

March 25, 2020

Cynosure, LLC Kevin O'Connell Director of Regulatory Affairs 5 Carlisle Road Westford, Massachusetts 01886

Re: K200241

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: January 29, 2020 Received: January 31, 2020

Dear Kevin O'Connell:

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/efdocs/efpmn/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,

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

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2020

Expiration Date: 06/30/2020 See PRA Statement below.

510(k) Number (if known)
K200241
Device Name
ΓempSure™ System
Indications for Use (Describe) The TempSure TM System has the following indications for use:
The 10mm, 15mm, and 20mm Smart Handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids.
The 18mm, 25mm, 30mm, 60mm Smart Handpieces and FlexSure TM 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. epithelidma. 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 turbinate shrinkage
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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"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 5	510k - K200241	510(k) Summary

510(k) Summary for Cynosure TempSure TM

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

807.92(a)(1) Submitter Infe		
Applicant	Cynosure, LLC	
Address	5 Carlisle Road, Westford MA, 01886	
Phone Number	978-256-4200	
Fax Number	978-256-6556	
Establishment Registration	1222993	
Number	1222773	
Contact Person	Kevin O'Connell	
Preparation Date	March 24, 2020	
807.92(a)(2) Name of Device	ce	
Trade or Proprietary Name	TempSure TM System	
Common or Usual Name	Surgical RF Generator	
C1 'C' ' NI	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	Cynosure TempSure TM (K190678)	
807.92(a)(4) Device Descrip	ption	
	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. The FlexSure™ Applicators are now included for the purpose of	
	tissue heating for selected medical conditions. The applicator comes in 2 sizes (large and medium) and has the same maximum output power of 300W in the Smart Handpiece Mode. The FlexSure applicator utilizes the larger disposable neutral pad. There have been no additional changes to the previous existing handpieces (10, 15, 18,	

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20, 25, 30 or 60mm) or Surgical modes (COAG, Cut, Blend, Bipolar, Fulgurate) of the system. The TempSure system is still used with the same existing electrosurgical accessories.

The TempSure™ System includes:

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

New Additions to the Tempsure System include:

- FlexSureTM Large Applicator
- FlexSureTM Medium Applicator

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

The TempSure system has the following indications for use:

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

The 18mm, 25mm, 30mm, 60mm Smart Handpieces and 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

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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.

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(b)(1) Non-clinical tests submitted

The following non-clinical tests have been included in this 510k submission in determination of substantial equivalence between the test device and the referenced predicates.

Tissue Heating with FlexSureTM Applicator

Bench testing was conducted to show that the new FlexSure single use applicator and large neutral pad, when used in a simulated clinical condition, was able to heat and maintain temperature of the treatment area for 10 minutes.

Electromagnetic Compatibility and Electrical Safety

Electrical safety testing for the Cynosure TempSure was also completed to prove the safe use of the device. These test reports are provided in accordance with FDA Guidance "Premarket Notification 510k Submissions for Electrosurgical Devices for General Surgery" – Section XII – Electrical Safety and Electromagnetic Compatibility". The following test reports are available in Section 17 – Electromagnetic Compatibility and Electrical Safety.

- IEC 60601-1, Medical Electrical Equipment Part 1: General requirements for basic safety and essential performances
- IEC 60601-1-2, Medical Electrical Equipment Part 1 -2: General requirements for basic safety and essential performance Collateral standard: Electromagnetic disturbances requirements and tests
- IEC 60601-2-2, Medical electrical equipment Part 2 -2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories

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

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The non-clinical tests demonstrate that the TempSure generator with the FlexSureTM single use applicators is safe and effective and performs as well or better than the legally marketed predicate device. The Tissue Heating bench test demonstrated that the device is able to maintain temperature for at least the 10-minute treatment time when used as intended under clinical conditions at various treatment areas and settings. In addition, the Electromagnetic Compatibility and Electrical Safety testing shows that the device is safe to use and meets required standards. These non-clinical tests show that the TempSure generator using the FlexSureTM applicators meets design specifications as well as performance requirements.

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Characteristic	Cynosure TempSure System (K200241)	Cynosure TempSure System (K190678)
Indications for Use	The 10mm, 15mm, and 20mm handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids. The 18mm TempSure Vitalia handpiece, the FlexSure TM single-use Applicator, and the 25mm, 30mm and 60mm TempSure Body handpieces 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 10mm, 15mm, and 20mm handpieces are indicated for non-ablative treatment of mild to moderate facial wrinkles and rhytids The 18mm, 25mm, 30mm and 60mm handpieces 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	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

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Characteristic	Cynosure TempSure System (K200241)	Cynosure TempSure System (K190678)
	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. epithelidma. cosmetic repairs. cysts. abscesses. and development of skin flaps.	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. epithelidma. 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

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Characteristic	Cynosure TempSure System (K200241)	Cynosure TempSure System (K190678)
Modality	Monopolar, Bipolar	Monopolar, Bipolar
Temperature Sensing	Temperature-Sensitive Handpiece	Temperature-Sensitive Handpiece
Temperature Response Time	<1 second	<1 second
Handpiece Size	10mm, 15mm, 18mm, 20mm, 25 mm, 30 mm, 60mm The FlexSure single use applicator is an oval shape that comes in 2 sizes, large and medium. The large applicator covers an area that is 398 cm ² and the medium applicator covers an area that is 250cm ² .	10mm, 15mm, 20mm, 25 mm, 30 mm and 60mm
Treatment Activation	Fingerswitch, Footswitch	Fingerswitch, Footswitch
Aesthetic Optimal Temperature	39-45°C	39-45°C
Patient Contacting Material	Gold-Plated Aluminum, PVDF, Polyetherimide, Loctite, Delrin, Polycarbonate sabic lexan, Hydrogel	Gold-Plated Aluminum, PVDF, Polyetherimide, Loctite, Delrin, Polycarbonate sabic lexan, Hydrogel
Massage Head	Yes	Yes
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
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)
Dimensions	22.5" x 18" x 12"	22.5" x 18" x 12"
Weight	30 lbs	30 lbs