

ARTERIO24

Arterial Stiffness Measurement

arterial function (stiffness) and peripheral blood pressure
& ambulatory blood pressure monitor

ARTERIO24

GOLD STANDARD IN THE EARLY DIAGNOSIS OF ATHEROSCLEROSIS "ARTERIAL AGE" ASSESSMENT

The Gold Standard Technology in Oscillometric Arterial Stiffness Measurement

Original, patented

First technology measuring arterial stiffness oscillometrically

Easy, fast, user independent, reliable, non-invasive

Validated invasively

Bluetooth communication

Controlled by TensioClinic software

Early diagnosis of the arteriosclerosis (stiffened arteries)

Arterial age assessment

10 years experiences in the routine clinical use



Measured parameters

- Peripheral (brachial) blood pressure (SBP, DBP, MAP, PP, HR)
- Aortic pulse wave velocity (PWVao)
- Aortic pulse wave reflection time (RT)
- Augmentation index (Aix aortic, Aix brachial)
- Aortic systolic blood pressure (SBPao)
- Aortic pulse pressure (PPao)
- Left ventricle ejection duration (ED)
- Systolic area index (SAI)
- Diastolic area index (DAI)
- Diastolic reflection area (DRA)
- Ankle-Brachial index (ABI)

Table. Devices and Methods Used for Determining Noninvasively Regional Arterial Stiffness Through Pulse Wave Velocity

Description of the Method (Year of First Publication)	Device	Method	Arterial Pathway	Predictive Value for CV Events (Year of First Publication)
1984	Complior	Mechanotransducer	Carotid-femoral	Yes (1999)
1990	Sphygmocor	Tonometer	Carotid-femoral	Yes (2011)
1994	QKD	ECG + Korotkoff sounds	Aorta + brachial	Yes (2005)
1997	Cardiov. Eng. Inc	Tonometer	Carotid-femoral	Yes (2010)
2002	Doppler probes	Doppler probe	Aortic arch + descending aorta	Yes (2002)
2002	VP-1000 Omron	Brachial and ankle pressure cuffs	Aorta + brachial + lower limbs	Yes (2005)
2004	PulsePen	Tonometer	Carotid-femoral	No
2006	CAVI-VaSera	ECG + Brachial and ankle pressure cuffs	Aorta + brachial + lower limbs	No
2008	Arteriograph	Arm pressure cuff	Aorta + brachial	Yes 2013
2009	MRI ArtFun	MRI	Aortic arch	No
2009	Vicorder	Cuffs	Carotid-femoral	No
2010	Mobil-O-Graph	Arm pressure cuff	Aorta	No

CAVI-VaSera indicates Cardio-Ankle Vascular Index measured with VaSera VS-1500N; and MRI, magnetic resonance imaging. Arterial pathways and predictive values are indicated.

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The Innovative Expansion of Arterial Stiffness Measurement Throughout the Day

Innovative technology for 24 hours
ambulatory arterial function (stiffness)
measurement

With bluetooth communication

Controlled by the TensioWin software



Market segments

- Primary care
- Cardiology
- Nephrology
- Diabetology
- Obstetrics & Gynecology
- Andrology
- Pediatrics
- Scientific (clinical-pharmacologic) studies, research
- Pharmaceutical companies (marketing surveys)
- Occupational medicine
- Sport medicine (fitness clubs)
- Anesthesiology
- Complementary, alternative medicine
- Population health