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WITHINGS ANNOUNCES BPM CORE, A THREE-IN-ONE CARDIOVASCULAR DEVICE COMBINING BLOOD PRESSURE, ELECTROCARDIOGRAM AND DIGITAL STETHOSCOPE MEASUREMENTS

World's most advanced in-home cardiovascular monitor provides tracking of hypertension, early-detection of atrial fibrillation and valvular heart disease



January 6, 2019 – LAS VEGAS, NV – [Withings](#), pioneers of the connected health movement, is breaking new ground with the launch of Withings BPM Core, the world's most sophisticated and wide-ranging in-home cardiovascular monitor. Going way beyond simple, clinically accurate blood pressure monitoring, Withings BPM Core is the first product able to measure blood pressure, take an electrocardiogram (ECG) and listen to the heart via a digital stethoscope in one device.

Honored with a CES Innovation Award, Withings BPM Core, is the company's most advanced health device to date, combining stylish design with medical data traditionally only available in a clinical setting. Along with blood pressure and heart rate monitoring, the three-in-one device measures ECG used to identify atrial fibrillation (AFib), a serious form of irregular heart rhythm that can lead to heart failure, fatigue and shortness of breath and is a major risk for stroke. In addition, its digital stethoscope can provide early detection of valvular heart disease, characterized by damage to one of the four heart valves that may require surgical intervention.

People with high blood pressure are also at risk from both valvular damage and AFib as multiple clinical studies found strong correlations between the three states. However, AFib and valvular diseases are often underdiagnosed because symptoms are not continuous and may be easily missed if they do not occur during infrequent visits to the doctor. The ability to monitor all three conditions in one device is a game changer.

"I founded Withings with the mission to leverage digital connected health technologies to help prevent disease and promote healthy lifestyles," said Eric Carreel, President of Withings. "With Withings BPM Core, we are providing people with an early-warning system to monitor some of the biggest risk factors in cardiovascular health. Early and regular monitoring is key to identifying, preventing and managing

heart diseases, the world's leading cause of mortality, which is why we have created a device that can be used every day in the comfort of your own home."

Clinical Precision in a Home Setting

The Withings BPM Core looks like a traditional arm cuff, but is packed full of advanced medical sensors discreetly built into the device. This includes two stainless-steel electrodes located inside the cuff and on the tube as well as a silicone membrane housing the digital microphone. To use, people simply place the cuff on the upper arm and push the button. Within 90 seconds, it performs three measurements:

- 1. Blood Pressure:** The self-inflating cuff accurately tracks and monitors systolic blood pressure, diastolic blood pressure and heart rate measurements, and provides results instantly on the device via an LED matrix display. The display also provides color-coded feedback glowing green for normal, orange for moderate and red for high blood pressure. Data is also sent to the accompanying Health Mate App via Bluetooth or WiFi.
- 2. Electrocardiogram:** To record an ECG that can detect AFib, users place the cuff on the upper arm and place their other hand on its stainless steel sensors for 20 seconds. Heart rhythms are tracked and displayed within the Health Mate App and will show if the heart beats too quickly and irregularly.
- 3. Valvular Health:** Normally functioning valves ensure blood flows with proper force, in the proper direction at the proper time in the heart. With valvular heart disease, valves become too narrow and hardened (stenotic) to fully open, or are unable to close completely (regurgitation). To detect valvular issues, the device uses a digital stethoscope and analytical algorithm calibrated in collaboration with George Pompidou Hospital in Paris. Users place the sensor on their chest, and it spends 20 seconds listening and evaluating heart performance. Results are displayed on the device and within the Health Mate App where they can also be heard!

Using a Micro USB connection, Withings BPM Core has a fully rechargeable battery and can perform 100s of measurements in a single charge. While the Withings BPM Core can perform all three measurements in one sitting, it can also be programmed to perform any one of the measurements on an as needed basis.

The Heart of the System (or Actionable Results)

The heart of the system is information recording within the accompanying Health Mate App (for iOS and Android.) Because the Withings BPM Core connects via Bluetooth and Wi-Fi, a smartphone does not need to be present to take readings making measurements more convenient. The app captures all of the results from each of the three different measurements to provide a comprehensive and historical record of cardiovascular health.

After completing an ECG, the app will provide an assessment of heart activity, saying whether there is a normal heart rate (known as sinus rhythm) or if suspected AFib is present. Incidences of AFib grow with age, but are often asymptomatic or not persistent in the initial stages. The ability to take readings at home, over time and easily share results with cardiologists and physicians between checkups greatly

increases the chances of detection. As well as ECG results, all data from the Withings BPM Core, including actual audio recordings of the heart, can be shared with a person's medical and caregiving team.

The Power of Prevention

According to the World Health Organization, cardiovascular disease is the most common cause of death. Withings BPM Core has been designed to empower people to manage and mitigate the risk of heart disease and is a powerful tool when considering:

- One-third of Americans suffer from hypertension, but only half effectively control their blood pressure despite uncontrolled blood pressure increasing the risk of congestive heart failure by 50%.
- People with high blood pressure have twice the risk of stroke compared with those with normal levels, and someone with AFib has five times the risk of stroke.
- The CDC estimates six million people in the U.S. have AFib, which is both an indication of heart disease and responsible for one-third of strokes.

"Early detection of both AFib and valvular deterioration can literally save and extend lives, but because these conditions are asymptomatic and paroxysmal in their early stages, they can be difficult for physicians and cardiologists to detect during infrequent hospital visits," continued Carreel. "Withings BPM Core allows people to perform their annual heart checkup every day and share their results with the medical professionals, increasing the chances of issues being detected before they become life-threatening problems."

CES & Availability

Demonstrations of the Withings BPM Core will be available during CES January 8-11th 2019 at the Sands Expo Center, Hall A-D booth #45137. Withings BPM Core will be available for purchase in Q2 2019 for \$249.95. Withings BPM Core is a medical-grade device currently under review for FDA and CE clearance.

About Withings

Withings leads the connected-health revolution by inventing beautiful, smart products and services that help people become happier and healthier. Founded by visionary innovators Cédric Hutchings and Eric Carreel in 2008, Withings is committed to creating enjoyable, empowering experiences that easily fit into our daily lives. Withings has built a range of award-winning products across the health spectrum including activity trackers (Steel, Steel HR, Steel HR Sport, Pulse HR), connected scales (Body Cardio, Body+, Body), Wireless Blood Pressure Monitor (BPM), and an advanced sleep system (Sleep). Every piece of collected data comes to life in the free Health Mate app where the user can find coaching, motivation and insights to shape key aspects of their health.

Read more about Withings on withings.com. For high-resolution images and additional press information, visit withings.com/press.