

March 18, 2021

Ceragem Co, Ltd. % Priscilla Chung Regulatory Affairs Consultant LK Consulting Group USA, Inc. 1150 Roosevelt STE 200 Irvine, California 92620

Re: K202937

Trade/Device Name: Ceragem Automatic Thermal Massager Model CGM-MB-1701 & CGM-MB-

1702

Regulation Number: 21 CFR 890.5880

Regulation Name: Multi-Function Physical Therapy Table

Regulatory Class: Class II

Product Code: JFB

Dated: December 14, 2020 Received: December 22, 2020

Dear Priscilla Chung:

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,

Jitendra Virani
Acting Assistant Director
DHT5B: Division of Neuromodulation
and Physical Medicine Devices
OHT5: Office of Neurological
and Physical Medicine 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: 06/30/2023 See PRA Statement below.

510(k) Number (II known)	
K202937	
Device Name	
Ceragem Automatic Thermal Massager, Model CGM-MB-1701 & CGM-MB-1702	

Indications for Use (Describe)

The intended use of the Ceragem Automatic Thermal Massager, Model CGM-MB-1701 & CGM-MB-1702 is to provide muscle relaxation therapy by delivering heat and soothing massage. Additionally, the product provides topical radiant infrared heat for:

- Temporary relief of minor muscle and joint pain stiffness
- Temporary relief of minor joint pain associated with arthritis
- Temporary increase in local circulation where applied
- Relaxation of muscles

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)
Prescription use (Part 21 GFR 601 Subpart D)	Over-The-Counter Ose (21 CFK 601 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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510(k) Summary

(K202937)

This summary of 510(k) is being submitted in accordance with requirements of 21 CFR Part 807.92.

Date: Feb 23, 2021

1. 510K Applicant / Submitter:

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2. Submission Contact Person

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3. Device

- Proprietary Name: Ceragem Automatic Thermal Massager, Model CGM MB-1701 & CGM MB-1702
- Regulation Number: 21 CFR 890.5880
- Regulation Name: Multi-Function Physical Therapy Table
- Regulatory Class: Class II
- Product Code: JFB

4. Predicate Device

Automatic Thermal Massager, Model CGM MB-1101 (K140592) by Ceragem International, Inc.

5. Description:

The Ceragem Automatic Thermal Massager which offers two models, CGM MB-1701 & CGM MB-1702 is an electrically powered, motorized, multi-functional physical therapy table intended to use for temporary relief of muscle/joint pain and stiffness by applying massage

pressure from up and down movement of the internal motor, and heat from the internal and external projectors.

The main components of the subject device are a main table mat, a supporting mat, a 3-Sphere projector, an abdominal vibration projector, and a remote control. The main table has an internal projector which includes an up/down movement motor for pressure effect with ceramic balls as a medium for thermal massage effect. The internal projector is located in the center of the mat which is mainly for spine and up/down and vertically along the spinal line. The main table mat has a heating pad for thermal effect.

The 3-sphere projector is an optional accessory which the user can put anywhere needed additionally such as neck and armpit, and has 3 balls for thermal effect. The abdominal vibration projector is also an optional accessory mainly for abdominal area and offers vibration and thermal effect.

The only difference between the model CGM MB-1701 and the CGM MB-1702 is that the CGM MB-1701 has an air massage module for calf on the supporting mat. The supporting mat of the both models has a heating pad.

8. Indications for Use

The intended use of the Ceragem Automatic Thermal Massager, Model CGM MB-1701 & CGM MB-1702 is to provide muscle relaxation therapy by delivering heat and soothing massage. Additionally, the product provides topical radiant infrared heat for:

- Temporary relief of minor muscle and joint pain stiffness
- Temporary relief of minor joint pain associated with arthritis
- Temporary increase in local circulation where applied
- Relaxation of muscles

9. Substantial Equivalence Discussion:

9.1. Comparison Chart

	Subject Device	Predicate Device
Device Name	Ceragem Automatic Thermal Massager,	CGM MB-1101
	Model CGM MB-1701&CGM MB-1702	Automatic Thermal Massager
Manufacturer	Ceragem International, Inc.	Ceragem International, Inc.
510(k) Number	K202937	K140592
Rated Voltage	100-127Vac 50/60Hz	100-127Vac 50/60Hz
Home Use	Yes	Yes
Style	Flood Model (Massage Bed)	Flood Model (Massage Bed)
Components	Main Table	Main Table
-	Supporting Mat	Supporting Mat
	Remote Control	Remote Control
	3-Sphere projector	3-Sphere projector

		Abdominal Vibration Projector	9-Sphere projector
		Power cord	Power cord
		Outer fabric	Outer fabric
		Head cushion	Head cushion
		Projector Cover	Projector Cover
		Calf Massager	3
Ren	note Control	Yes	Yes
	ration Method	Auto / Manual	Auto / Manual
	Emission Spectrum	Ceramic: 5~20μm	Jade: 5~20μm
	mosion Speed am	Epoxy Carbon Panel: 5~20 μm	Epoxy Carbon Panel: 5~20 μm
Heating	Voltage	24V	24V
Device	Power	24.V 28.8W	15W
		• Internal: 30°C - 65°C (86°F - 149°F)	• Internal: 30°C - 65°C (86°F -
Temp	erature Range		
		• External, Main, Auxiliary: 30°C -	49°F)
		60°C(86°F - 140°F)	• External, Main, Auxiliary: 30°C -
Distance of	the Internal Ducientes	710	60°C(86°F - 140°F) 710mm
	the Internal Projector	710mm	
Inte	ensity Level	1~9	1~6
Enter O	who atima Ductastian	(12.9~69.2mm) Yes	(21~75mm) Yes
	rheating Protection		
	ving Device	Geared DC Motor	Geared DC Motor
	nit Detector	Limit Switch	Limit Switch
	erature Sensor	Thermistor	Thermistor
	ntrol Method	Microcontroller	Microcontroller
	ging Method	Wire-Chain	Wire-Chain
Material	Main/Supporting	Steel, ABS	Steel, ABS
	Frame		
	Outer Fabric	Polyester, Cotton, Rayon, Polyurethane	Polyester, Cotton, Rayon,
			Polyurethane
	Main	Nylon	Polyurethane
	Mat/Supporting Mat	Polyurethane	
Projectors		Ceramic Rollers	Jade Rollers
	Projector		
	External	Ceramic Heads Projector	Jade Heads Projector
	Projector		
Mat	Dimensions	When spread out	When spread out
		728.2mmx2012.4mmx431.5mm(±5mm)	700mmx2016mmx450mm(±5mm)
		When folded	When folded
		: 728.2mmx2044mmx431.5mm(±5mm)	700mmx1258mmx450mm(±5mm)
	Weight	Weight: 62kg for CGM MB-1701, 57kg for CGM MB-1702	53 kg
		Mode A	Mode 1
-		Mode 1	Mode 2
		Mode 2	Mode 3
		Mode 3	Mode 4
		Mode 4	Mode 5
		Mode 5	Mode 6
	Mode	Mode 6	Mode 7
 - -		Mode 7	Mode 7 Mode 8
		Mode 8	Mode 8 Mode 9
		Mode 9	Semi-Automatic Mode
		Mode 9 Mode 10	
-			Manual Mode
		Mode 11	

Mode 12	
Mode 13	
Mode 14	
Mode 15	
Intensive Mode	
Semi-Automatic Mode	
Semi-Automatic Master Mode	
Manual Mode	
Manual Master Mode	
Abdominal Vibration Projector Mode	
Calf Mode	

9.2. Substantial Equivalence Discussion

The subject device is identical to the predicate device in the indications for use, principle of operation, and technological characteristics. The performance specifications are nearly the same, yet the subject device has more choosing options. For example, the intensity level specification is the same between the subject device and the predicate device, but the subject device divided the range into 9 options instead of 6 to better meet user's intensity preferences. The same thing applies to the massage mode that the overall massage specification is the same, but the subject device offers more variety of the massage patterns and options.

The major difference is the material of the internal heating element has changed. We have performed the skin temperature to validate the performance of the heating massage and the test results support that the subject device is substantially equivalent to the predicate device. Other differences are that the subject device has upgraded the 9-Sphere projector to have vibration feature for massage effect, and the subject model, CGM MB-1701, has an air massage module for calf on the supporting mat. These vibration and air massage functions are just additional features and still the main function is heating. The skin temperature test result supported that the Abdominal Vibration Projector and the supporting mat perform as well as the predicate device. Similar to the predicate device, the subject device was able to heat skin to 40-45 degree C within 15-20 minutes. During the intended treatment the subject device maintained skin temperature between 40-45 degree C.

10. Performance Tests (Non-clinical)

- The skin temperature study was performed to verify that the subject device maintained skin temperature between 40-45 degree C during the intended treatment.
- The usability study was performed to validate that the lay users can use the subject device only with the User Manual provided.
- The EMC and electrical safety testing were conducted on the subject device in accordance with ANSI AAMI ES60601-1, IEC 60601-1-2, IEC 60601-1-6, and IEC 60601-1-11.
- The cytotoxicity test per ISO 10993-5 and skin irritation & sensitization tests per ISO 10993-10 were performed to evaluate the safety of the new materials which contact the

patients.

• The level of concern for the subject device SW is moderate and the validation tests were performed to verify that the firmware works as intended. The test results of all the tests supported that it is substantially equivalent to the predicate device.

11. Conclusions:

Based on the information provided in this premarket notification, CERAGEM Co, Ltd. concludes that the Ceragem Automatic Thermal Massager, Model CGM MB-1701 & CGM MB-1702 are substantially equivalent to the predicate device as described herein in.