



July 1, 2024

Hetaida Technology Co., Ltd.
Tom Chen
General Manager
Rm 801, 802, 803, 804, 901, 2# Bldg Scientific Research Ctr
Songhu Intelligent Valley, No.6 Minfu Road, Liaobu Town
Dongguan, Guangdong 523423
China

Re: K241202

Trade/Device Name: Electric nasal aspirator (HTD2601US, H2609AU)
Regulation Number: 21 CFR 878.4780
Regulation Name: Powered Suction Pump
Regulatory Class: Class II
Product Code: BTA
Dated: April 19, 2024
Received: April 30, 2024

Dear Tom 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 (the 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 available 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.

Additional information about changes that may require a new premarket notification are provided in the FDA guidance documents entitled "Deciding When to Submit a 510(k) for a Change to an Existing Device" (<https://www.fda.gov/media/99812/download>) and "Deciding When to Submit a 510(k) for a Software Change to an Existing Device" (<https://www.fda.gov/media/99785/download>).

Your device is also subject to, among other requirements, the Quality System (QS) regulation (21 CFR Part 820), which includes, but is not limited to, 21 CFR 820.30, Design controls; 21 CFR 820.90, Nonconforming product; and 21 CFR 820.100, Corrective and preventive action. Please note that regardless of whether a change requires premarket review, the QS regulation requires device manufacturers to review and approve changes to device design and production (21 CFR 820.30 and 21 CFR 820.70) and document changes and approvals in the device master record (21 CFR 820.181).

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 Part 803) for devices or postmarketing safety reporting (21 CFR Part 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 Part 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR Parts 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 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,

Shuchen Peng -S

Shu-Chen Peng, Ph.D.

Assistant Director

DHT1B: Division of Dental and ENT Devices

OHT1: Office of Ophthalmic, Anesthesia,

Respiratory, ENT and Dental Devices

Office of Product Evaluation and Quality

Center for Devices and Radiological Health

Enclosure

Indications for Use

Submission Number (if known)

K241202

Device Name

Electric nasal aspirator (HTD2601US, H2609AU)

Indications for Use (Describe)

The Electronic Nasal Aspirator is intended for intermittent removal of nasal secretions and mucus from children (age 2-12 years old). This device is used in a home environment.

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
PRASStaff@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."

510(k) Summary

[As required by 21 CFR 807.92]

1. Submission Information

510(k) Number: K241202
Date: April 19th, 2024
Type of 510(k) Submission: Traditional 510(k)
Basis for 510(k) Submission: New device
Submitter/Manufacturer: Hetaida Technology Co., Ltd.
Room 801, 802, 803, 804, 901, 2# Building Scientific Research Center,
Songhu Intelligent Valley, No.6 Minfu Road, Liaobu Town, Dongguan
City, Guangdong Province, P.R.China
Tel: +86-0769-83326886
E-mail: tomchen@hetaida.com.cn
Contactor: Tom Chen
Hetaida Technology Co., Ltd.
Room 801, 802, 803, 804, 901, 2# Building Scientific Research Center,
Songhu Intelligent Valley, No.6 Minfu Road, Liaobu Town, Dongguan
City, Guangdong Province, P.R.China
E-mail: tomchen@hetaida.com.cn
Tel: +86-0769-83326886

2. Device Description

Proprietary Name: Electric nasal aspirator
Model Name: HTD2601US, H2609AU
Classification Name: Pump, Portable, Aspiration (Manual Or Powered)
Product Code: BTA
Device Class: 2
Regulation Number: 21 CFR § 878.4780
Review Panel: General & Plastic Surgery
Indications for use: The Electronic Nasal Aspirator is intended for intermittent removal of nasal secretions and mucus from children (age 2-12 years old). This device is used in a home environment.
Device Description: Electric nasal aspirator consists of main unit, and the suction portion working together as one unit. The Electronic Nasal Aspirator is a portable device which is intended for suction of nasal passages in children 2-12 years of age. The motor pump provides a negative pressure which removes nasal secretions. The motor pump operates on a rechargeable battery. The rechargeable battery can be charged from the external power adapter (not included in this device) through the provided charging line. The user interface consists of buttons and LED display, and the user can control the vacuum pressure through the button.

3. Predicate Device Identification

510(k) Number: K222547
Product Name: Electric nasal aspirator
Submitter: Shenzhen XinLianFeng Technology CO.,LTD

4. Discussion of Non-Clinical Tests Performed for Determination of Substantial Equivalence are as follows:

4.1 Non-clinical testing

A series of safety and performance tests were conducted on the subject device.

- Product service life
- Software validation
- Electromagnetic compatibility and electrical safety
- Usability
- Function test
- Biocompatibility test

All the test results demonstrate Electric nasal aspirator meets the requirements of its predefined acceptance criteria and intended use, and it is substantially equivalent to the predicate devices.

4.2 Clinical Testing

No clinical test data was used to support the decision of substantial equivalence.

5. Substantially Equivalent Comparison

Parameters		New Device	Predicate Device	Remark
1.	510(k) Number:	K241202	K222547	--
2.	Marketing clearance date:	No	October 20, 2022	--
3.	Device Name	Electric nasal aspirator	Electric nasal aspirator	--
4.	Model	HTD2601US, H2609AU	BC026 (Predicate device Labeling is BC023)	--
5.	510(k) Owner	Hetaida Technology Co., Ltd.	Shenzhen XinLianFeng Technology CO.,LTD	--
6.	Classification	Class II Device, BTA (21 CFR § 878.4780)	Class II Device, BTA (21 CFR § 878.4780)	Same
7.	Classification Panel	General & Plastic Surgery	General & Plastic Surgery	Same
8.	Type of use	Over-The-Counter Use	Over-The-Counter Use	Same
9.	Indications for Use	The Electronic Nasal Aspirator is intended for intermittent removal of nasal secretions and mucus from children (age 2-12 years old). This device is used in a home environment.	The Electronic Nasal Aspirator is intended for intermittent removal of nasal secretions and mucus from children (age 2-12 years old). This device is used in a home environment.	Same
10.	Patient Population	Age 2-12 years old	Age 2-12 years old	Same
11.	Intended Environment	Home use	Home use	Same
12.	Device Description	The HTD2601US and H2609AU Electronic Nasal Aspirator is a portable device which is intended for suction of nasal passages in children 2-12 years of age. The motor pump provides a negative pressure which removes nasal secretions.	The BC026 Electronic Nasal Aspirator is a portable device which is intended for suction of nasal passages in children 2-12 years of age. The motor pump provides a negative pressure which removes nasal secretions.	Same

13.	Vacuum pressure	≤68kPa	52-60Kpa	Different Note 1
14.	Maximum flow value	≥1.6L/min	No	
15.	Noise Level	≤60dB	<80dBA	Similar
16.	Power consumption	1.5W	2.2W	Different Note 2
17.	Motor Type	3.7V DC	3.7V DC	
18.	Power Source	DC 3.7 V / 500mAh Rechargeable Li-ion battery	DC 3.7 V / 700mAh Rechargeable Li-ion battery	
19.	Device Dimension	HTD2601US: 185 mm x 42 mm x 42 mm (Lx WxH) H2609AU: 191 mm x 42 mm x 42 mm (Lx WxH)	160 (H) x 41 (L) x 41 (W)mm	Different Note 3
20.	Weight	Approx.167g	320±5g	
21.	Tips Dimension (ψ)	Type1: OD4.1mm/ID2.3mm Type2: OD7.9mm/ID3.0mm	OD4.3/ID2.4	Different Note 4
22.	Main Materials	ABS, PCTG, Silicone	ABS, PC, Silicone	Different Note 5
23.	Operating condition	5°C~40°C(41°F~104°F); ≤85% R.H.;	5°C(41°F) to 40°C(104°F); 15% to 93% R.H.	Similar
24.	Storage condition	-20°C~55°C(-4°F~131°F); ≤93% R.H.;	-10°C(-23°F) to 70°C (158°F) ; 10% to 95% R.H.	Different Note 6
25.	Expected service life	5 years	2 years	Different Note 7
26.	Type BF applied part	Type BF applied part	Type BF applied part	Same
27.	Safety	ANSI AAMI ES60601-1 ANSI AAMI HA60601-1-11 IEC 60601-1-6 IEC 62133-2	IEC 60601-1 IEC 60601-1-11 IEC 62133-2 IEC 62471	Note 8
28.	EMC	ANSI AAMI IEC 60601-1-2	IEC 60601-1-2	
29.	Water-resistance	IP22	IP22	Same
30.	Biocompatibility	HTD2601US and H2609AU operates in conjunction with silicone nasal aspiration tips, which come into the contact with nasal skin and mucosa for less than 24 hours.	BC026 operates in conjunction with silicone nasal aspiration tips, which come into the contact with nasal skin and mucosa for less than 24 hours.	Note 9
31.	Standard of Biocompatibility	ISO 10993-1 ISO 10993-5 ISO 10993-10 ISO 10993-23	ISO 10993-1 ISO 10993-5 ISO 10993-10 ISO 10993-12	Note 9
32.	Contacted Parts	Silicone Tip (funnel nozzle)	Silicone Tip (funnel nozzle)	Same
33.	Material of contacted parts	Silicone	Silicone	Same

The discussion of differences exist between the proposed and predicate devices is listed as follows:

Note 1: Although the pressures of the proposed device and the predicate device are slightly different, and the proposed device adds the flow rate to performance, both can evaluate that the nasal aspirator provides sufficient suction to clean the nasal cavity. Moreover, the performance test results have shown that the

proposed device meets the necessary requirements in terms of suction level properties and daily application. Therefore, the differences do not affect the safety and effectiveness.

Note 2: Although the Power consumption and Power Source between the proposed device and the predicate device are different, the battery of the proposed device is widely available on the market and has been tested to the IEC 62133-2. In addition, the proposed device has been tested to AAMI/ANSI ES60601-1 and IEC 60601-1-2. Therefore, the difference does not raise any new safety and effectiveness issues.

Note 3: Although the Device Dimension and the Weight between the proposed device and the predicate device are different, they are all complied with IEC 60601-1 and IEC 60601-1-2, so the differences do not affect the safety and effectiveness.

Note 4: Although the Tips Dimension of proposed device is different from that of predicate device, the Tip's OD Dimension (Type 2) of proposed device is larger than that of predicate device, but the Tip's OD Dimension (Type 1) of proposed device is slightly smaller than that of predicate device, in general, the OD size is with the similar range of the predicate device;

The Tip's ID Dimension (Type 2) of the proposed device is slightly larger than that of predicate device, but the Tip's ID Dimension (Type 1) of proposed device is slightly smaller than that of predicate device, in general, the ID size is with the similar range of predicate device. Besides, both the predicate device and proposed device are complied with the ANSI AAMI ES60601-1 and ANSI AAMI HA60601-1-11, so the differences do not affect the safety and effectiveness.

Note 5: Although the materials of the proposed device and the predicate device are slightly different, the PCTG is BPA-free and safer than PC. Moreover, the biocompatibility test results have shown that the proposed device and the predicate device meet the necessary requirements in terms of biocompatibility.

Note 6: The Storage environment of proposed device is different from that of predicate devices, but they all complied with the IEC 60601-1-11 and IEC 60601-1, so the difference will not raise any new safety and effectiveness issues.

Note 7: Although the Expected service life of the proposed device and the predicate device are slightly different, the service life of the proposed device is longer than that of predicate device. Moreover, the life test results have shown that the service life of proposed device meets the requirements in terms of 5 years. Therefore, the difference does not raise any new safety and effectiveness issues.

Note 8: Although the Safety and EMC standards of the proposed device and the predicate device are slightly different, the proposed device does not have the Music and Light function, so there is no need to meet the IEC 62471, and complied with the IEC 60601-1-6 for usability is also important. Therefore, the difference does not raise any new safety and effectiveness issues.

Note 9: Although the Biocompatibility standards of the proposed device and the predicate device are slightly different, the standard ISO 10993-10 has undergone a new revision that has resulted in the addition of standard ISO 10993-23, so should also comply with the new revision and the new standard for biocompatibility.

The proposed device has the same indication for use as the predicate device as well as comparable technical and biocompatibility properties and characteristics, and the minor differences don't raise any additional questions for safety and effectiveness. Therefore, the proposed device is substantially equivalent to the predicate device.

6. Non-clinical Testing Summary

Bench tests were conducted to verify that the proposed device met all requirements. The test results demonstrated that the proposed device complies with the following standards:

- ANSI AAMI ES60601-1:2005/(R)2012 And A1:2012, C1:2009/(R)2012 And A2:2010/(R)2012+A2:2021 (Cons. Text) [Incl. AMD2:2021] Medical electrical equipment - Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005, MOD) [Including Amendment 2 (2021)];
- ANSI AAMI IEC 60601-1-2:2014 [Including AMD 1:2021] Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests [Including Amendment 1 (2021)];
- ANSI AAMI HA60601-1-11:2015 [Including AMD1:2021] Medical Electrical Equipment -- Part 1-11: General requirements for basic safety and essential performance -- Collateral Standard: Requirements for medical electrical equipment and medical electrical equipment and medical electrical systems used in the home healthcare environment (IEC 60601-1-11:2015 MOD) [Including Amendment1 (2021)];
- IEC 60601-1-6 Edition 3.2 2020-07 CONSOLIDATED VERSION Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability;
- IEC 62304 Edition 1.1 2015-06 CONSOLIDATED VERSION Medical device software - Software life cycle processes;
- IEC 62133-2 Edition1.0 2017-02 Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems;
- ISO 10993-5 Third Edition 2009-06-01, Biological Evaluation Of Medical Devices - Part 5: Tests For In Vitro Cytotoxicity. (Biocompatibility)
- ISO 10993-10 Fourth edition 2021-11, Biological evaluation of medical devices - Part 10: Tests for skin sensitization,
- ISO 10993-23 First edition 2021-01, Biological evaluation of medical devices - Part 23: Tests for irritation.
- Performance tests: Negative pressure measuring, Maximum flow rate, Automatic power-off, and Noise test.

7. Conclusion

The conclusion drawn from the non-clinical testing, comparison, and analysis demonstrates that the subject device in 510(k) submission, the subject device is substantially equivalent to the legally marketed predicate device K222547.