



November 1, 2022

Current Health Ltd.  
% Shyama Ramjagsingh  
Regulatory Compliance Manager  
Current Health Ltd  
The Stamp Office, Level 3, 10 Waterloo Place  
Edinburgh, EH1 3EG  
United Kingdom

Re: K222550

Trade/Device Name: Current Wearable Health Monitoring System  
Regulation Number: 21 CFR 870.2300  
Regulation Name: Cardiac Monitor (Including Cardiotachometer And Rate Alarm)  
Regulatory Class: Class II  
Product Code: MSX, FLL, DQA, BZQ, DRG, BZG  
Dated: October 4, 2022  
Received: October 4, 2022

Dear Shyama Ramjagsingh:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies.

You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice>) for more information or contact DICE by email ([DICE@fda.hhs.gov](mailto:DICE@fda.hhs.gov)) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

for

Jennifer Shih Kozen  
Assistant Director  
Division of Cardiac Electrophysiology,  
Diagnostics and Monitoring Devices  
Office of Cardiovascular Devices  
Office of Product Evaluation and Quality  
Center for Devices and Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known)

K222550

Device Name

Current Health System

Indications for Use (Describe)

The Current Wearable Health Monitoring System is intended for reusable bedside, mobile and central multi-parameter, physiologic patient monitoring of adult patients in professional healthcare facilities, such as hospitals or skilled nursing facilities, or their own home. It is intended for monitoring of patients by trained healthcare professionals.

The Current Wearable Health Monitoring System is intended to provide visual and audible physiologic multi-parameter alarms. The Current Wearable Health Monitoring System is intended for temperature monitoring where monitoring temperature at the upper arm is clinically indicated.

The Current Wearable Health Monitoring System is intended for continuous monitoring of the following parameters in adults:

- Pulse rate
- Oxygen saturation
- Temperature
- Movement

The Current Wearable Health Monitoring System is intended for intermittent or spot-check monitoring, in adults, of:

- Respiration rate
- Non-invasive blood pressure
- Lung function & spirometry
- Weight

The Current Wearable Health Monitoring System is not intended for use in high-acuity environments, such as ICU or operating rooms.

The Current Wearable Health Monitoring System is not intended for use on acutely ill cardiac patients with the potential to develop life threatening arrhythmias e.g. very fast atrial fibrillation. For these patients, they should be monitored using a device with continuous ECG. The Current Wearable Health Monitoring System is not a substitute for an ECG monitor.

The Current Wearable Health Monitoring System is not intended for SpO2 monitoring in conditions of high motion or low perfusion.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

**CONTINUE ON A SEPARATE PAGE IF NEEDED.**

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## Special 510(k) Summary

### Summary of Safety and Effectiveness

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirement of 21 CFR 807.92

Submitter Information:	
Name:	Current Health Ltd.
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Establishment Registration Number:	3015134004
Owner/Operator Number:	10059040
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Contact:	Shyama Ramjagsingh Regulatory Compliance Manager
E-mail:	shyama.ramjagsingh@currenthealth.com
Date of Summary:	22-Aug-2022

### Device Information:

Below summarises the Device Classification information regarding the Current Health System.

Device Name	Current Health System
Common Name:	Remote Patient Monitor
Trade Name:	Current Wearable Health Monitoring System
Product Code(s):	MSX; FLL; DQA; BZQ; DRG; BZG (see below)

#### Primary Product Code

Regulation Number (21 CFR)	Device	Product Class	Product Code	Classification Panel
870.2300	System, Network and Communication, Physiological Monitors	Class II	MSX	Cardiovascular

#### Secondary Product Codes

Regulation Number (21 CFR)	Device	Device Class	Product Code	Classification Panel
880.2910	Thermometer, Electronic, Clinical	Class II	FLL	General Hospital

**Special 510(k) Summary**

870.2700	Oximeter	Class II	DQA	Cardiovascular
868.2375	Monitor, Breathing Frequency	Class II	BZQ	Anaesthesiology
870.2910	Transmitters and Receivers, Physiological Signal, Radiofrequency	Class II	DRG	Cardiovascular
686.1840	Spirometer, Diagnostic	Class II	BZG	Anaesthesiology

**Substantial Equivalence**

Manufacturer	Trade Name	Regulation & Product Code	510(k) Number
Current Health Ltd	Current Wearable Health Monitoring System	MSX; FLL; DQA; BZQ; DRG; BZG	K191272

## Submission Description

This Special 510(k) covers a modification to the implementation of the alarm functionality only on the software platform of the Current Health System, as cleared in 510(k) K191272. This was presented in the Q-Submission, Q212340.

This Special 510(k) presents a modified alarm system which does not change the way the alarm system operates for the user – specifically, there no changes to how alarms are presented to the healthcare professionals. The modification enables it to fully utilise a broader range of patient observation data to generate appropriate alarms, notifications, and quantified notes for the clinical care team. It also enhances the reliability, auditability, and scalability of the independent alarm system.

There are no significant changes presented to the other software components previously cleared in K191272 – specifically, there is no change to the display of data from the wearable or how alarms are presented/notified to the healthcare professional. In addition, there are no changes to the wearable hardware component, as cleared in 510(k) K210133. Well-established methods have been used to evaluate the change and the date to be reviewed is provided in a summary in this submission.

## Device Description

### General Description

The Current Wearable System is a remote patient monitoring system that consists of a monitoring device (the wearable) worn on the upper arm by adult patients (aged 18 years old and over), a software platform (containing the alarming system) and a user interface to allow presentation of vital signs data both on mobile devices and web-based dashboard. The Current Wearable System is also integrated with third-party devices for displaying and monitoring physiological signs.

The Wearable is intended to continuously monitors physiological vital sign data from the person being monitored and securely transmit the encrypted data via the home hub to the secure server. The wearable is intended for use in professional healthcare facilities, such as hospitals or skilled nursing facilities, or the home by trained healthcare professionals.

The healthcare professional can securely access the patient physiological signs remotely via a mobile application or a web-interface which is also intended to provide visual and audible physiologic multi-parameter alarms.



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### Intended/ Indications for Use

The Current Wearable Health Monitoring System is intended for reusable bedside, mobile and central multi-parameter, physiologic patient monitoring of adult patients in professional healthcare facilities, such as hospitals or skilled nursing facilities, or their own home. It is intended for monitoring of patients by trained healthcare professionals.

The Current Wearable Health Monitoring System is intended to provide visual and audible physiologic multi-parameter alarms. The Current Wearable Health Monitoring System is intended for temperature monitoring where monitoring temperature at the upper arm is clinically indicated.

The Current Wearable Health Monitoring System is intended for continuous monitoring of the following parameters in adults:

- Pulse rate
- Oxygen saturation
- Temperature
- Movement

The Current Wearable Health Monitoring System is intended for intermittent or spot-check monitoring of the following parameters in adults, of:

- Respiration rate
- Non-invasive blood pressure
- Lung function & spirometry
- Weight

The Current Wearable Health Monitoring System is not intended for use in high-acuity environments, such as ICU or operating rooms.

The Current Wearable Health Monitoring System is not intended for use on acutely ill cardiac patients with the potential to develop life-threatening arrhythmias e.g., very fast atrial fibrillation. For these patients, they should be monitored using a device with continuous ECG. The Current Wearable Health Monitoring System is not a substitute for an ECG monitor.

The Current Wearable Health Monitoring System is not intended for SpO2 monitoring in conditions of high motion or low perfusion.

### Comparison with the Predicate and Previously Cleared Device

The candidate device is substantially equivalent to the predicate, K191272, the Current Health Wearable Monitoring System and a comparison of the key characteristics is summarised in Table 1.

Characteristic	Current Health Wearable Monitoring System with Modification	Current Health Wearable Monitoring System K191272 (Predicate)	Equivalence
Device Name	Current Health Monitoring System	Current Health Monitoring System	Equivalent
Manufacturer	Current Health Ltd	Current Health Ltd	Equivalent
Device Classification	II	II	Equivalent
Primary Product Code	MSX	MSX	Equivalent
Secondary Product Code	FLL; DQA; BZQ; DRG	FLL; DQA; BZQ; DRG	Equivalent
Indications for Use	The Current Wearable Health Monitoring System is intended for reusable bedside, mobile and central	The Current Wearable Health Monitoring System is intended for reusable bedside, mobile and central	Equivalent



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Characteristic	Current Health Wearable Monitoring System with Modification	Current Health Wearable Monitoring System K191272 (Predicate)	Equivalence
	<p>multi-parameter, physiologic patient monitoring of adult patients in professional healthcare facilities, such as hospitals or skilled nursing facilities, or their own home. It is intended for monitoring of patients by trained healthcare professionals.</p> <p>The Current Wearable Health Monitoring System is intended to provide visual and audible physiologic multi-parameter alarms. The Current Wearable Health Monitoring System is intended for temperature monitoring where monitoring temperature at the upper arm is clinically indicated.</p> <p>The Current Wearable Health Monitoring System is intended for continuous monitoring of the following parameters in adults:</p> <ul style="list-style-type: none"> <li>• Pulse rate</li> <li>• Oxygen saturation</li> <li>• Temperature</li> <li>• Movement</li> </ul> <p>The Current Wearable Health Monitoring System is intended for intermittent or spot-check monitoring of the following parameters in adults, of:</p> <ul style="list-style-type: none"> <li>• Respiration rate</li> <li>• Non-invasive blood pressure</li> <li>• Lung function &amp; spirometry</li> <li>• Weight in adults</li> </ul> <p>The Current Wearable Health Monitoring System is not intended for use in high-acuity environments, such as ICU or operating rooms.</p> <p>The Current Wearable Health Monitoring System is not intended for use on acutely ill cardiac patients with the potential to develop life-threatening arrhythmias e.g., very fast atrial fibrillation. For these patients, they should be monitored using a device with continuous ECG. The Current Wearable Health Monitoring System is not a substitute for an ECG monitor.</p> <p>The Current Wearable Health Monitoring System is not intended for</p>	<p>multi-parameter, physiologic patient monitoring of adult patients in professional healthcare facilities, such as hospitals or skilled nursing facilities, or their own home. It is intended for monitoring of patients by trained healthcare professionals.</p> <p>The Current Wearable Health Monitoring System is intended to provide visual and audible physiologic multi-parameter alarms. The Current Wearable Health Monitoring System is intended for temperature monitoring where monitoring temperature at the upper arm is clinically indicated.</p> <p>The Current Wearable Health Monitoring System is intended for continuous monitoring of the following parameters in adults:</p> <ul style="list-style-type: none"> <li>• Pulse rate</li> <li>• Oxygen saturation</li> <li>• Temperature</li> <li>• Movement</li> </ul> <p>The Current Wearable Health Monitoring System is intended for intermittent or spot-check monitoring of the following parameters in adults, of:</p> <ul style="list-style-type: none"> <li>• Respiration rate</li> <li>• Non-invasive blood pressure</li> <li>• Lung function &amp; spirometry</li> <li>• Weight in adults</li> </ul> <p>The Current Wearable Health Monitoring System is not intended for use in high-acuity environments, such as ICU or operating rooms.</p> <p>The Current Wearable Health Monitoring System is not intended for use on acutely ill cardiac patients with the potential to develop life-threatening arrhythmias e.g., very fast atrial fibrillation. For these patients, they should be monitored using a device with continuous ECG. The Current Wearable Health Monitoring System is not a substitute for an ECG monitor.</p> <p>The Current Wearable Health Monitoring System is not intended for</p>	





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Characteristic	Current Health Wearable Monitoring System with Modification	Current Health Wearable Monitoring System K191272 (Predicate)	Equivalence
	SpO2 monitoring in conditions of high motion or low perfusion.	SpO2 monitoring in conditions of high motion or low perfusion.	
Intended user/Location	Professional healthcare facilities & home environments	Professional healthcare facilities & home environments	Equivalent
Site of application	Upper arm with a strap	Upper arm with a strap	Equivalent
Wearable physiological monitoring	Pulse rate; Oxygen saturation; Temperature; Respiration Rate; Movement	Pulse rate; Oxygen saturation; Temperature; Respiration Rate; Movement	Equivalent
Instructions of use	Instructions for use included that includes graphical instructions, text and relevant warnings and cautions	Instructions for use included that includes graphical instructions, text and relevant warnings and cautions	Equivalent
Sterile	No	No	Equivalent
Re-usable	Yes	Yes	Equivalent
Generation of Alarms	The alarm system inputs data from the patient facts database (data from the wearable, existing integrated devices and from a broader range of patient observations) to generate appropriate alarms, notifications and quantified notes to the clinical care team	The alarm system inputs data from the patient facts database (data from the wearable and existing integrated devices) to generate appropriate alarms and notifications to the clinical care team.	Substantially Equivalent
Display of Alarms on User Interface	Alarms are presented through visual and audible notifications on the web dashboard and mobile apps	Alarms are presented through visual and audible notifications on the web dashboard and mobile apps	Equivalent

Table 1: Comparison of characteristics between the Modified System and the Predicate System.

### Technological Characteristics

The proposed modification to the alarm system on the Current Health Wearable Monitoring System has identical indications for use, operating principles, performance, and technical specification as the predicate device, the Current Health Wearable Monitoring system. The proposed modification enables the alarm system to utilise a broader range of patient observation data to generate appropriate alarms to the clinical care team. Equivalence between both systems have been shown through the thorough performance testing performed.

### Summary of Non-Clinical Tests (Performance data)

The performance of the alarm system modification is identical to the predicate and previously cleared device in terms of technical specification and safety. The primary difference is the modified system allows a wider range of patient observation data to generate alarms and it enhances the reliability, auditability, and scalability of the alarm system.

All changes were verified and validated according to Current Health’s internal design control process and in accordance with special controls for software systems. The testing demonstrated that the proposed modification performed according to its specification and has met the technological and performance criteria which has not changed from the predicate device.



## Summary of Animal & Clinical Studies

Substantial equivalence is based on an assessment of non-clinical performance data and no animal or clinical performance data is included.

## Conclusion

Based on the information presented in this Special 510(k) submission, the Current Health Wearable Monitoring System with the modified alarm system, is substantially equivalent to the predicate device (Current Health Wearable Monitoring System) in terms of safety, performance, functionality, and indications for use and is as safe and effective for its intended use.