



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
10903 New Hampshire Avenue
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Silver Spring, MD 20993-0002

October 29, 2015

Shenzhen Vistar Medical Supplies Co., Ltd.
Mr. Ray Wang
Official Correspondent
1-202, Build 3, Beijing New World, No.5 Chaoyang Rd.,
Chaoyang District
Beijing, 100024 CN

Re: K152465
Trade/Device Name: Disposable Blood Pressure Cuff
Regulation Number: 21 CFR 870.1120
Regulation Name: Blood Pressure Cuff
Regulatory Class: Class II
Product Code: DXQ
Dated: August 25, 2015
Received: August 31, 2015

Dear Mr. Ray 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. 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); 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,

A handwritten signature in black ink, appearing to read "Bram D. Zuckerman", is written over a faint, light-colored background logo that resembles the FDA seal.

for Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)
K152465

Device Name
Disposable Blood Pressure 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 neonatal, pediatric and adult sizes.

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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K152465

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510(k) Summary

This 510(k) Summary of 510(k) safety and effectiveness information is being submitted in accordance with requirements of SMDA 1990 and Title 21, CFR Section 807.92.

The assigned 510(k) Number: _____

1. Date of Preparation: 2015/8/26
2. Sponsor Identification

Shenzhen Vistar Medical Supplies Co., Ltd.

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Establishment Registration Number: Pending

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3. Designated Submission Correspondent

Mr. Ray Wang

Beijing Believe Tech. Service Co., Ltd

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Fax: +86-21-68093116

Email: Ray.Wang@believe-med.com

4. Identification of Proposed Device

Trade Name: Disposable Blood Pressure Cuff

Common Name: Blood Pressure Cuff

Model(s):

V1011N,V1012N,V1013N,V1014N,V1015N,V1011C,V1012C,V1013C,V1014C,V1014C-L,V1015C, V1015C-L,V1016C;

V1021N,V1022N,V1023N,V1024N,V1025N,V1021C,V1022C,V1023C,V1024C,V1024C-L,V1025C, V1025C-L,V1026C;

Regulatory Information

Classification Name: Blood Pressure Cuff

Classification: 2

Product Code: DXQ

Regulation Number: 870.1120

Review Panel: Cardiovascular

Indication For Use Statement:

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 neonatal, pediatric and adult sizes.

Device Description

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

The proposed device is disposable blood pressure cuff, which contains Cuff with bladder and Air Hose. Air hose has single tube and double tube.

During the operation process, the integrated inflatable bladder will wrapped around the patient's limb and secured by hook and loop closure, and the air hose will connected to the noninvasive blood pressure measurement systems.

The disposable blood pressure cuff is single use device, and which is made of non-woven fabrics & PVC (Cuff) and PVC (Air Hose), thereinto, the non-woven fabrics & PVC (Cuff) is the material used to contacting with the patient.

The disposable blood pressure cuff has 26 models with different size for different population with different arm size, and the 13 models of 26 are use single tube of air hose and other 13 models are use double tube of air hose, which is used for different noninvasive blood pressure measurement system.

The disposable blood pressure cuff is provided as non-sterile.

5. Identification of Predicate Device(s)

Predicate Device

K151290

Disposable/Reusable Blood Pressure Cuff

Xuzhou Maicuff Technology Co., Ltd.

6. Non-Clinical Test Conclusion

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

- ISO 10993-5: 2009 Biological Evaluation Of Medical Devices -- Part 5: Tests For In Vitro Cytotoxicity
- ISO 10993-10: 2010 Biological Evaluation Of Medical Devices - Part 10: Tests For Irritation And Skin Sensitization.
- ISO 81060-1:2012 Non-Invasive Sphygmomanometers - Part 1: Requirements And Test Methods For Non-Automated Measurement Type

7. Clinical Test Conclusion

No clinical study is included in this submission.

8. Substantially Equivalent (SE) Comparison

Table 1 General Comparison

ITEM	Proposed Device (Disposable Blood Pressure Cuff)	Predicate Device (K151290)	Remark
Intended 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 neonatal, pediatric and adult sizes.	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 neonatal, pediatric and adult sizes.	SE
Patient Populations	Adults/Pediatrics	Adults/Pediatrics	
Tube Configuration	One or two tube	One or two tube	SE
Principles of Operation	Bladder is wrapped around the patient's limb and secured by hook and loop closure Air hose is connected to the noninvasive blood pressure measurement systems	Bladder is wrapped around the patient's limb and secured by hook and loop closure Air hose is connected to the noninvasive blood pressure measurement systems	SE
Size	Conform to AHA bladder sizes recommendations Neonatal 1 (3-6 cm) Neonatal 2 (4-8 cm) Neonatal 3 (6-11 cm) Neonatal 4 (7-13 cm) Neonatal 5 (8-15 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 cm) Large Adult(35.5-46 cm) Large Adult (35.5 – 46 cm) Thigh (45 – 56.5 cm)	Conform to AHA bladder sizes recommendations Neonatal 1 (3-5.5 cm) Neonatal 2 (4-8 cm) Neonatal 3 (6-11 cm) Neonatal 4 (7-13 cm) Infant (9-14.5 cm) Pediatric (13-21.5 cm) Small Adult (21-27 cm) Adult (26-35.5 cm) Large Adult(35-45 cm)	Analysis 1
Single Use	Y	Y	SE
Sterile	No	No	SE
Pressure Range	0-300 mmHg	0-300 mmHg	SE
Max. Pressure	400 mmHg	>350 mmHg	SE
Tubing Size(mm)	OD = 8.0; ID=4.0; L=200;	OD = 8.0; ID=4.0; L=200;	SE

Max. Leakage	< 4mm Hg/ min.	< 4mm Hg/ min.	SE
Material	non-woven fabrics & PVC (Cuff) and PVC (Air Hose)	non-woven fabrics & PVC (Cuff) and PVC (Air Hose)	SE

Analysis 1:

The proposed device has similar size and more size specifications than predicate device, the more size specifications are intended for more clinical situations with different patient arm circumference, the proposed device are conducted the ISO 81060-1 for the performance and Biocompatibility test as ISO 10993-1 for safety, so we consider that this difference do not affect the SE with the predicate device.

Table 2 Biocompatibility Comparison

ITEM	Proposed Device	Predicate Device	Remark
Cytotoxicity	Under the conditions of the study, not cyteotoxicity effect	Comply with ISO 10993-5	SE
Irritation	Under the conditions of the study, not an irritant	Comply with ISO 10993-10	SE
Sensitization	Under conditions of the study, not a sensitizer.		SE

9. Substantially Equivalent (SE) Conclusion

Based on the comparison and analysis above, the proposed devices are determined to be Substantially Equivalent (SE) to the predicate devices.