EN ISO13485:2012

VP1000 plus

An advanced Non-Invasive vascular screening device for the prevention of cardiovascular diseases

An advanced non-invasive screening device to diagnose the degree of arteriosclerosis from different angle: arterial stenosis by ABI and arterial wall stiffness by PWV. Imported and Distributed in India exclusively from OMRON HELTH CARE Japan.

Key Features:

Fast – Approx. less than 5 minutes for a test.

Simple - Fully automated examination can be operated by nurse or technician with minimal training.

Accurate and Reliable results – The advanced technology, – eliminating investigator variability.

Simultaneous Measurement of all limbs - Simultaneously measures of arterial pressures and waveform in all 4 limbs facilitating a highly accurate Ankle-Brachial Index calculation.

Touch Screen Interface - The touch screen interface and logical menu system simplifies data entry and navigation.

Memory – 200 patient report in pdf and 2000 patients raw data are stored in memory. An external memory helps to store unlimited no of patient's pdf report.

Multiple Report Format Options - Reports available include: Clinicians Report, Patient Report, Trend Report, and Post Exercise/Recovery Report.

R-R Variability Study: A simple 2 minutes R-R variability test helps to record the coefficient of variation of HRT and helps to interpret the patients with diabetic autonomic neuropathy failure.

Portable – All-in-one design that can be installed anywhere.

Toe Brachial Index (TBI) – An optional 'TBI' function using plethysmographic toe cuffs to measure toe pressure. The toe vessels are less susceptible to vessel stiffness, which makes the TBI useful.



For more information contact





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For the Patient

Explanation of the Measurement Results



Protect your patients with the new predictors of cardiovascular disease: ABI and baPWV

Ankle Brachial Index (ABI)

- + A widely used index to detect peripheral arterial disease(PAD)
- + A predictive market for cardiovascular disease¹

PAD patients (defined as ABI < 0.9) are at high risk of premature mortality and/or vascular events, regardless of symptoms.²

ACC/AHA and **TASC II** PAD guidelines recommend ABI screening for all patients with suspected lower extremity PAD.^{3,4}

Brachial Ankle Pulse Wave Velocity (baPWV)

- A novel index of arterial stiffness^{5,6}
- A potential independent marker of arteriosclerosis in high risk patients⁷

The 2007 **ESH/ESC** guidelines recognise both ABI and PWV for their predictive value for future cardiovascular events, and as markets of sub-clinical organ damage.⁸

Pulse Wave Velocity:

Pulse Wave Velocity is the propagation speed of this wave along the arteries. Increased stiffness of the arteries increases Pulse Wave Velocity. Age and systolic pressure strongly correlate with PWV. In fact, the most important factor contributing to increase in PWV is age because of increased arterial stiffness caused by medial calcification and loss of elasticity.

Measuring Pulse Wave Velocity is recognized by the medical community as the best way to assess cardiovascular health, because it takes both arterial health and blood pressure variations into account.

"Decreasing PWV shows cardiovascular state improvement." Professor Pierre Boutouyrie, European Society of Hypertension

"Elevated PWV is jointly associated with future systolic blood pressure and incident hypertension." Dr. Gary Mitchell, Framingham Heart Study

Vascular Age

Vascular age is the apparent age of the blood vessels, particularly the arteries when compared to what is normal for the healthy population. Vascular age is affected by genetic predisposition, lifestyle choices and other factors.

Reference:

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- 3. Hirsch AT. Et al. ACC/AHA 2005 Practice Guidelines for the management of patients with peripheral arterial disease. Circulation 2006:113:e463-654.
- 4. Norgren L, et al. Inter-Society Consensus for the Management of Peripheral Arterial Disease (TASC II). Eur J Vasc Endovasc Surg 2007; 33(Suppl 1):S1-75.
- 5. Tanaka H, et al. Comparison between carotid-femoral and brachial-ankle pulse wave velocity as measures of arterial stiffness. J Hypertens. 2009;27(10):2022-7
- 6. Munakata M, et al Utility of automated brachial ankle pulse wave velocity measurements in hypertensive patients. Am J Hypertens. 2003;16(8):653-7.
- Koji Y, et al. Comparison of ankle-brachial pressure index and pulse wave velocity as markers of the presence of coronary artery disease in subjects with a high risk of atheroscierotic cardiovascular disease. Am J Cardiol. 2004;94(7):868-72.
- 8. Mancia G, et al. 2007 ESH-ESC Practice Guidelines for the Management of Arterial Hypertension. J Hypertens. 2007;25(9):1751-62



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