comparisons to the auscultatory method as prescribed by ANSI/AAMI SP 10 standards. Moreover, the CSI 5K Health System is precise because we found measurements to be repeatable.”

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**About Computerized Screening, Inc.** CSI is a medical device manufacturer, located in Reno, Nevada. Established in 1978, the medical device company emerged from a mission to offer affordable, accurate

blood pressure and heart rate testing for non-clinical settings. CSI is dedicated to provide health assessment tools and information that encourages wellness and preventative healthcare. They can be reached at 1-800-553-9230, [www.computerized-screening.com](http://www.computerized-screening.com)

**About University of Nevada** As the state's only public medical school, the University of Nevada School of Medicine has been meeting statewide healthcare, educational, and clinical needs since 1969. The School of Medicine encompasses 16 clinical medical education departments, including Family Medicine, Pediatrics, Obstetrics/Gynecology, Internal Medicine, Surgery and Psychiatry and Behavioral Sciences, as well as five nationally recognized departments within basic science including microbiology and biomedical engineering. As the largest multi-specialty healthcare focus within the state, the School of Medicine employs more than 185 doctors who both teach and practice medicine throughout Nevada. The school's statewide faculty physician practice group has a combined 25 different medical specialties the seven physician practice offices located in the Reno-Sparks area and five physician offices located in Las Vegas.

The University of Nevada School of Medicine utilizes a best-practice approach to medicine and is committed to addressing the health needs of Nevada now and in the future. For more information, please visit [www.unr.edu/med](http://www.unr.edu/med).