

June 22, 2022

Canary Medical USA LLC Nora York Vice President, Regulatory Affairs and Quality Affairs 2710 Loker Ave. West, Suite 350 Carlsbad, California 92010

Re: K220413

Trade/Device Name: Canary Tibial Extension (CTE) with Canary Health Implanted Reporting

Processor (CHIRP) System

Regulation Number: 21 CFR 888.3600

Regulation Name: Implantable Post-Surgical Kinematic Measurement Knee Device

Regulatory Class: Class II

Product Code: QPP Dated: May 26, 2022 Received: May 27, 2022

Dear Nora York:

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

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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,

Ting Song, Ph.D.
Assistant Director
DHT6A: Division of Joint Arthroplasty Devices
OHT6: Office of Orthopedic 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 (if known) K220413
Device Name Canary Tibial Extension (CTE) with Canary Health Implanted Reporting Processor (CHIRP) System
Indications for Use (Describe) The Canary Tibial Extension (CTE) with Canary Health Implanted Reporting Processor (CHIRP) System is intended to provide objective kinematic data from the implanted medical device during a patient's total knee arthroplasty (TKA) post-surgical care. The kinematic data are an adjunct to other physiological parameter measurement tools applied or utilized by the physician during the course of patient monitoring and treatment post-surgery.
The device is indicated for use in patients undergoing a cemented TKA procedure that are normally indicated for at least a 58mm sized tibial stem extension.
The objective kinematic data generated by the CTE with CHIRP System are not intended to support clinical decision-making and have not been shown to provide any clinical benefit.
The CTE with CHIRP System is compatible with Zimmer Persona® Personalized Knee System.
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 SEDADATE DAGE IS NEEDED

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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Traditional 510(k) Submission

CANARY TIBIAL EXTENSION (CTE) WITH
CANARY HEALTH IMPLANTED REPORTING PROCESSOR (CHIRP)



510(K) SUMMARY

Sponsor:	Canary Medical USA LLC
•	2710 Loker Ave. West, Suite 350
	Carlsbad, CA 92010
Establishment	3015802419
Registration Number:	
Contact Person:	Nora C.R. York
Gontage Forestin	Vice President, Regulatory Affairs and Quality Affairs
	Mobile: 760-497-6115
	Email: nyork@canarymedical.com
Date of Summary	March 23, 2022
Preparation:	
Subject Device:	Canary Tibial Extension (CTE) with Canary Health Implanted Reporting
•	Processor (CHIRP) System (K220413)
Regulation Number:	21 CFR 888.3600
Product Code:	QPP
Device Class:	II
Predicate Device:	Canary Tibial Extension (CTE) with Canary Health Implanted Reporting
	Processor (CHIRP) System (DEN200064)
Purpose of Submission:	The purpose of this submission is to add a dedicated low-power
	accelerometer for activity monitoring (step counting) and detection of
	significant motion to trigger kinematic data collection. The design
	enhancements are intended to increase the kinematic data sampling day
	collection capability using the same battery. The design enhancement
	does not change the intended use / indications for use or fundamental
	scientific technology of the device. The addition of the accelerometer
	necessitates other accommodations to the printed circuit board assembly
	(PCBA) and associated embedded software.
Device Description:	The Canary Tibial Extension (CTE) with Canary Health Implanted
	Reporting Processor (CHIRP) System is comprised of the following
	subsystems:
	Canary Tibial Extension (CTE) implant, Operation Report (CD) Report Station (CREATE)
	Operating Room (OR) Base Station System ("BS1"), Llowe Base Station System ("BS2") Home Base Station System ("BS2")
	Home Base Station System ("BS2"), Career Class Base Management Blatform ("Class II") and II
	Canary Cloud Data Management Platform ("Cloud") and Canary Cloud Data Management Platform ("Cloud") and
	Canary Medical Gait Parameters (CMGP software module).

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Traditional 510(k) Submission

CANARY TIBIAL EXTENSION (CTE) WITH
CANARY HEALTH IMPLANTED REPORTING PROCESSOR (CHIRP)



	The CTE and CHIRP System is intended to provide objective kinematic data on patient's total knee arthroplasty (TKA) function. The kinematic data produced by the CTE implant is intended as an adjunct to other physiological measurement tools post TKA surgical care while providing additional tibial stability afforded by traditional tibial extensions of similar length. The implanted CTE collects data from internal motion sensors, and when queried by a BS1 or BS2 over a communication interface, transmits the motion data to the Base Station System. The Base Station System, in turn, uploads the data to the Canary Cloud Data Management Platform. The User is defined as the Patient with the CTE and CHIRP System and their designated Health Care Professional (HCP) with access to the Patient's CTE data.
	The CTE is designed for use with the Zimmer Biomet Persona Personalized Knee System tibial baseplate, to provide additional stability and collect kinematic data to assist the physician in monitoring patient activity following total knee arthroplasty (TKA) in between office visits.
Indications for Use:	The Canary Tibial Extension (CTE) with Canary Health Implanted Reporting Processor (CHIRP) System is intended to provide objective kinematic data from the implanted medical device during a patient's total knee arthroplasty (TKA) post-surgical care. The kinematic data are an adjunct to other physiological parameter measurement tools applied or utilized by the physician during the course of patient monitoring and treatment post-surgery.
	The device is indicated for use in patients undergoing a cemented TKA procedure that are normally indicated for at least a 58mm sized tibial stem extension.
	The objective kinematic data generated by the CTE with CHIRP System are not intended to support clinical decision-making and have not been shown to provide any clinical benefit.
	The CTE with CHIRP System is compatible with Zimmer Persona® Personalized Knee System.
Summary of	The rationale for substantial equivalence is based on comparative
Technological	assessment of the following characteristics:
Characteristics and	Indications for use: Same as predicate device.
Comparison:	Materials: Same as the predicate device.
	Geometry/Configuration/Size (of Tibial Extension): Same as the
	predicate device.
	Performance: Same as predicate device.

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Traditional 510(k) Submission

CANARY TIBIAL EXTENSION (CTE) WITH
CANARY HEALTH IMPLANTED REPORTING PROCESSOR (CHIRP)



	Sterility: Same as the predicate device.
	Packaging: Same as the predicate device.
Summary of	The following non-clinical tests were performed to support the
Performance Data:	modifications to the subject device:
	Shock Survival
	Electrical Life Test
	Battery Longevity
	Electronic Functionality
	Software Verification
Substantial Equivalence	The subject device has the same intended use and indications for use as
Conclusion:	the predicate device. The subject device has the same technological
	characteristics to the predicate, and the performance data and analyses
	demonstrate that:
	any differences do not raise new questions of safety and
	effectiveness; and
	the proposed device is at least as safe and effective as the legally
	marketed predicate device.