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MEDICAL INFORMATION [IN] YOUR FINGERTIP



Endothelial Dysfunction

- Earliest Clinically Detectable Stage of Cardiovascular Disease
- Predicts CV Outcomes Beyond Framingham Risk Score
- Treatment of Endothelial Dysfunction Modifies CV Outcomes

Endo-PAT2000

The Only FDA Cleared Device for Diagnosing Endothelial Dysfunction



- ▶ Over 100,000 tests
- ▶ Over 400 systems in over 40 countries
- ▶ Over 100 publications and abstracts
 - ▶ Over 250 study protocols
 - ▶ Over 15 clinical-phase Pharma studies
 - ▶ Over 10 big population-based studies

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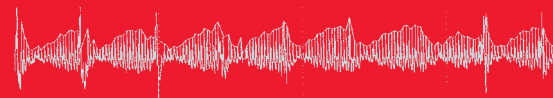
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Endo-PAT2000

Endothelial Function Assessment



Endo-PAT2000

- ▶ Reliable & Reproducible
- ▶ Noninvasive
- ▶ User Independent
- ▶ Easy to Use
- ▶ Office-based
- ▶ Immediate and Automatic Test Analysis
- ▶ Control Arm for Systemic Changes
- ▶ FDA cleared & CE marked
- ▶ Reimbursed



Key Validation Studies

1. Bonetti PO, Pumper GM, Higano ST, Holmes DR Jr., Kuvin JT, Lerman A. **Noninvasive Identification of Patients with Early Coronary Atherosclerosis by Assessment of Digital Reactive Hyperemia.** JACC 2004; 44(11):2137-2141
2. Kuvin JT, Patel AR, Sliney KA, Pandian NG, Sheffy J, Schnall RP, Karas RH, Udelson JE. **Assessment of Peripheral Vascular Endothelial Function with Finger Arterial Pulse Wave Amplitude.** AHJ 2003; 146(1):168-174
3. Nohria A, Gerhard-Herman M, Creager MA, Hurley S, Mitra D, Ganz P. **The Role of Nitric Oxide in Regulation of Digital Pulse Volume Amplitude in Humans.** J Appl. Physiology 2006; 101(2):545-8
4. Hamburg NM, Keyes MJ, Larson MG, Vasan RS, Schnabel R, Pryde MM, Mitchell GF, Sheffy J, Vita JA, Benjamin EJ. **Cross Sectional Relations of Digital Vascular Function to Cardiovascular Risk Factors in the Framingham Heart Study.** Circulation 2008; 117(19): 2467-2474
5. Aversa, C. Vitale, M. Volterrani, A. Fabbri, G. Spera, M. Fini, G. M. C. Rosano. **Chronic Administration of Sildenafil Improves Markers of Endothelial Function in Men with Type 2 Diabetes.** Diabetic Medicine 2008; 25(1): 37-44
6. Reisner Y, Lusky R, Shay-El Y, Schnall R, Herscovici S. **Reproducibility of Endothelial Function and Arterial Stiffness Assessed Using Finger Peripheral Arterial Tonometry.** EHJ 2007; 28 (Suppl.):484
7. Selamet Tierney ES, Newburger JW, Gauvreau K, Geva J, Coogan E, Colan SD, Ferranti SD. **Endothelial Pulse Amplitude Testing: Feasibility and Reproducibility in Adolescents.** J Pediatr 2009; [Epub ahead of print]
8. Rubinshtein R, Kuvin JT, Soffler M, Lennon RJ, Nelson RE, Pumper GM, Lerman LO, Lerman A. **Assessment of Endothelial Function by Peripheral Arterial Tonometry Predicts Cardiovascular Events Beyond the Framingham Risk Score.** JACC 2009; Suppl

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