

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

April 18, 2016

Beijing Choice Electronic Technology Co., Ltd. Lei Chen Quality Director North Building 3F, No.9 Shuangyuan Road Badachu Hi-tech Zone, Shijingshan District Beijing, China 100041

Re: K152563

Trade/Device Name: Pulse Oximeter (MD300M, MD300K2)

Regulation Number: 21 CFR 870.2700

Regulation Name: Oximeter Regulatory Class: Class II Product Code: DQA Dated: March 7, 2016 Received: March 11, 2016

Dear Mr. Lei Chen:

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. 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); good manufacturing practice requirements as set forth in

the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. 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

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Tejashri Purohit-Sheth, M.D.

Tejashri Purohit-Sheth, M.D.
Clinical Deputy Director
DAGRID/ODE/CDRH FOR

Erin I. Keith, M.S.
Director
Division of Anesthesiology,
General Hospital, Respiratory,
Infection Control and Dental Devices
Office of Device Evaluation
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: January 31, 2017 See PRA Statement below.

K152563
Device Name Pulse Oximeter
Indications for Use (Describe) The Pulse Oximeter is intended for continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single adult, adolescent, child and infant patients in hospitals and clinics.
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.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

> Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"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."

Section III 510(k) Summary

This summary of 510(k) is being submitted in accordance with the requirements of 21 CFR 807.92.

There is no prior submission for the device.

3.1 Submitter Information

• Manufacturer Name:

Establishment Registration Number: 3005569927 Beijing Choice Electronic Technology Co., Ltd. Room 4104,No.A12 Yuquan Road Haidian District 100143 Beijing, P.R.China

• Contact Person:

Mr. Lei Chen

Beijing Choice Electronic Technology Co., Ltd. North Building 3F, No. 9 Shuangyuan Road, Badachu Hi-tech Zone, Shijingshan District

Beijing China 100041

Phone: +86-10-88798300 Ext 6020

Fax:215-4052545

Email: cc@choicemmed.com

• Date prepared: March 17, 2016

3.2Proposed Device Information

Device Common Name: Pulse Oximeter

Device Trade/Proprietary Name: Pulse Oximeter

Model: MD300M, MD300K2 Classification Name: Oximeter Regulation Number: 870.2700

Product Code: DQA

Class: ∏

Panel: Anesthesiology

3.3Predicate Device

510(k) Number: K090599

Common Name: Pulse Oximeter

Device Trade/Proprietary Name: Pulse Oximeter

Model: MD300K1

Classification Name: Oximeter

Product Code: DQA

Regulation Number: 870.2700

Device Class: I

Panel: Anesthesiology

Manufacturer: Beijing Choice Electronic Technology Co., Ltd.

Intended Use: MD300K1 Pulse Oximeter is intended for continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single

adult and pediatric patients in hospitals and home care.

3.4Device Description

The Pulse Oximeter MD300M/MD300K2 can display the SpO2%, pulse rate, Pulse Amplitude Index and other indication parameters, such as time, ID number, pulse amplitude bar and battery power status, alarm limits and the connections of sensors. It is used for adult, adolescent, child and infant patients. The device has physiological alarm and technology alarm function. There are two-level alarm priorities in oximeter. High priority: "Di-Di-Di-Di-Di-Di" indicates the patient is in the very dangerous situation. Low priority: "Di" indicates the technical alarm caused by the device itself. The device also has visual alarm function to indicate users by lamp and information on the device. The power supply of the applicant device is 3 AA alkaline batteries, rechargeable batteries or adapter.

The proposed device consists of photo detector, display screen, signal amplify unit, CPU, display unit and power supply unit.

Principle of the oximeter is as follows: A mathematic formula is established making use of Lambert Beer Law according to Spectrum Absorption Characteristics of Reductive hemoglobin (RHb) and Oxyhemoglobin (HbO2) in red and near-infrared zones. Operation principle of the instrument: Photoeletric Oxyhemoglobin Inspection Technology is adopted in accordance with Capacity Pulse Scanning and Recording Technology, so that two beams of different wavelength of lights (660nm red and 905nm near infrared light) can be focused on a human nail tip through a clamping finger-type sensor. A measured signal obtained by a photosensitive element, will be shown on the oximeter's display through process in electronic circuits and microprocessor.

The proposed device is not for life-supporting or life-sustaining, not for implant.

The device is not sterile and the transducers are reusable and do not need sterilization and re-sterilization.

The device is for prescription.

The device does not contain drug or biological products.

The device is software-driven and the software validation is provided in *software*.

3.5 Comparison list of the technological characteristics

Table 3-1 Performance Specification Comparison Table between the Proposed Device (MD300M) and Predicate Device

Comparison Elements	Proposed Device	Predicate Device
Product Name	Pulse Oximeter	Pulse Oximeter
Model	MD300M	MD300K1
Regulation No.	21 CFR 870.2700	21 CFR 870.2700
Classification	П	П
Classification Name	Oximeter	Oximeter
Product Code	DQA	DQA
Indications for Use	The MD300M pulse oximeter is intended for continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single adult, adolescent, child and infant patients in hospitals and clinics.	continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single adult and pediatric patients in hospitals and home care.
Comparison Statement	The proposed device and the predicated classification. The only difference is that the care environment while the predicated device	
Components	Photo detector, display screen, signal amplify unit, CPU, display unit and power unit.	Photo detector, display screen, signal amplify unit, CPU, display unit and power unit.
Design Principle	Principle of the oximeter is as follows: A mathematic formula is established making use	The MD300K1 Pulse Oximeter works by applying a sensor to a pulsating arteriolar

		of Lambert Beer Law according to Spectrum	vascular bed. The sensor contains a dual light
		Absorption Characteristics of Reductive	source and photo detector. The one wavelength
		1	
		hemoglobin (RHb) and Oxyhemoglobin	of light source is 660nm, which is red light; the
		(HbO2) in red and near-infrared zones.	other is 940nm, which is ultra red light. Skin,
		Operation principle of the instrument:	bone, tissue, and venous normally absorb a
		Photoeletric Oxyhemoglobin Inspection	constant amount of light during systole and
		Technology is adopted in accordance with	diastole, as blood volume increases and
		Capacity Pulse Scanning and Recording	decreases. The ratio of light absorbed at systole
		Technology, so that two beams of different	and diastole is translated into an oxygen
		wavelength of lights (660nm red and 905nm	saturation measurement. This measurement is
		near infrared light) can be focused on a human	referred to as SpO2.
		nail tip through a clamping finger-type sensor.	•
		A measured signal obtained by a	
		photosensitive element, will be shown on the	
		oximeter's display through process in	
		electronic circuits and microprocessor.	
		crectionic eneutrs and interoprocessor.	
Measurement	Red	660±3nm	660 nanometers
Wavelength	Infrared	905±8nm	940 nanometers
Comparison Stat	ement	The proposed device and the predicate device	ce have the same design principle and similar
Jonipul Buil	measurement wavelength.		The same design principle and similar
		mount of the total bank	
Display Type		TFT (colorized)	OLED
Display Type		TTT (COTOTIZED)	
	Dattami	3*AA alkaline batteries, rechargeable	2*AA alkaline batteries
	Battery	batteries or adapter	2 Til alkaline batteries

Tremarket Notification 210(K) Bublinission Section 111 210(K) Building						
	Power adapter	5V 2A	Not available			
	SpO2 display range	0%~100%	0~100%			
	SpO2 measurement range	0~100%	0~100%			
	SpO2 accuracy	70%~100%, $\pm 2\%$; 0~69% no definition	70%~100%, ±3%; 0~69% no definition			
	PR display range	0~250bpm	0~235bpm			
ification	PR measurement range	30~250bpm	30~235bpm			
Performance Specification	PR accuracy	30bpm~99bpm, ±2bpm 100bpm~250bpm, ±2%	30bpm~99bpm, ±2bpm 100bpm~235bpm, ±2%			
	PR Resolution	1%	1%			
	Pulse amplitude index measurement range	0.1%~20%				
	Operating temperature	0°℃~40°℃	5℃~40℃			
	Relative humidity	≤80% no condensation in operation; ≤93% no condensation in storage	≤80% no condensation in operation; ≤93% no condensation in storage			
	Atmosphere pressure	86kPa~106kpa	86kPa~106kpa			

		Alarm type Alarm limit range		Audio type, visual alarm and information SpO2 70%~100% PR 30bpm~250bpm	Audio type, visual alarm and information SpO2 70%~100% PR 30bpm~235bpm
	Default SpO2 High 100%, Low 90% Limit PR High 100bpm, Low 60bpm		High 99%, Low 90% High 100bpm, Low 60bpm		
Comp	arison Sta	tement		The proposed device has similar product spe	cification as predicate device.
		Battery Co	over	ABS	ABS
		Plastic Ca	se Cover		
	ntacting aterial	Fingertip Cushion		Medical Silicone Gel (Finger probe M-50E012CS09, M-50B008CS09)	Medical Silicone Gel (Finger probe M-50 series)
		Fingertip	Cushion	Microfoam (Finger probe M-50J033CS045)	N/A
Comparison Statement				device are similar to those of the predicate aterial of MD300M supporting finger probe not available to the predicate device.	
Laboratory Testing Clinical Testing			The laboratory tests include SpO2 and PR accuracy Test, Weak Perfusion Test, High and Low Temperature and Humidity Test, Performance Test After Cleaning and ISO80601-2-61 Conformed to ISO9919&ISO 80601-2-61	_	
Clinical Testing			Conformed to 1809919&180 80001-2-61	Conformed to 18O9919	

		Clinical Test for the conducted in Yue Bei pe	•	
		clinical test report and p		
		in Performance Testing-C	-	
Electrical	Electrical Safety	Conformed to IEC60601-	1, IEC 60601-1-8	Conformed to IEC60601-1
Elec	Electromagnetic Compatibility	Conformed to IEC60601-	1-2	Conformed to IEC60601-1-2
and				
EMC Safety				
	Software	Moderate level of concern	n	Moderate level of concern
		Compliance with FDA content of Premarket Software Contained in M	Submissions for	Compliance with FDA Guidance for the content of Premarket Submissions for Software Contained in Medical Devices
Risk Management in Compliance with ISO14971:2007			Risk Management in Compliance with ISO14971:2007	
Bioco mpati	Microfoam	In Vitro Cytotoxicity	No cytotoxic potential	N/A

	Animal skin irritation	No evidence of	
	test	significant irritation	
		from the test extract	
		to rabbits	
	Skin Sensitization Test	No evidence of	
		sensitization was	
		observed.	
Comparison Statement	Compliance with ISO10	993	
Label and Labeling	Compliance with the	Guidance of pulse	Compliance with FDA guidance
	oximeter-premarket not	ification issued on	
	March 4,2013		

Table 3-2 Performance Specification Comparison Table between the Proposed Device (MD300K2) and Predicate Device

Comparison Elements	Proposed Device	Predicate Device
Product Name	Pulse Oximeter	Pulse Oximeter
Model	MD300K2	MD300K1
Regulation No.	21 CFR 870.2700	21 CFR 870.2700
Classification	П	П
Classification Name	Oximeter	Oximeter
Product Code	DQA	DQA
Indications for Use	The MD300K2 pulse oximeter is intended for continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single adult, adolescent, child and infant patients in hospitals and clinics.	MD300K1 Pulse Oximeter is intended for continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single adult and pediatric patients in hospitals and home care.

Compari	ison Statement	The proposed device and the predicated device have the similar intended use and classification. The only difference is that the proposed device cannot be used in the home care environment while the predicated device can be used in the home care environment.				
Components		Photo detector, display screen, signal amplify unit, CPU, display unit and power unit.	Photo detector, display screen, signal amplify unit, CPU, display unit and power unit.			
Design Principle		Principle of the oximeter is as follows: A mathematic formula is established making use of Lambert Beer Law according to Spectrum Absorption Characteristics of Reductive hemoglobin (RHb) and Oxyhemoglobin (HbO2) in red and near-infrared zones. Operation principle of the instrument: Photoeletric Oxyhemoglobin Inspection Technology is adopted in accordance with Capacity Pulse Scanning and Recording Technology, so that two beams of different wavelength of lights (660nm red and 905nm near infrared light) can be focused on a human nail tip through a clamping finger-type sensor. A measured signal obtained by a photosensitive element, will be shown on the oximeter's display through process in electronic circuits and microprocessor.	The MD300K1 Pulse Oximeter works by applying a sensor to a pulsating arteriolar vascular bed. The sensor contains a dual light source and photo detector. The one wavelength of light source is 660nm, which is red light; the other is 940nm, which is ultra red light. Skin, bone, tissue, and venous normally absorb a constant amount of light during systole and diastole, as blood volume increases and decreases. The ratio of light absorbed at systole and diastole is translated into an oxygen saturation measurement. This measurement is referred to as SpO2.			
Measurement	Red	660±3nm	660 nm			
Wavelength	Infrared	905±10nm	940 nm			

Comparison Statement		The proposed device and the predicate device have the same design principle and similar measurement wavelength.		
	Display Type	TFT (colorized)	OLED	
	Battery	3*AA alkaline batteries, rechargeable batteries or adapter	2*AA alkaline batteries	
	Power adapter	5V 2A	Not available	
	SpO2 Display Range	0~100%	0~100%	
	SpO2 Measurement Range	0~100%	0~100%	
ation	SpO2 Accuracy	70%~100%, $\pm 2\%$; 0~69% no definition	70%~100%, $\pm 3\%$; 0~69% no definition	
cific	SpO2 resolution	1%	1%	
e Spe	PR Display Range	0~250bpm	0~235bpm	
Performance Specification	PR Measurement Range 30bp	30bpm~250bpm	30bpm~235bpm	
Perf	PR Accuracy	30bpm~99bpm, ±2bpm; 100bpm~250bpm, ±2%	30bpm~99bpm, ±2bpm; 100bpm~235bpm, ±2%	
	PR Resolution	1%	1%	
	Pulse amplitude index display range	0.1%~20%		

	Operating Temperature Relative Humidity		0°C~40°C		5°C~40°C	
				≤80% no condensation in operation; ≤93% no condensation in storage		≤80% no condensation in operation; ≤93% no condensation in storage
	Atmosph	nere Pressure	86kP	a~106kpa		86kPa~106kpa
	Ala	rm type	Audio type, visual ala	rm and information		Audio type, visual alarm and information
	Alarm limit range		1	70%~100% bpm~250bpm		SpO2 70%~100% PR 30bpm~235bpm
	Default SpO2		High 100%, Low 95%		High 99%, Low 90%	
	Limits	PR	High 100b	om, Low 60bpm		High 100bpm, Low 60bpm
Comp	arison State	ment	The proposed device has similar product specification as predicate device.			
	Battery	Cover		ABS		ABS
Contacting	Plastic Case Cover			ADS		Abs
Material	Fingertip	Cushion	Medical Silicone M-50E012CS09, M-5	Gel(Finger 0B008CS09)	probe	Medical Silicone Gel(M-50 series)
	Fingertip Cushion		Microfoam(Finger pr	Microfoam(Finger probe M-50J033CS045)		N/A
Comparison Statement		device. The only o	lifference is that th	e matei	evice are similar to those of the predicate rial of MD300K2 supporting finger probe is not available to the predicate device.	

Performance Testing	Laboratory Testing	The laboratory tests in accuracy Test, Weak Per Low Temperature at Performance Test A ISO8060	rfusion Test, High and nd Humidity Test, fter Cleaning and	Meet the requirements of FDA Guidance
	Electrical Safety	Conformed to IEC606	01-1, IEC 60601-1-8	Conformed to IEC60601-1
EMC and Electrical Safe	Electromagnetic Compatibility	Conformed to I	EC60601-1-2	Conformed to IEC60601-1-2
Software		Moderate level of concern		Moderate level of concern
		Compliance with FDA Guidance for the content of Premarket Submissions for Software Contained in Medical Devices		Compliance with FDA Guidance for the content of Premarket Submissions for Software Contained in Medical Devices
		Risk Management in ISO1497		Risk Management in Compliance with ISO14971:2007
ibilit	Microfoam	In Vitro Cytotoxicity	No cytotoxic potential	N/A
Biocompatibilit y		Animal skin irritation test	No evidence of significant irritation from the test extract to rabbits	

	Skin Sensitization Test	No evidence of sensitization was observed.	
Comparison Statement	Compliance with ISO10993		
	Compliance with the	Guidance of pulse	
Label and Labeling	oximeter-premarket notification issued on		Compliance with FDA guidance
	March 4,2013		

3.6Intended use

The MD300M/MD300K2 pulse oximeter is intended for continuous monitoring, spot-checking of functional pulse oxygen saturation (SpO2) and pulse rate (PR) of single adult, adolescent, child and infant patients in hospitals and clinics.

3.7 Functional and Safety Testing:

Non-Clinical Test

The Pulse Oximeter MD300M/MD300K2 is designed and tested and will be manufactured in accordance with both mandatory and voluntary standards, including:

IEC 60601-1:2005/AC:2012 Medical electrical equipment-Part 1: General requirements for basic safety and essential performance

IEC 60601-1-2:2007 Medical electrical equipment- Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests

IEC 60601-1-8:2012 Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems.

ISO 80601-2-61:2011 Medical electrical equipment – Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment.

The Software Validation is in compliance with FDA Guidance to Compliance with FDA Guidance for the Content of Premarket Submissions for Software Contained in Medical Devices.

The compatibility of the skin-contact component material in the finished product meets the requirement of Biocompatibility. The Biological Evaluation Tests are in compliance with the standards of ISO10993. "Biological Evaluation of Medical Devices".

The list of non-clinical test performed on the proposed device is shown as following:

No.	Test Name	
1	System Performance Test	
2	Shelf Life Test	
3	Performance Test after Cleaning	
4	Performance Test according to ISO 80601-2-61	
5	Electromagnetic Compatibility Test According to IEC 60601-1-2	
6	Electrical Safety Test According to IEC 60601-1	

7	Alarm System Tests According to IEC60601-1-8	
8	Irritation ,Sensitization and Cytotoxicity Test according to ISO 10993	

Clinical Test

The Clinical Test was conducted following the testing described in clause 201.12.1 of ISO 80601-2-61:2011 Medical electrical equipment- Part 2-61 Particular requirements for basic safety and essential performance of pulse oximeter equipment.

The supporting Oximeter probes of Pulse Oximeter MD300M are adult finger probe M-50E012CS09, pediatric finger probe M-50B008CS09, single use probe M-50J033CS045. The clinical study of MD300M was conducted with its supporting finger probe respectively.

The Clinical Test of MD300M was conducted in Yue Bei people's Hospital. The clinical s study report was presented in *Performance Testing-Clinical Test Report*.

Subjects information:

12 healthy adult volunteer subjects (6 females and 6 males ages 21-43yr, 47-82kg, 155-185cm, among which 6 with light pigmentation from Asian, 3 with light (white) pigmentation from Caucasian, 3 with dark pigmentation from African) were included in the study connected Sep. 20-22, 2014 to evaluate the SpO2 accuracy performance of the MD300M Pulse Oximeter and its supporting M-50E012CS09/M-50B008CS09/M-50J033CS045 Oximeter Probe.

Results:

The SpO2 accuracy performance results showed the MD300M Pulse Oximeter and its supporting M-50E012CS09 Oximeter probe to have an Arms of 1.75 during steady state conditions over the range of 70-100%.

The SpO2 accuracy performance results showed the MD300M Pulse Oximeter and its supporting M-50B008CS09 Oximeter probe to have an Arms of 1.48 during steady state conditions over the range of 70-100%.

The SpO2 accuracy performance results showed the MD300M Pulse Oximeter and its supporting M-50J033CS045 Oximeter probe to have an Arms of 1.75 during steady state conditions over the range of 70-100%.

Conclusion:

The results of the study provide supporting evidence that the pulse oximeter MD300M with its supporting finger probes was compliance to the accuracy specification claimed by the manufacturer.

The proposed device MD300K2 and MD300M have similar hardware and software design. They have same contain identical materials, electro-optical component, SpO2 module,

same supporting finger probes and have equivalent sensor characteristics. The main difference between them is the appearance design (enclosure). So we think MD300M clinical study results can be to support clearance of the proposed device of MD300K2.

The clinical statement was presented in *Performance Testing-Clinical Statement*.

3.8Determination of substantial equivalence

The proposed device of Pulse Oximeter MD300M/MD300K2 has the same classification information, similar intended use, same design principle, similar product design and specifications as the predicated device. The differences exist in display screen, SpO2 accuracy and PR display range. The main difference is that the proposed device cannot be used in the homecare environment while the predicated device can be used in the home care environment. The differences are slight and do not influence the effectiveness and safety of the device. According to the laboratory and clinical test results, the proposed device is as safe and as effective as the predicate device. So the proposed device is Substantially Equivalent (SE) to the predicate device which is US legally market device.