Masimo Expands the Masimo SafetyNet™ Solution with Continuous Body Temperature Measurement

The Radius Tº™ Wearable Temperature Sensor Automates Remote Monitoring of Patient Temperature Status

Masimo today announced a significant expansion to the Masimo SafetyNet™ platform with the introduction of Radius Tº™, a wearable, wireless sensor that provides continuous body temperature measurements. By augmenting the already powerful Masimo SafetyNet, which features Radius PPG™ tetherless pulse oximetry, with Radius Tº, the remote patient management solution becomes capable of tracking four key vital signs – oxygen saturation, respiration rate, pulse rate, and now temperature – making it an ideal solution for assessing the status of patients with suspected or low-acuity COVID-19, among many other remote patient management uses. Unlike spot-check thermometry solutions, Radius Tº measures body temperature continuously, providing remote notifications when a patient's temperature is outside a clinician-specified range – giving peace of mind to caregiver and patient alike.

This press release features multimedia. View the full release here.

Masimo SafetyNet™ with Radius PPG™ and Radius Tº™ (Photo: Business Wire)

Masimo SafetyNet uses a tetherless, wearable single-patient-use Masimo SET®Measure-through Motion and Low Perfusion™ pulse oximetry sensor to monitor a patient's blood oxygen saturation and pulse rate, as well as respiration rate, perfusion index, and PVi®. Masimo SafetyNet is designed to help manage the surge in COVID-19 patients while maintaining distance from other patients and providers, allowing hospitals to expand remote patient monitoring into alternative care spaces, including overflow locations, emergency recovery facilities, and home care settings. The telehealth platform combines tetherless pulse oximetry—and now also Radius Tº continuous temperature measurement – with a cloud-based remote data capture and surveillance platform accessible from a patient's Android or iOS smartphone or smart device. Monitoring key physiological data provides clinicians with the ability to assess patient status and facilitates awareness of the need for intervention.

Temperature measurement by patients at home typically occurs intermittently, at the prompting of a clinician, and is prone to poor compliance in the collection and reporting of data to healthcare providers in a timely, consistent fashion. A patient taking their temperature at regular or semi-regular intervals may only notice a spike in temperature hours after a fever has begun, or may not even be aware of it, delaying possible clinical intervention. In contrast, Radius T$^\circ$ collects data continuously and seamlessly, recording trend data and automatically notifying remotely when a clinician-specified high temperature threshold is breached, without any action needed on the patient's part. By eliminating inconsistent manual measurements and concerns about patient compliance, while providing continuous insight into changes in body temperature, Radius T$^\circ$ is intended to significantly improve patient status assessment workflows.

Radius T$^\circ$ is small, light, and comfortable, and is easily applied to the chest. Each shower-proof, single-patient-use sensor lasts up to 8 days and can be worn throughout the day and night, allowing patients to continue normal daily activities while still being monitored. Applied to the skin, Radius T$^\circ$ uses proprietary algorithms to measure the patient's body temperature, not just external skin temperature, with laboratory accuracy within ±0.1ºC, whereas other thermometry solutions typically have laboratory accuracy within ±0.2ºC. Using Bluetooth®, Radius T$^\circ$ provides this continuous data to the Masimo SafetyNet app on the patient's smartphone and via secure cloud to clinicians back at the hospital, allowing them to track and trend a patient's body temperature, helping them to spot potential deterioration in patient status using the web-based Masimo SafetyNet Clinician Portal.

Joe Kiani, Founder and CEO of Masimo, said, "We're proud to add this noninvasive, continuous, wearable thermometer solution to our growing family of remote patient management solutions. Masimo SafetyNet has already helped clinicians effectively care for countless patients during the pandemic. With the addition of Radius T$^\circ$, Masimo SafetyNet becomes an even more useful tool for remotely managing patients with COVID-19 and many other health concerns."

Radius T$^\circ$ is indicated for use on patients 5 years and older. Radius T$^\circ$ is not FDA 510(k) cleared; the device is marketed under the FDA's Enforcement Policy for Clinical Electronic Thermometers During COVID-19.

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