



August 12, 2022

Shenzhen Century Dongyuan Technology Co Ltd.
% You Yijie
Manager
Qimmiq Medical Consulting Service Co., Ltd.
RM.406, Building C, Run Science Park,
No.18 Shenzhou Road, Huangpu
Guangzhou, Guangdong 510663
China

Re: K221466

Trade/Device Name: IPL Hair Removal Device, model: AI01, AI06, AI08, AI16, AI17
Regulation Number: 21 CFR 878.4810
Regulation Name: Laser Surgical Instrument For Use In General And Plastic Surgery And In
Dermatology
Regulatory Class: Class II
Product Code: OHT
Dated: May 19, 2022
Received: May 19, 2022

Dear You Yijie:

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 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) 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-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,

Jianting Wang
Acting Assistant Director
DHT4A: Division of General Surgery Devices
OHT4: Office of Surgical
and Infection Control Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K221466

Device Name

IPL Hair Removal Device, model: AI01, AI06, AI08, AI16, AI17

Indications for Use (Describe)

The IPL Hair Removal Device (Model : AI01, AI06, AI08, AI16, AI17) is intended for the removal of unwanted body hair.

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.

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Section 5: 510(K) Summary

1. Submitter's Information

Establishment Registration Information:

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Date prepared: May 13, 2022

2. Device Information

Trade Name: IPL Hair Removal Device, model: AI01, AI06, AI08, AI16,
AI17
Classification name: Light Based Over-The-Counter Hair Removal
Common or Usual Name: Powered Light Based Non-Laser Surgical Instrument With
Thermal Effect
Review panel: General & Plastic Surgery
Product code: OHT
Regulation Class: II
Regulation Number: 878.4810

3. Predicate Device Information

510(k) submitter/holder: Shenzhen Century Dongyuan Technology Co Ltd.
 510(K) Number: K212897
 Trade Name: IPL Hair Removal Device
 Model: AI01
 Classification name: Powered Light Based Non-Laser Surgical Instrument With Thermal Effect
 Review panel: General & Plastic Surgery
 Product code: ONF
 Regulation Class: II
 Regulation Number: 878.4810

4. Device description

IPL Hair Removal Device, models: AI01, AI06, AI08, AI16, AI17 are hand-held over-the-counter devices for the permanent reduction of hair growth based on Intense Pulsed Light (IPL). The device is powered by an external power adapter and its IPL emission activation is by finger switch. The device contains a Xenon arc flashlamp, a skin sensor to detect appropriate skin contact, and a skin color detection system to detect the skin color. If the device is not properly applied to the treatment area (in full contact with the skin), the device cannot emit the treatment light pulses. The skin color detection system detects whether a skin tone is suitable for treatment. If the skin tone is not in the range suitable for treatment, the device is designed to not emit the treatment light pulses. The light pulses are selectively absorbed by the hair follicles, which results in the hair follicles being temporarily heated. This results in a reduction of hair growth from the treated hair follicles.

5. Indications for Use

The IPL Hair Removal Device (Model: AI01, AI06, AI08, AI16, AI17) is intended for the removal of unwanted body hair.

6. Summary of technological characteristics of device

compared to the predicate devices (K212897)

SE Comparisons	Subject device (IPL Hair Removal Device, model: AI01, AI06, AI08, AI16, AI17)	Predicate device (IPL Hair Removal Device, model: AI01)	Discussion of difference
510K Number	/	K212897	/
Classification	21CFR 878.4810	21CFR 878.4810	Same
Product Code	OHT	ONF	Technical Method equivalent, have same Classification regulation

FDA Class	II	II	Same
Model	AI01, AI06, AI08, AI16, AI17	AI01	/
Indications for Use	The IPL Hair Removal Device (Model: AI01, AI06, AI08, AI16, AI17) is intended for the removal of unwanted body hair.	The IPL Hair Removal Device (Model: AI01) is intended for the removal of unwanted body hair.	Same
Type of use	Over-The-Counter Use	Prescription Use	Different
Design	Hand-held	Hand-held	Same
Patient Population	Adult	Adult	Same
Technology	Intense Pulse Light (IPL)	Intense Pulse Light (IPL)	Same
Dimensions	140*203*56	140*203*56	Same
Power source	an external power supply	an external power supply	Same
Light source	Xenon Arc Flashlamp	Xenon Arc Flashlamp	Same
Wavelength	510nm~1100nm	510nm~1100nm	Same
Spot Size	3.1 cm ²	3.1 cm ²	Same
Max. Fluence (J/cm ²)	3.8-5.2 J/cm ²	3.8-5.2 J/cm ²	Same
Pulse duration	3 milliseconds	3 milliseconds	Same
Output energy	12-16 J	12-16 J	Same
Pulsing Control	Finger switch	Finger switch	Same
Skin contact sensor	Yes	Yes	Same
Skin Tone detection	Yes	No	Different
Software Control	Yes	Yes	Same
Electrical safety, EMC, Biological Evaluation	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11 IEC 60601-2-57 IEC 62471 ISO 10993-5 ISO 10993-10	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11 IEC 60601-2-57 IEC 62471 ISO 10993-5 ISO 10993-10	Same

7. Discussion of Non-Clinical Tests Performed for Safety and effectiveness are as follows

The modifications to the device have been designed and assessed under design control processes compliant with FDA 21 CFR 820. A risk analysis was conducted to assess the impact of the changes on the subject device using internal design control procedures and a fault tree analysis described in the FDA-recognized version of ISO 14971.

These risks were mitigated using planned measures that included testing to recognized FDA consensus standards. Changes in software were verified and validated using the software development process.

Non-clinical testing listed in the table below was performed to demonstrate that the device can be used safely and effectively for the proposed indications for use.

Standards	Standards Name	Results
ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance	Pass
IEC 60601-1-2: 2014	Medical Electrical Equipment -- Part 1-2: General Requirements For Basic Safety And Essential Performance -- Collateral Standard: Electromagnetic Disturbances -- Requirements And Tests	Pass
IEC 60601-1-11: 2015	Medical Electrical Equipment - Part 1-2: General Requirements For Basic Safety And Essential Performance - Collateral Standard: Electromagnetic Disturbances - Requirements And Tests	Pass
ISO 60601-2-57: 2011	Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Pass
IEC 62471: 2006	Photobiological safety of lamps and lamp systems	Pass
ISO 10993-5:2009	Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity	Pass
ISO 10993-10:2010	Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization	Pass
IEC 62304:2006+A1:2015	Medical device software - Software life cycle processes	Pass

8. Discussion of Clinical Accuracy Testing Performed

There was no clinical testing performed.

9. Conclusions

The subject device IPL Hair Removal Device models AI01, AI06, AI08, AI16, and AI17, in this 510(k) use the same IPL technology that is used in the predicate device K212897. Differences between the subject device models and predicate device do not raise new types of questions regarding safety and effectiveness, and performance testing demonstrates that the proposed device can be used safely and effectively for the proposed indications for use. The proposed IPL Hair Removal Device is considered to be substantially equivalent to the predicate K212897 device.