May 12, 2020

Shenzhen Changke Connect Electronics Co., Ltd.
% Kevin Wang
Consultant
Chonconn Medical Device Consulting Co., Ltd.
No. A415, Block A, NanShan Medical Devices Industrial Park Nanshan District
Shenzhen, 518067, China

Re: K200026
Trade/Device Name: Disposable ECG Cable
Regulation Number: 21 CFR 870.2900
Regulation Name: Patient Transducer And Electrode Cable (Including Connector)
Regulatory Class: Class II
Product Code: DSA
Dated: April 2, 2020
Received: April 8, 2020

Dear Kevin Wang:

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) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

for

Jennifer Shih
Assistant Director
DHT2A: Division of Cardiac
Electrophysiology, Diagnostics
and Monitoring Devices
OHT2: Office of Cardiovascular Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120
Expiration Date: 06/30/2020
See PRA Statement below.

510(k) Number *(if known)*
K200026

Device Name
Disposable ECG Cable

Indications for Use *(Describe)*
The disposable ECG cable is intended to be used with ECG. The device is used to connect electrodes placed at appropriate sites on the patient to ECG for general monitoring and/or diagnostic evaluation by health care professional.

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.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

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"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

510(K) Summary

Prepared in accordance with the requirements of 21 CFR Part 807.92

Prepared Date: 2020/01/02

1. Submission sponsor

Name: Shenzhen Changke Connect Electronics Co., Ltd.
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2. Submission correspondent

Name: Chonconn Medical Device Consulting Co., Ltd.
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Contact person: Kevin Wang
E-mail: kevin@chonconn.com
Tel: +86-755 33941160

3. Subject Device Information

Trade/Device Name	Disposable ECG Cable
Common Name	ECG Wire
Classification Name	Cable, Transducer and Electrode, Patient
Classification	Class II
Regulation Number	870.2900
Product Code	DSA
Review Panel	Cardiovascular
Submission type	Traditional 510(K)

4. Predicate Device

Manufacturer: Shenzhen Changke Connect Electronics Co., Ltd.
Device: ECG Cable
K#: K191428

5. Device Description

The device is an external device used to transmit ECG signals from electrodes that are affixed to the patient's body for both diagnostic and monitoring purposes. One end of each leadwire is attached to ECG patient electrodes; the other end is affixed / molded into one end of the trunk cable which are plug into an ECG

monitor. The proposed device is disposable.

6. Intended use & Indication for use

The disposable ECG cable is intended to be used with ECG. The device is used to connect electrodes placed at appropriate sites on the patient to ECG for general monitoring and/or diagnostic evaluation by health care professional.

7. Comparison to the Predicate Device

Features	**Subject Device Changke Disposable ECG Cables**	**Predicate Device K191428**	**Comparison**
Applicant	Shenzhen Changke Connect Electronics Co., Ltd.	Shenzhen Changke Connect Electronics Co., Ltd.	Same
Classification Regulation	21CRF 870.2900	21CRF 870.2900	Same
Classification and Code	Class II, DSA	Class II, DSA	Same
Intended use	The disposable ECG cable is intended to be used with ECG. The device is used to connect electrodes placed at appropriate sites on the patient to ECG for general monitoring and/or diagnostic evaluation by health care professional.	The ECG Cable is intended to be used with ECG. The ECG Cable is used to connect electrodes placed at appropriate sites on the patient to ECG for general monitoring and/or diagnostic evaluation by health care professional.	Same
Usage	Disposable	Reusable	Different [1)]
Anatomical sites	Attached to electrodes placed at standard specified locations on chest or extremities	Attached to electrodes placed at standard specified locations on chest or extremities	Same
Patient end termination	Clip	Banana, Snap	Different [2)]
Sterile	No	No	Same
Leadwire material	TPU, Gold plated brass	TPU, PET, Nickel plated brass	Different [3)]
Electrical Safety	Complied with IEC 60601-1 and EC53	Complied with IEC 60601-1 and EC53	Same
Biocompatibility			
Cytotoxicity	Complied with ISO 10993-5	Complied with ISO 10993-5	Same
Skin Irritation	Complied with ISO 10993-10	Complied with ISO 10993-10	Same
Sensitization	Complied with ISO 10993-10	Complied with ISO 10993-10	Same

Justifications for differences between proposed device and the predicate device are shown as below:

Different (1): The proposed device is disposable and the predicate device is reusable. The proposed device was tested according to IEC 60601-1 and EC53. Therefore, this difference does not raise new questions of safety and effectiveness for subject device.

Different (2): The patient end termination is different. This end is intended to connect the electrodes. The proposed device was tested according to IEC 60601-1 and EC53. Therefore, this difference does not raise new questions of safety and effectiveness for subject device.

Different (3): The material is different. The proposed device was tested according to ISO 10993-5 and ISO 10993-10. Therefore, this difference does not raise new questions of safety and effectiveness for subject device.

8. Performance Data

The following performance data were provided in support of the substantial equivalence determination.

Biocompatibility testing

The biocompatibility evaluation for the Changke ECG Cables was conducted in accordance with the FDA Guidance for Industry and Food and Drug Administration Staff: Use of International Standard ISO 10993-1, "Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process". The battery of testing included the following tests:

- Cytotoxicity
- Sensitization
- Irritation

The subject devices are considered surface contacting for a duration of exceed 24 hours but not 30 days.

Non-clinical data

The Changke ECG Cables have been tested according to the following standards:

- IEC 60601-1: 2005+CORR.1: 2006+CORR.2: 2007+A1: 2012, Medical Electrical Equipment-Part 1: General requirements for basic safety and essential performance
- ANSI/AAMI EC53: 2013 ECG Trunk Cables and Patient Leadwires.

The test was selected to show substantial equivalence between the subject device and the predicate.

Clinical data

No clinical study is included in this submission.

9. Conclusion

The intended use and technological features of the proposed subject device do not substantially differ from the legally marketed predicate device. Disposable ECG cable and the predicate device have substantially equivalent intended uses and methods of operation.