



CVProfilor® Test Shown to Predict Hypertension Better Than Current Standards

St. Paul, MN – April 20, 2010. – New medical research data published in the *American Journal of Epidemiology* provides significant evidence that Hypertension Diagnostics (HD) non-invasive CardioVascular Profiling test, which measures the elasticity of the small blood vessels, is the earliest and best predictor of hypertension when compared to several more established and expensive testing methodologies used by physicians and cardiologists.

Hypertension affects almost 30% of the U.S. population and is associated with a higher incidence of costly public health problems such as stroke, cardiovascular disease, chronic kidney disease and death. The data analyzed, was from the Multi-Ethnic Study of Atherosclerosis (MESA), a large study sponsored by the National Heart, Lung, and Blood Institute (NHLBI) which included over 6,000 women and men of white, African American, Hispanic and Chinese ethnicity, who are being followed over a 10-year period, are between the ages of 45-84 years, and were free of cardiovascular disease signs or symptoms.

The study participants were tested with four diagnostic technologies: (1) coronary computed tomography – sometimes referred to as a CAT Scan or a Heart Scan – which uses radioactive x-rays to look for calcium deposits in the coronary arteries, (2) carotid intima media thickness test – sometimes referred to as Carotid IMT or carotid ultrasound – which utilizes high frequency ultrasound waves to image the arteries that supply blood to the brain; (3) magnetic resonance imaging – sometimes referred to as MRI – which utilizes a powerful magnetic field to visualize the elasticity of the ascending aorta; and, (4) a non-invasive vascular test using a research model of HD's CVProfilor® which uses a safe and simple sensor on the radial artery at the wrist to provide an assessment of the elasticity of the small and large arteries throughout the entire body.

When the results from these tests were evaluated relative to the development of hypertension in the study population, HDI's small artery elasticity index was shown to be the earliest predictor of incident hypertension. These findings confirm that measurement of small artery elasticity using HD's CVProfilor can predict hypertension. More information can be found at the MESA website at <http://mesa-nhlbi.org>.

“The results of this large trial are unmistakable and potentially game-changing to the assessment of hypertension,” said Greg Guettler, Chief Technology Officer of HD. “The data from this publication indicates that the CVProfilor arterial elasticity test can identify patients with hypertension better than and years earlier than more expensive imaging technology that has been considered the standard of care in patients at risk for cardiovascular disease. This study illustrates both the need and the benefit that can be derived from early cardiovascular disease detection.”

“Given the recent published concerns about exposure to high doses of radiation from Heart Scans, which may cause cataracts and increase the risk for some forms of cancer, HD's non-invasive CardioVascular Profiling test does not use radiation. Because future health care legislation will be focused on eliminating unnecessary and expensive tests in favor of tests with strong predictive value and at a lower cost, HD's CVProfilor is well positioned to benefit from future health care reform,” said Guettler.

About Hypertension Diagnostics

Hypertension Diagnostics (www.hypertensiondiagnostics.com) manufactures and markets medical devices for early detection and management of cardiovascular disease in the U.S. and in 40 countries. Its main product, the CVProfilor® DO-2020 CardioVascular Profiling System, has been approved by the Food and Drug Administration (FDA), and is used by over 600 physicians worldwide. HD's CardioVascular Profiling Systems non-invasively measure both large and small artery elasticity. Small artery elasticity has been shown to be highly predictive of cardiovascular disease. Several large pharmaceutical manufacturers have used HD's CardioVascular Profiling Systems in their multi-site clinical research trials. There are over 300 published, peer-reviewed scientific articles and presentations on HD's methodology, which provides evidence on the validity, accuracy and reproducibility of HD's CardioVascular Profiling technology. The technology has been granted with 23 patents and was developed at the University of Minnesota by a team led by world-renown cardiologist, Dr. Jay N. Cohn.

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