

EMBARGOED UNTIL TUESDAY, MAY 4, 2021 AT 9 AM ET

WITHINGS LAUNCHES VASCULAR AGE FEATURE TO KEEP PEOPLE YOUNG AT HEART

New cardiovascular index based on Pulse Wave Velocity launches on Withings Body Cardio scale to provide daily heart health monitoring from home

Boston, MA – May 4, 2021 – Withings, a pioneer of the connected health movement, today announced, in addition to measuring heart rate and full body composition, its Body Cardio scale will now feature a new cardiovascular index – Vascular Age. Developed by leading cardiologists, Vascular Age provides a daily, easy-to-understand assessment of arterial health. It accomplishes this by showing people how their cardiovascular health compares to the norms expected within their age bracket, with an estimate of their inner heart age and an indication of whether it is optimum, normal, or not optimum for their chronological age.

With the Vascular Age, Withings has created an instantly recognizable index to help users better understand their health and maintain or change behavior to live a healthy lifestyle. Heart disease is the leading cause of death in the United States, taking about 655,000 American lives annually ([CDC](#)). According to the WHO, cardiovascular diseases are the number one cause of death on a global scale, impacting an estimated 17.9 million lives per year. With cardiovascular diseases taking so many lives each year, the ability to monitor heart health from home with medical-grade insights is imperative.

Determining Vascular Age

Vascular Age is based on Pulse Wave Velocity (PWV), a measurement of arterial stiffness that is a key indicator of cardiac health. It is widely used in clinical settings to provide early warnings of associated risks of cardiac and health incidents such as hypertension, high cholesterol, organ failure, reduced cognitive function, Alzheimer's disease, stroke, and heart attack. It is the speed at which the blood pressure pulse propagates through the circulatory system.

To determine PWV, Body Cardio measures the time difference between blood ejection by the heart in the aorta and the arrival of blood flow in the feet using **ballistocardiography** and **impedance plethysmography** technologies. When the heart beats, it exerts a force that leads to weight variations on the Body Cardio. A change in the body's electrical current can be detected by the scale when this blood flow reaches the feet allowing PWV to be calculated.

Introduced in 2016¹ and with over 80 million readings, Withings has one of the largest PWV databases in the world, which against multiple scientific papers has shown to be highly representative against the general population. To determine Vascular Age, Withings' algorithm analyzes a person's PWV measurement against the norms for their age and physical characteristics and is expressed both as an actual age (+/- range against chronological range) and as an indication of whether a person is optimal, normal, or sub-optimal. The algorithm was developed by leading cardiologist, Prof. Stéphane Laurent of Hôpital Européen Georges Pompidou with reference to the latest clinical literature.

The Importance of Vascular Age

Usually, arteries age more slowly than the rest of the body. However, they can age faster when constantly aggravated by items such as cigarette smoke and foods laden with saturated and trans fats. If vascular age is determined to be significantly greater than a person's chronological age, they may be more at risk of developing cardiovascular issues later in life. Vascular age is a metric recognized by the scientific community and often used as a wellness tool.

The Withings Vascular Age feature provides cardiovascular check-ups in less than 30 seconds in a metric that is easy to understand, put into perspective, and tracked over time. The scale will conveniently show a person if they are optimum, normal or not optimum on its screen, while the Withings Health Mate app will show additional information including an estimation of their vascular age as well as exercise and nutrition advice to improve cardiovascular health.

"Body Cardio redefines how people use connected scales by providing them with a tool to manage their weight as well as their cardiovascular health," said Mathieu Letombe, Withings CEO. "By simply stepping on their scale each morning, Body Cardio will provide the type of cardiovascular assessment people normally only receive at a doctor's office. By linking the information to age, an index everyone understands, we are making it easy for people to stay informed and motivated to make healthy choices."

Smartest of Smart Scales

Body Cardio is packed with features to help people achieve their weight loss and maintenance goals. In addition to weight and BMI readings, Body Cardio also provides a full assessment of body composition. Using a scientific technique called Bioelectrical impedance, it computes the body's percentage of fat, muscle, water, and bone mass. It is also able to take a user's heart rate.

To encourage daily use, a proven strategy to improve weight loss, Body Cardio is full of features to promote engagement. These fully customizable features include graphs showing the user's weight trends over time, their step count from the previous day, and even the morning's weather report so they can choose an outfit for the day.

The Withings Body Cardio can sync via Bluetooth and Wi-Fi. Its additional advanced features include its rechargeable battery with up to 1-year battery life and ability to automatically recognize up to 8 users in a family.

Availability

Vascular Age will be available to all current and future users of Withings Body Cardio and those with Nokia Body Cardio devices from May 4, 2021. Body Cardio is available for \$149.95 at Withings.com, Amazon, and in local retailers.

For more information on Body Cardio, please visit: www.withings.com.

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About Withings

Withings creates devices embedded in easy-to-use everyday objects that connect to apps and act as powerful daily health check-ups, as well as tools to help master long-term health goals.

Founded by visionary innovators Eric Carreel and Cédric Hutchings in 2008, the Withings team of engineers, doctors, and health professionals invent the world's most efficient devices to help track and analyze anyone's vitals. The ecosystem range includes award-winning products across the health spectrum, including hybrid smartwatches and health trackers (Move, Move ECG, Steel, Steel HR, Steel HR Sport, Pulse HR), connected scales (Body Cardio, Body+, Body), blood pressure monitors (BPM Core and BPM Connect), and an advanced sleep system (Sleep Analyzer). Every piece of collected data comes to life in the free Health Mate app, where users can find coaching, motivation, and valuable insights to share with their doctors and shape key aspects of their health. Read more about Withings on withings.com.

[1] The Body Cardio was first introduced with the ability to measure Pulse Wave Velocity in 2016. Following its acquisition by Nokia in late 2016, the capability to measure PWV was suspended in the USA but has remained in place throughout the rest of the world. Now back under Withings ownership, Vascular Age once again makes this powerful measurement available to US audiences in a more easily understandable and actionable metric.

Reference Values for Arterial Stiffness' Collaboration. Determinants of pulse wave velocity in healthy people and in the presence of cardiovascular risk factors: 'establishing normal and reference values. *Eur Heart J*. 2010 Oct;31(19):2338-50. DOI: 10.1093/eurheartj/ehq165. Epub 2010 Jun 7. PMID: 20530030; PMCID: PMC2948201.

Laurent S, Boutouyrie P, Cunha PG, Lacolley P, Nilsson PM. Concept of Extremes in Vascular Aging. *Hypertension*. 2019 Aug;74(2):218-228. DOI: 10.1161/HYPERTENSIONAHA.119.12655. Epub 2019 Jun 17. PMID: 31203728.

Bruno RM, Nilsson PM, Engström G, Wadström BN, Empana JP, Boutouyrie P, Laurent S. Early and Supernormal Vascular Aging: Clinical Characteristics and Association With Incident Cardiovascular Events. *Hypertension*. 2020 Nov;76(5):1616-1624. DOI: 10.1161/HYPERTENSIONAHA.120.14971. Epub 2020 Sep 8. PMID: 32895017.