

GT Medical Technologies % Jessica Newhard Regulatory Affairs and Quality Assurance Manager 1809 S Holbrook Lane, Suite 107 TEMPE AZ 85281

November 9, 2022

Re: K221539

Trade/Device Name: GammaTile® Regulation Number: 21 CFR 892.5730

Regulation Name: Radionuclide brachytherapy source

Regulatory Class: Class II Product Code: KXK Dated: October 7, 2022 Received: October 11, 2022

Dear Jessica Newhard:

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-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/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,

Julie Sullivan -S

Julie Sullivan, Ph.D.

Director

DHT8C: Division of Radiological Imaging

and Radiation Therapy Devices
OHT8: Office of Radiological Health
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

510(k) Number (if known)

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

Expiration Date: 06/30/2023

See PRA Statement below.

K221539		
Device Name GammaTile®		
Indications for Use (Describe) GammaTile is indicated as a treatment for patients with newly diagnosed malignant intracranial neoplasms and patients with recurrent intracranial neoplasms.		
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 PRAStaff@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."

I. 510(k) Summary

Table 1. Tabular Summary of 510 (k)

K221539

Submitter	GT Medical Corporation
Address	1809 S Holbrook Drive
	Suite 107
	Tempe, AZ 85281
Telephone Number	480-276-8609
Contact Person	Jessica Newhard
	Regulatory Affairs and Quality Assurance
	Manager
	jnewhard@gtmedtech.com
Date of Preparation	November 4, 2022
Device Trade Name	GammaTile®
Device Common Name	Radionuclide Brachytherapy Seeds
Device Classification Name	Radionuclide Brachytherapy Source (per
	21CFR §892.5730)
Device Regulation Number	892.5730
Product Code	KXK
Predicate Device(s)	Predicate: K190839 GammaTile (Indications
	for Use)
	Reference Device: K150825 DuraMatrix
	Onlay Plus
Product Description	GammaTile is a device intended for
	the treatment of intracranial neoplasms which
	uses cesium-131 radioactive sources
	embedded in a collagen matrix. GammaTile
	is designed to provide "adjuvant" radiation
	therapy – therapy to eliminate any remaining
	neoplastic cells – to patients who require
	surgical resection of brain neoplasms.
	GammaTile is positioned within the resection
	cavity immediately after surgical excision of
	the brain neoplasm to deliver radiation
	therapy to any neoplastic cells that remain in
	proximity of the resection cavity.

Indications for Use Statement	GammaTile is indicated as a treatment for
	patients with newly diagnosed malignant
	intracranial neoplasms and patients with
	recurrent intracranial neoplasms.
Indication for the statement common to	-
Indication for Use statement compared to	No change is being requested to the indication
currently marketed predicate device	for use statement within this submission.
Patient Population	No change is being requested to the patient
	population within this submission.
	GammaTile is intended for patients with
	newly diagnosed malignant intracranial
	neoplasms and patients with recurrent
	intracranial neoplasms.
Statement of Technological Characteristics	The change to materials, specifically the
	change in collagen carrier of the subject
	device, has been assessed to ensure it has
	technological characteristics equivalent to the
	predicate device. Biocompatibility testing was
	performed and demonstrated that GammaTile
	subject device maintains an equivalent
	biocompatibility profile as the predicate
	device. A collagenase study was performed
	on the subject device, predicate device and
	reference device which demonstrated that the
	bioresorption timeframe is similar between
	_
	the predicate device material and the subject
	device material. A simulated use study was
	performed on the subject device and
	determined that, under simulated use
	conditions, exposure to radioactive seeds does
	not impact the performance characteristics of
	the subject device. A risk assessment has
	been completed to assess whether the change
	to materials has any impact on safety or
	effectiveness of the device. The risk/change
	analysis resulted in a determination of no new
	risks.

Assessment of Non-clinical Performance Data The subject device has been assessed to ensure it has technological characteristics equivalent to the predicate device. Biocompatibility testing was performed and demonstrated that GammaTile manufactured with the GTMT Collagen (subject device) maintains an equivalent biocompatibility profile as the predicate device. A collagenase study was performed on the e-beam and EO sterilized GTMT Collagen and demonstrated that the bioresorption timeframe is similar between e-beam and EO sterilized predicate collagen carrier material and e-beam and EO sterilized GTMT Collagen. A simulated use study was performed and determined that, under simulated use conditions, exposure to radioactive seeds does not impact the performance characteristics of the subject device. A risk assessment has been completed to assess whether the GTMT Collagen carrier has any impact on safety or effectiveness of the device. The risk/change analysis resulted in a determination of no new risks. Conclusion Drawn from Testing Biocompatibility testing demonstrated that the predicate device and subject device have similar biocompatibility profiles. The collagenase testing concluded that the GTMT Collagen performed similarly to the predicate collagen carrier material which demonstrates that the subject device will have a similar bioresorption profile to the predicate device. In addition, the simulated use study showed no difference in performance between the predicate device and the subject device. Therefore, based on the results from the previous implant studies conducted on the predicate device and the reference device

(equivalent to GTMT Collagen), the similar

bioresorption profile, an equivalent

	manufacturing process of the finished
	GammaTile device, and the performance
	testing results, it was determined that the
	subject device has equivalent technological
	characteristics to the predicate.
Safety and Effectiveness	To ensure that the devices are safe and
	effective compared to the predicate, all
	finished products must meet all acceptance
	criteria required by the product specification
	before distribution. The required testing is
	defined in documented procedures that
	conform to the product design specifications.
	The similar performance characteristics
	demonstrated through simulated use testing
	and the collagenase study provide evidence
	that the GTMT Collagen will continue to
	function as a three-dimensional spacer
	preventing the seeds from direct tissue contact
	to avoid overdosing and as a multi-seed
	carrier providing even spacing between
	adjacent seeds. The GTMT collagen does not
	impact the safety or effectiveness of the
	GammaTile device in comparison to the
	predicate.