

August 31, 2022

Jiangxi AICARE Medical Technology Co., Ltd % Bing Huang Registration engineer Feiying Drug and Medical Consulting Technical Service Group Rm 2401 Zhenye International Business Center, No. 3101-90, Qianhai Road Shenzhen, Guangdong 518052 China

Re: K221040

Trade/Device Name: Electronic Sphygmomanometers, (Model: X1, X2, X5, X6, X7, X8, X11)

Regulation Number: 21 CFR 870.1130

Regulation Name: Noninvasive Blood Pressure Measurement System

Regulatory Class: Class II Product Code: DXN Dated: June 15, 2022 Received: June 22, 2022

Dear Bing Huang:

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 <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,

LCDR 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

510(k) Number (if known)

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2023 See PRA Statement below.

K221040	
Device Name	
Electronic Sphygmomanometers (Model: X1,X2,X5,X6,X7,X8,X11)	
Indications for Use (Describe)	
Electronic Sphygmomanometers is intended to measure the systolic	c and diastolic blood pressure as well as the pulse rate
of a dult person and a dolescents age 18 through 21 years of age . It $$	can be used at medical facilities or at home.
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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510 (k) Summary

This summary of 510(k) safety and effectiveness information is submitted in accordance with requirements of Title 21, CFR Section 807.92.

1) Applicant information:

510(k) owner's name: Jiangxi AICARE Medical Technology Co., Ltd.

Address: No.6, South Side of Nanhuan Road Qianping Industrial Park, Le'an

County, Fuzhou City, 344300 Jiangxi Province, China

Contact person: Lizhu Xiao

Phone number: +86 794 6577516 Fax number: +86 794 6577516

Email: xiaolizhu@spt-tek.com

Date of summary prepared: August 4, 2022

2) Proprietary name of the device

Trade name/model: Electronic Sphygmomanometers

/X1, X2, X5, X6, X7, X8, X11

Common name: Noninvasive blood pressure measurement system

Regulation number: 21 CFR 870.1130

Product code: DXN

Review panel: Cardiovascular

Regulation class: Class II

3) Predicate and reference device

> Predicate device

Sponsor	ShenZhen ZhengKang Technology Co., Ltd
Device Name and Model	Upper Arm Blood Pressure Monitor Model: ZK-B868, ZK-B869,
Device Name and Woder	ZK-B872, ZK-B876
510(k) Number	K191894
Product Code	DXN
Regulation Number	21CFR870.1130.
Regulation Class	П

Reference device

Sponsor	JOYTECH Healthcare Co., Ltd			Jiangsu	Yuyue	Mecical
Sponsor			Equipment& Supply Co., Ltd			
D ' N 1M 11	Arm-type	Fully	Automatic	Electronic	Blood	Pressure
Device Name and Model	Digital Blood Pressure Monitor			Monitor :	YE620B,	YE620D,

	Model:	DBP-1307b,	YE660E, YE660F and YE680B
	DBP-1305b,	DBP-1318b,	
	DBP-1319b,	DBP-1332b,	
	DBP-1333b,	DBP-1307b,	
	DBP-1257b,	DBP-1358b,	
	DBP-1359b		
510(k) Number	K200649		K200939
Product Code	DXN		DXN
Regulation Number	21CFR870.1130		21CFR870.1130
Regulation Class	II		П

4) Description/Design of device:

The Electronic Sphygmomanometers, including X1, X2, X5, X6, X7, X8, X11, is suitable for measurement of systolic blood pressure, diastolic blood pressure and the pulse rate of adult person and adolescents 18 to 21 years old with arm circumference ranging from 22 cm to 42 cm by the oscillometric technique. The error is controlled within the range specified in IEC 80601-2-30 Non-invasive automated monitor. User can select the blood pressure unit mmHg or kPa. The initial inflation pressure of the cuff is zero pressure. When start the device, the cuff will be inflated and deflated.

The device consists of the microprocessor, pressure sensor, operation keys, pump, deflation control valve, LCD screen and cuff. And all models are powered by 4 AAA dry batteries (DC 6V).

The device has a memory function that automatically stores 2*99 sets data of the latest measurements. It can also display the latest measurement result. Additionally, the device also can read the data through voice broadcast function.

The seven models have the same intended use, working principle, measuring range, accuracy, cuff, and conformance standard; only appearance have some difference.

Materials

Component name	Material of Component	Body Contact Category	Contact Duration
Cuff	Nylon polyester	Surface skin contact	Less than 24 hours

We have directly purchased cuff from qualified supplier which has obtained Biocompatibility test reports. For details, please refer to "Biocompatibility Discussion".

5) Intended use / indications:

Electronic Sphygmomanometers is intended to measure the systolic and diastolic blood pressure as well as the pulse rate of adult person and adolescents age 18 through 21 years of age .It can be used at medical facilities or at home.

6) Technological characteristics and substantial equivalence:

Item	Proposed device	Predicate device	Reference device1	Reference device2	Remark
Trade name	Electronic Sphygmomanomete rs (Model:X1,X2,X5, X6,X7,X8,X11)	Upper Arm Blood Pressure Monitor (Model:ZK-B868, ZK-B869, ZK-B872, ZK-B876)	Arm-type Fully Automatic Digital Blood Pressure Monitor (Model: DBP-1307b, DBP-1318b, DBP-1319b, DBP-1332b, DBP-1333b, DBP-1337b, DBP-1359b, DBP-1359b)	Electronic Blood Pressure Monitor: YE620B, YE620D, YE660E, YE660F andYE680B	
510 (k) number	K221040	K191894	K200649	K200939	/
Manufactur er	Jiangxi AICARE Medical Technology Co., Ltd.	ShenZhen ZhengKang Technology Co., Ltd.	JOYTECH Healthcare Co., Ltd.	Jiangsu Yuyue Medical Equipment& Supply Co., Ltd	1
Regulation number	21 CFR 870.1130	21 CFR 870.1130	21 CFR 870.1130	21 CFR 870.1130	Same
Regulation description	Noninvasive blood pressure measurement system	Noninvasive blood pressure measurement system	Noninvasive blood pressure measurement system	Noninvasive blood pressure measurement system	Same
Product code	DXN	DXN	DXN	DXN	Same
Class	П	П	П	П	Same

Indications	Electronic	This Upper Arm	The Full Automatic	Electronic blood	Similar
for use/	Sphygmomanomete	Blood Pressure	Blood Pressure	pressure monitor is	Note 1
Intended use	rs is intended to	Monitor is intended to measure the	Monitors are intended to	intended to measure the blood	
usc	measure the	systolic and	measure blood	pressure and pulse	
	systolic and	diastolic blood	pressure (systolic	rate adult in	
	diastolic blood	pressure as well as	and diastolic) and	household or	
	pressure as well as	the pulse rate of	pulse rate of adults	medical facilities.	
	the pulse rate of	adult person. It can	and adolescents age	(Not suitable for	
	adult person and adolescents age 18	be used at medical	12 through 21 years	neonate, pregnancy	
	through 21 years of	facilities or at	of age.	or pre-eclampsia)	
	age .It can be used	home.			
	at medical facilities				
	or at home.				
Patient	Adult and 18	Adult	Adult and 12	Adult	Similar
population	through 21 years of		through 21 years of		Note 1
	age		age		
Location	OTC	OTC	OTC	OTC	Same
for use					
Environme	Medical facilities	Medical facilities	/	household or	Same
nt of use	or home	or home	Oscillometric	medical facilities	Come
Operation principle	Oscillometric	Oscillometric	Oscillometric	Oscillometric	Same
Measureme	Pressure: $0 \sim$	Pressure: $0 \sim$	Systolic	Pressure:0 \sim 300	Similar
nt rane	295mmHg, Pulse	295mmHg Pulse	Pressure:60mmHg	mmHg	
	Rate:	Rate: 40~195	~280 mmHg	Pules:40 ~	
	$(40 \sim 160)$ times	bpm	Diastolic Pressure:	200beats/min	
	per minute		$30 \text{ mmHg} \sim 200$ mmHg		
			Pulse:30 \sim 180		
			Beats/Minute		
Accuracy	Pressure:	Pressure:	Static Pressure:	Pressure:	Same
-	\pm 3mmHg(\pm	\pm 3mmHg(\pm	±3mmHg	\pm 3mmHg(\pm	
	0.4kPa), or 2% of	0.4kPa)	Pulse: ±5%	0.4kPa)	
	the reading	Pulse Rate: ±5%		Pulse Rate: $\pm 5\%$ of	
	Pulse Rate: ±5%			reading value	
Display screen	LCD	LCD	LCD	LCD	Same
Scale	mmHg/kPa	mmHg/kPa	mmHg	mmHg/kPa	Same
selection					

Cuff circumference 22cm-42cm 22cm-32cm Type A(22cm-32cm, 22cm-45cm optional) Note A(22cm-32cm, 22cm-45cm optional) Memory 2*99 sets / Up to 99x2 sets of data Sandata Power supply Battery:4AA batteries (DC 6V) or optional batteries (DC 6V)-(ZK-B868 OCA) (DC6V)-(ZK-B868 Cable(DV5V/500 mA) DBP-1318b, DBP-1358b, DBP-1 abtery or Medical AC adapter (DC 6V,600mA) (recom with USB mended, not AC adapter (DC 6V,600mA) (recom mended, not
Datteries (DC 6V) CZK-B868 Cable (DV5V/500 MA) Cable (DC 6V) CZK-B876 Cable (DV5V/500 MA) Cable (DC 6V) CZK-B876 Cable (DV5V/500 MA) Cable (DC 6V) CZK-B876 CAC CACCONDA (CACCONDA) CACC
power supply Battery:4AA Battery:4AA Batteries DBP-1318b, DBP-1358b,DBP-1 er with USB (DC6V)-(ZK-869/Z cable(DV5V/500 m A) C2*99 sets Poptional adapter with USB (DC6V)-(ZK-B876) mended, not poptional adapter with USB (DC6V)-(ZK-B876) mended, not poptional Type B A(22cm-32cm, 22cm-45cm optional) Power Battery:4AA Battery:4AA For models 4 AA batteries or 6V/600mA AC adapter (DC6V)-(ZK-B868 DBP-1318b, DBP-1358b,DBP-1 adater DBP-1358b,DBP-1 AC adapter (DC6V)-(ZK-B869/Z battery or Medical AC adapter (DC6V)-(ZK-B876) AC adapter (DC6V
Type B A(22cm-32cm, 22cm-45cm optional) Memory 2*99sets / Up to 99x2 sets of data Power supply batteries(DC 6V) or optional (DC6V)-(ZK-B868 DBP-1318b, or optional (DC6V)-(ZK-B868 DBP-1257b, adapt er with 4AAA batteries DBP-1358b,DBP-1 er with 4AAA batteries 359b:4×1.5V AAA battery or Medical cable(DV5V/500 K-872/ZK-B876) m A) Cadapter (DC 6V,600mA)(recom mended, not
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Power supply Battery:4AAA Battery:4AA For models 4 AA batteries or supply batteries(DC 6V) batteries DBP-1318b, 6V/600mA AC or optional (DC6V)-(ZK-B868 DBP-1257b, adater adapt or with 4AAA batteries 359b:4×1.5V AAA battery or Medical cable(DV5V/500 K-872/ZK-B876) AC adapter (DC or optional adapter with USB mended, not
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USB (DC6V)-(ZK-869/Z battery or Medical cable(DV5V/500 K-872/ZK-B876) AC adapter (DC or optional adapter with USB mended, not
cable(DV5V/500 K-872/ZK-B876) AC adapter (DC or optional adapter with USB mended, not
m A) or optional adapter with USB of with use of with
with USB mended, not
cable(DV5V/500m Provided); For
A) other models:4 \times
1.5V AA battery or
Medical AC
adapter (DC
6V,600mA)(recom
mended
Operating Temperature:+5 $\mathcal C$ Temperature:+5 $\mathcal C$ Temp.: +10 $\mathcal C$ Temperature:+5 $\mathcal C$ Sin
Environme nt \sim +40 C ; \sim +40 C ; \sim +40 C ;
Humidity:15
80%RH 93%RH 90%RH
~ 90%RH Atmospheric:700hP
Atmospheric a ~1060hPa
pressure: 70 kpa ~
106 kpa
Storage Temperature:-25 $^{\circ}$ Temperature:-20 $^{\circ}$ Temp.: -25 $^{\circ}$ Temperature:-20 $^{\circ}$ Sin
Environme nt $\sim +55 C$; $\sim +55 C$; $+55 C$ $\sim +55 C$;
Humidity:10 \sim Humidity: \leq Humidity:15 \sim
93%RH 90%RH 90%RH(no
~ 95%RH condensation)
Type of Non-transmission Non-transmission Bluetooth / Sar
transmissio n
Complianc ANSI AAMI IEC 60601-1; AAMI/ANSI ES IEC 60601-1; San

	60601-1;				
voluntary	IEC 60601-1-2;	IEC 60601-1-11;	IEC	IEC60601-1-6;	
standards	IEC 60601-1-11;	IEC 80601-2-30;	80601-2-30:2009	IEC60601-1-11;	
	IEC 80601-2-30;	ISO 10993-1,-5,10;	IEC 60601-1-11	ANSI AAM	
	ISO 10993-1,-5,10;	ISO 81060-2	IEC 60601-1-2	IEC80601-2-30;	
	ISO 81060-2		EN 300328	ISO 81060-2	
			EISI EN 301489-1		
			EISI EN 301489-17		

Comparison in details:

Note 1: Although the patient population is a little different between the proposed and predicate device, but it's within the scope of Reference device 1, the difference is insignificant and do not affect safety and effectiveness. And the proposed device has been validated to be in conformity with its claimed range.

Note 2: Although the Cuff circumference is a little different between the proposed and predicate device, but it's within the scope of Reference device 2, the difference is insignificant and do not affect safety and effectiveness. And the proposed device has been validated to be in conformity with its claimed range

Conclusion:

Electronic Sphygmomanometers is substantially equivalent to the predicate device.

7) Test summary:

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

Non-Clinical Study:

Non-clinical tests were conducted to verify that the proposed device meets the same design specifications which supports the conclusion that it's Substantially Equivalent (SE) to the predicate device. The testing results demonstrate that the proposed device complies with the following standards:

Electrical and EMC Safety:

The electrical safety and EMC safety testing was performed as per the following standards and passed:

- ANSI AAMI ES 60601-1, Medical electrical equipment -- Part 1: General requirements for basic safety and essential performance
- IEC 60601-1-2, Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance Collateral standard: Electromagnetic disturbances Requirements and tests
- IEC 60601-1-11, Medical electrical equipment -- Part 1-11: General requirements

for basic safety and essential performance -- Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment

Performance Data:

The performance testing was performed as per the following standards and passed:

- IEC 80601-2-30, Medical electrical equipment Part 2-30: Particular requirements for the basic safety and essential performance of automated noninvasive sphygmomanometers
- ISO 81060-2, Non-invasive sphygmomanometers Part 2: clinical validation of automated measurement type [Including: Amendment 1(2020)]
- FDA Guidance No-Invasive Blood Pressure (NIBP) Monitor Guidance

Software:

We have also conducted Software verification and validation test according to the requirements of the FDA "Guidance for Pre Market Submissions and for Software Contained in Medical Devices".

Biocompatibility Testing:

The biocompatibility evaluating for the body-contacting component (arm cuff) of this device was conducted in accordance with the "Use of International Standard ISO 10933-1, Biological Evaluation of Medical Device – Part 1: Evaluation and Testing Within a Risk Management Process", as recongnized by FDA. The arm cuff has performed and passed the Biocompatibility test. So we have reason to believe that the arm cuff is safe for the users. The arm cuff complies with the following standards:

- ISO 10993-5, Biological Evaluation of Medical Devices Part 5: Tests for InVitro Cytotoxicity
- ISO 10993-10, Biological Evaluation of Medical Devices Part 10: Tests for Irritation and Skin Sensitization.

Clinical Study:

We conducted a comparative clinical study to verify the performance of the proposed device and predicate device as well as a mercury sphygmomanometer according to ISO 81060-2. The study demonstrated a significant correlation in the performance of proposed device and predicate device. The design of the proposed device specifications is substantially the same as the predicate.

All the labeling and characteristics of the Electronic Sphygmomanometers are the same as the predicate device, and most normal blood pressure monitors currently on the market. The proposed device and predicate device both use similar measuring methodologies and components to achieve the measurements.

8) Conclusion

Based on the above analysis and non-clinical/clinical tests performed, it can be concluded that the proposed device Electronic Sphygmomanometers is as safe, as effective, and performs as well as the legally marketed predicate device, K191894, Upper Arm Blood Pressure Monitor Model: ZK-B868, ZK-B869, ZK-B872, ZK-B876.