

March 25, 2019

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: K193629

Trade/Device Name: Disposable NIBP Cuff Regulation Number: 21 CFR 870.1120 Regulation Name: Blood Pressure Cuff

Regulatory Class: Class II Product Code: DXQ Dated: December 24, 2019 Received: December 26, 2019

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/efdocs/efpmn/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 <u>Federal Register</u>.

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-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">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,

LT Stephen Browning
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

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration Indications for Use See PRA Statement below. See PRA Statement below. Device Name Disposable NIBP Cuff Indications for Use (Describe) The disposable blood pressure cuff is an accessory used in conjunction with noninvasive blood pressure measurement systems. The cuff is non-sterile and for single-patient use. It is available in neonate, infant, child and adult sizes. The cuff is not designed, sold, or intended for use except as indicated.

Type of Use (Select one or both, as applicable
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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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FORM FDA 3881 (7/17) Page 1 of 1 PSC Publishing Services (301) 443-6740 EF

510(K) Summary

Prepared in accordance with the requirements of 21 CFR Part 807.92

Prepared Date: 2019/12/241. Submission sponsor

Name: Shenzhen Changke Connect Electronics Co., Ltd.

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District, Shenzhen, P.R. China Contact person: Yahui Zhou Title: General manager

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2. Submission correspondent

Name: Chonconn Medical Device Consulting Co., Ltd.

Address: No. A415, Block A, NanShan Medical devices Industrial Park Nanshan District, Shenzhen,

Guangdong, P.R. China 518067 Contact person: Kevin Wang E-mail: kevin@chonconn.com

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3. Subject Device Information

Trade/Device Name	Disposable NIBP Cuff		
Model	CK-XT-88062-001, CK-XT-88062-003, CK-XT-88062-005, CK-XT-88062-		
	007, CK-XT-88062-008, CK-XT-88062-010		
Common Name	Non-invasive Blood pressure cuff		
Regulatory Class	Class II		
Classification	21CFR 870.1120 / Blood pressure cuff / DXQ		
Submission type	Traditional 510(K)		

4. Predicate Device

Manufacturer: Shenzhen Caremed Medical Technology Co., Ltd.

Device: Caremed Disposable Blood Pressure Cuff

510(k) No.: K182433.

5. Device Description

The subject device is an accessory used in conjunction with noninvasive blood pressure measurement systems. It is available in neonatal, infant, child and adult sizes.

The subject device includes disposable blood pressure cuff. All the disposable blood pressure cuff has same structure, which contains Cuff and single tube.

The disposable blood pressure cuff is single use device, and which is made of non-woven fabrics (Cuff) and PVC (Air tube), thereinto, the non-woven fabrics (Cuff) is the material used to contacting with the patient. The disposable blood pressure cuff has 6 models with different size for different population with different circumference size.

6. Intended use & Indication for use

The disposable blood pressure cuff is an accessory used in conjunction with noninvasive blood pressure measurement systems. The cuff is non-sterile and for single-patient use. It is available in neonate, infant, child and adult sizes. The cuff is not designed, sold, or intended for use except as indicated.

7. Comparison to the Predicate Device

Features	Subject Device	Predicate Device K182433	Remark
	Disposable NIBP Cuff	Disposable Blood Pressure Cuff	
Applicant	Shenzhen Changke Connect	Shenzhen Caremed Medical	/
	Electronics Co., Ltd.	Technology Co., Ltd.	
Classification	21CRF 870.1120	21CRF 870.1120	Same
Regulation			
Classification	Class II,	Class II,	Same
and Code	DXQ	DXQ	
Common	Non-invasive Blood Pressure	Non-invasive Blood Pressure	Same
name	Cuff	Cuff	
Intended use	The disposable blood pressure cuff	The disposable blood pressure cuff	Same
	is an accessory used in conjunction	is an accessory used in conjunction	
	with noninvasive blood pressure	with noninvasive blood pressure	
	measurement systems. The cuff is	measurement systems. The cuff is	
	non-sterile and for single-patient	non-sterile and for single-patient	
	use. It is available in neonate,	use. It is available in neonate,	
	infant, child and adult sizes. The	infant, child and adult sizes. The	
	cuff is not designed, sold, or	cuff is not designed, sold, or	
	intended for use except as	intended for use except as	
	indicated.	indicated.	
Patient	Adults/Pediatrics	Adults/Pediatrics	Same
Populations			
Tube Number	One	One	Same
Principles of	Bladder is wrapped around the	Bladder is wrapped around the	Same
Operation	patient's limb and secured by hook	patient's limb and secured by hook	
	and loop closure Air hose is	and loop closure Air hose is	
	connected to the noninvasive blood	connected to the noninvasive blood	
	pressure measurement systems	pressure measurement systems	
Limb	Conform to AHA bladder sizes	Conform to AHA bladder sizes	Different

Circumference	recommendations	recommendations	(1)
(Range in cm)	Neonatal (7-13 cm)	Neonatal 1 (3-6 cm)	
	Infant (9-14.8 cm)	Neonatal 2 (4-8 cm)	
	Child (13.8-21.5 cm)	Neonatal 3 (6-11 cm)	
	Adult (27.5-36.5 cm)	Neonatal 4 (7-13 cm)	
	Large Adult (35.5-46 cm)	Neonatal 5 (8-15 cm)	
	Adult Thigh (45-56.5 cm)	Infant (9-14.8 cm)	
		Child (13.8-21.5 cm)	
		Small Adult (20.5-28.5 cm)	
		Adult (27.5-36.5 cm)	
		Adult Long (27.5-36.5/46.5 cm)	
		Large Adult (35.5-46 cm)	
		Large Adult Long (35.5-46 cm)	
Pressure Range	0-300 mmHg	0-300 mmHg	Same
Sterility	Non-sterile	Non-sterile	Same
Max. Leakage	< 4mm Hg/ min.	< 4mm Hg/ min.	Same
Material	Non-woven (Patient contacted);	Non-woven (Patient contacted);	Different
	PVC;	nylon;	(2)
	ABS.	PVC.	
Biocompatibilit	No potential cytotoxicity;	No potential cytotoxicity;	Same
у	No sensitization observed;	No sensitization observed;	
	Negligible (no observed primary	Negligible (no observed primary	
	irritation)	irritation)	

Justification of differences:

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

Different (1): The difference in the limb circumference. Performance testing accordance with ISO 81060-1 has been conducted and provided with this submission. Therefore, this difference does not raise any safety or effectiveness issue.

Different (2): The difference in the material. Biocompatibility testing accordance with ISO 10993-1 has been conducted and provided with this submission. Therefore, this difference does not raise any safety or effectiveness issue.

8. Performance Data

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

Biocompatibility testing

The biocompatibility evaluation for the subject device was conducted in accordance with the FDA Biocompatibility guidance, 2016 (Use of International Standard ISO 10993-1, "Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process") and International Standard ISO 10993-1 "Biological Evaluation of Medical Devices - Part 1: Evaluation and Testing

Within a Risk Management Process," as recognized by FDA. 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

Non-clinical tests were conducted to verify that the subject device met all design specifications as was Substantially Equivalent (SE) to the predicate device. The test results demonstrated that the subject device complies with the following standards:

• ISO 81060-1, Non-Invasive Sphygmomanometers - Part 1: Requirements and Test Methods for Non-Automated Measurement Type, First Edition 2007.

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

9. Conclusion

Based on the indications for use, technological characteristics, and comparison to predicate devices, the subject Disposable NIBP Cuff has been shown to be substantially equivalent to legally marketed predicate device.