

November 23, 2022

Cynosure LLC Michael King Sr. Regulatory Affairs Specialist 5 Carlisle Road Westford, Massachusetts 01886

Re: K223292

Trade/Device Name: TempSure System Regulation Number: 21 CFR 878.4400

Regulation Name: Electrosurgical Cutting And Coagulation Device And Accessories

Regulatory Class: Class II Product Code: GEI, PBX Dated: October 25, 2022 Received: October 26, 2022

Dear Michael King:

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,

Jessica Carr -S

for Long Chen, Ph.D.
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

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DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2023

See PRA Statement below.

510(k) Number (if known)		
K223292		
Device Name		
TempSure System		
Indications for Use (Describe)		

The Small 10mm, 10mm, 15mm, and 20mm handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids.

The Small 10mm, 18mm, 25mm, 30mm, and 60mm handpieces and the FlexSureTM Applicators provide heating for the purpose of elevating tissue temperature for selected medical conditions such as temporary relief of pain, muscle spasms, and increase in local circulation.

The massage device is intended to provide a temporary reduction in the appearance of cellulite

The following surgical modes are applicable to the generator:

Coagulation/Hemostasis: General surgical procedures including urologic, thoracic, plastic, reconstructive, and gynecological procedures where electrosurgical coagulation of tissue is performed.

Cutting: snoring. submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin incisions, biopsy, cysts, abscesses, tumors, cosmetic repairs, development of skin flaps, skin tags and blepharoplasty.

Blended Cutting and Coagulation: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin tags, papilloma keloids, keratosis, verrucae, basal cell carcinoma, nevi, fistulas, epithelioma, cosmetic repairs, cysts, abscesses, and development of skin flaps.

Fulguration: basal cell carcinoma, papilloma, cyst destruction, tumors, verrucae, hemostasis.

Bipolar: pinpoint precise coagulation, pinpoint hemostasis in any field (wet or dry), snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment and turbinata abrinkaga

CONTINUE ON A SEPARATE PAGE IF NEEDED.				
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)			
Type of Use (Select one or both, as applicable)				
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Section 6 – 510(k) Summary for Cynosure TempSure

A summary of 510(k) safety and effectiveness information in accordance with the requirements of 21 CFR 807.92.

807.92(a)(1) Submitter Information				
Applicant	Cynosure, LLC			
Address	5 Carlisle Road, Westford MA, 01886			
Phone Number	781-993-2454			
Fax Number	978-256-6556			
Establishment Registration Number	1222993			
Contact Person	Michael King			
Preparation Date	October 24, 2022			
807.92(a)(2) Name of Device	ce			
Trade or Proprietary Name	TempSure System			
Common or Usual Name	Surgical RF Generator			
Classification Name	Electrosurgical, Cutting & Coagulation & Accessories;			
Classification Name	Massager, Vacuum, Radio Frequency Induced Heat			
Classification Panel	General & Plastic Surgery			
Regulation	21 CFR 878.4440			
Regulatory Class	II			
Product Code(s)	GEI, PBX			
807.92 (a)(3) Legally mark	eted device(s) to which equivalence is claimed			
Predicate Devices	TempSure System (K212891)			
807.92(a)(4) Device Descrip	otion			
	The Cynosure TempSure™ System is a radiofrequency generator with a variety of applications both aesthetic and surgical procedures. The intended action is achieved through application of radiofrequency energy to the patient which results in minimization of heat dissipation and cellular alteration. Output of energy is controlled via the guided user interface (GUI) and the foot and/or hand-switch.			
	There have been no changes to the TempSure Device or handpieces (Small 10, 10, 15, 18, 20, 25, 30 or 60mm), FlexSure Applicators, or Surgical modes (COAG, Cut, Blend, Bipolar, Fulgurate) of the system. The TempSure system is still used with the same existing electrosurgical accessories.			

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The TempSureTM System includes:

- TempSureTM Generator
- Temperature Sensing Handpieces (Small 10, 10, 15, 18, 20, 25, 30, and 60mm)
- Massage Heads (25, 30, and 60mm)
- FlexSureTM Applicators (Large and Medium)
- IEC Power Cord
- Footswitch
- Disposable/Reusable Neutral Pads
- Surgical Fingerswitch/Foot Controlled Handpieces
- Monopolar Cables
- Disposable/Reusable Electrodes, Forceps

807.92(a)(5) Intended Use of the Device

The Small 10mm, 10mm, 15mm, and 20mm handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids.

The Small 10mm, 18mm, 25mm, 30mm, and 60mm handpieces and the FlexSure Applicators provide heating for the purpose of elevating tissue temperature for selected medical conditions such as temporary relief of pain, muscle spasms, and increase in local circulation.

The massage device is intended to provide a temporary reduction in the appearance of cellulite

The following surgical modes are applicable to the generator:

Coagulation/Hemostasis: General surgical procedures including urologic, thoracic, plastic, reconstructive, and gynecological procedures where electrosurgical coagulation of tissue is performed.

Cutting: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin incisions, biopsy, cysts, abscesses, tumors, cosmetic repairs, development of skin flaps, skin tags and blepharoplasty.

Blended Cutting and Coagulation: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin tags, papilloma keloids, keratosis, verrucae, basal cell carcinoma, nevi, fistulas, epithelioma, cosmetic repairs, cysts, abscesses, and development of skin flaps.

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Fulguration: basal cell carcinoma, papilloma, cyst destruction, tumors, verrucae, hemostasis. **Bipolar:** pinpoint precise coagulation, pinpoint hemostasis in any field (wet or dry), snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, and turbinate shrinkage. 807.92(a)(6) Summary of the Technological Characteristics of the Device Compared to the Predicate There have been no changes to the technological characteristics of the device compared to the predicate TempSure System (K212891). Device labeling has been updated to include an additional contraindication for patients with medical conditions that have decreased function of the peripheral nervous tissue. 807.92(b)(1) Non-clinical tests submitted N/A – No non-clinical tests submitted 807.92(b)(2) Clinical tests submitted – N/A – No clinical tests submitted 807.92(b)(3) Conclusions drawn from clinical and non-clinical tests submitted-N/A

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System Specifications

Characteristic	Cynosure TempSure System (KPending)	Cynosure TempSure System (K212891)	
	The Small 10mm, 10mm, 15mm, and 20mm handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids.	The Small 10mm, 10mm, 15mm, and 20mm handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids.	
	The Small 10mm, 18mm, 25mm, 30mm, and 60mm handpieces and the FlexSure Applicators provide heating for the purpose of elevating tissue temperature for selected medical conditions such as temporary relief of pain, muscle spasms, and increase in local circulation.	The Small 10mm, 18mm, 25mm, 30mm, and 60mm handpieces and the FlexSure Applicators provide heating for the purpose of elevating tissue temperature for selected medical conditions such as temporary relief of pain, muscle spasms, and increase in local circulation.	
	The massage device is intended to provide a temporary reduction in the appearance of cellulite	The massage device is intended to provide a temporary reduction in the appearance of cellulite	
	The following surgical modes are applicable to the generator:	The following surgical modes are applicable to the generator:	
Indications for Use	Coagulation/Hemostasis: General surgical procedures including urologic, thoracic, plastic, reconstructive, and gynecological procedures where electrosurgical coagulation of tissue is performed.	Coagulation/Hemostasis: General surgical procedures including urologic, thoracic, plastic, reconstructive, and gynecological procedures where electrosurgical coagulation of tissue is performed.	
	Cutting: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin incisions, biopsy, cysts, abscesses, tumors, cosmetic repairs, development of skin flaps, skin tags and blepharoplasty.	Cutting: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin incisions, biopsy, cysts, abscesses, tumors, cosmetic repairs, development of skin flaps, skin tags and blepharoplasty.	
	Blended Cutting and Coagulation: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin tags, papilloma keloids, keratosis, verrucae, basal cell carcinoma, nevi, fistulas,	Blended Cutting and Coagulation: snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, turbinate shrinkage, skin tags, papilloma keloids, keratosis, verrucae, basal cell carcinoma, nevi, fistulas,	

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Characteristic	Cynosure TempSure System (KPending)	Cynosure TempSure System (K212891)
	epithelioma, cosmetic repairs, cysts, abscesses, and development of skin flaps.	epithelioma, cosmetic repairs, cysts, abscesses, and development of skin flaps.
	Fulguration: basal cell carcinoma, papilloma, cyst destruction, tumors, verrucae, hemostasis.	Fulguration: basal cell carcinoma, papilloma, cyst destruction, tumors, verrucae, hemostasis.
	Bipolar: pinpoint precise coagulation, pinpoint hemostasis in any field (wet or dry), snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, and turbinate shrinkage.	Bipolar: pinpoint precise coagulation, pinpoint hemostasis in any field (wet or dry), snoring, submucosal palatal shrinkage, traditional uvulopalatoplasty (RAUP), myringotomy with effective hemorrhage control, epistaxis treatment, and turbinate shrinkage.
Rx/OTC	Prescription	Prescription
Energy Type	Radiofrequency	Radiofrequency
Modality	Monopolar, Bipolar	Monopolar, Bipolar
Temperature Sensing	Temperature-Sensitive Handpiece	Temperature-Sensitive Handpiece
Temperature Response Time	<1 second	<1 second
Handpiece Size	Small 10mm, 10mm, 15mm, 18mm, 20mm, 25 mm, 30 mm, 60mm, Large & Medium FlexSure Applicators	Small 10mm, 10mm, 15mm, 18mm, 20mm, 25 mm, 30 mm, 60mm, Large & Medium FlexSure Applicators
Massage Head	Yes (25mm, 30mm, 60mm)	Yes (25mm, 30mm, 60mm)
Surgical Accessories	The TempSure™ generator is compatible with existing, previously cleared electrosurgical accessories: neutral pads, electrodes, surgical handpieces, cables, etc.	The TempSure TM generator is compatible with existing, previously cleared electrosurgical accessories: neutral pads, electrodes, surgical handpieces, cables, etc.
Treatment Activation	Fingerswitch, Footswitch	Fingerswitch, Footswitch
Aesthetic Optimal Temperature	39-45°C	39-45°C
Patient Contacting Material	Small 10mm Handpiece: Gold-plated 316 stainless steel Handpieces: PVDF coating, Gold-plated brass, Gold-plated aluminum, Loctite (M-31CL), Polyetherimide (Ultem 1000) FlexSure: Polyimide, Hydrogel Massage Heads: Polycarbonate (Sabic Lexan HP-1), Delrin	Small 10mm Handpiece: Gold-plated 316 stainless steel Handpieces: PVDF coating, Gold-plated brass, Gold-plated aluminum, Loctite (M-31CL), Polyetherimide (Ultem 1000) FlexSure: Polyimide, Hydrogel Massage Heads: Polycarbonate (Sabic Lexan HP-1), Delrin
Input Voltage	110V	110V
Output Waveform	4.0 MHz Sin-wave CW, Fully Rectified, Partially Rectified, and 1.7 MHz for Bipolar	4.0 MHz Sin-wave CW, Fully Rectified, Partially Rectified, and 1.7 MHz for Bipolar

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Characteristic	Cynosure TempSure System (KPending)	Cynosure TempSure System (K212891)
Modes	Surgical (Coag, Cut, Blend, Fulgurate, Bipolar) Smart Handpiece Mode	Surgical (Coag, Cut, Blend, Fulgurate, Bipolar) Smart Handpiece Mode
Max Power Output	300W (Surgical) 120W (Wrinkles) 300W (Tissue Heating)	300W (Surgical) 120W (Wrinkles) 300W (Tissue Heating)
Safety Features	 Compliant with medical electrical equipment requirements for safety and performance (60601-1, 60601-1-2, 60601-2-2) Small 10mm Smart Handpiece is equipped with an integrated accelerometer to detect handpiece motion. RF will be disabled when no handpiece motion is detected. 	 Compliant with medical electrical equipment requirements for safety and performance (60601-1, 60601-1-2, 60601-2-2) Small 10mm Smart Handpiece is equipped with an integrated accelerometer to detect handpiece motion. RF will be disabled when no handpiece motion is detected.
Crest Factor	3.1 (Surgical) 1.5 (Smart Handpiece)	3.1 (Surgical) 1.5 (Smart Handpiece)
Dimensions	22.5" x 18" x 12"	22.5" x 18" x 12"
Weight	30 lbs	30 lbs