

March 24, 2023

Canary Medical USA LLC Kevin Leung Associate Director, Regulatory Affairs 2710 Loker Ave. West, Suite 350 Carlsbad, California 92010

Re: K223803

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: February 24, 2023 Received: February 27, 2023

#### Dear Kevin Leung:

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 <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm</a> 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 <a href="https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products">https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products</a>); 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 <a href="https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems">https://www.fda.gov/medical-device-problems</a>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</a>) and CDRH Learn (<a href="https://www.fda.gov/training-and-continuing-education/cdrh-learn">https://www.fda.gov/training-and-continuing-education/cdrh-learn</a>). 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 (<a href="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">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</a>) for more information or contact DICE by email (<a href="DICE@fda.hhs.gov">DICE@fda.hhs.gov</a>) 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.

maioatione for eoc	
510(k) Number <i>(if known)</i> K223803/S001	
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 Process provide objective kinematic data from the implanted medical device during a patient surgical care. The kinematic data are an adjunct to other physiological parameter me the physician during patient monitoring and treatment post-surgery.	's total knee arthroplasty (TKA) post-
The device is indicated for use in patients undergoing a cemented TKA procedure th 58mm sized tibial stem extension.	at are normally indicated for at least a
The objective kinematic data generated by the CTE with CHIRP System are not intemaking and have not been shown to provide any clinical benefit.	nded to support clinical decision-
The CTE with CHIRP System is compatible with Zimmer Persona® Personalized K	nee System.
Type of Use (Select one or both, as applicable)	
	ter 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."

# K223803 Page 1 of 3



# 510(K) SUMMARY

	T	
Sponsor:	Canary Medical USA LLC	
	2710 Loker Ave. West, Suite 350	
	Carlsbad, CA 92010	
Establishment	3015802419	
Registration Number:		
Contact Person:	Kevin Leung	
	Associate Director, Regulatory Affairs	
	Mobile: 562-547-4067	
	Email: kleung@canarymedical.com	
Subject Device:	Canary Tibial Extension (CTE) with Canary Health Implanted	
	Reporting Processor (CHIRP) System	
Regulation Number:	21 CFR 888.3600	
Product Code:	QPP	
Device Class:	Ш	
Predicate Device:	Canary Tibial Extension (CTE) with Canary Health Implanted Reporting	
	Processor (CHIRP) System (DEN200064)	
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,	
	<ul> <li>Operating Room (OR) Base Station System ("BS1"),</li> </ul>	
	<ul> <li>Home Base Station System ("BS2"),</li> </ul>	
	<ul> <li>Canary Cloud Data Management Platform ("Cloud") and</li> </ul>	
	Canary Medical Gait Parameters (CMGP software module).	
	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.	

### K223803 Page 2 of 3



	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.	
	The Course Course is a second of	
	The Canary Quantiles Recovery Curves software is an accessory and an	
	optional software module for use with the CTE with CHIRP System. The	
	software obtains kinematic data from the CTE with CHIRP System and	
	provides aggregation and visualization of patient population data to HCPs	
	to analyze patient recovery progress and direction of outcome.	
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.	
	Stern 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.	
	shown to provide any eminear 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 the predicate device.	
Comparison:	Intended Use: Same as the predicate device.	
•	Materials: Same as the predicate device.	
	Design Specifications (hardware) Same as the predicate device.	
	Performance: Same as predicate device.	
	Sterility: Same as the predicate device.	
	Packaging: Same as the predicate device.	
Summary of	The following non-clinical activities were performed to support the	
Performance Data:	modifications to the subject device:	
	Software Verification & validation	
	System Integration Validation	
Substantial Equivalence	The subject device has the same intended use and technological	
	2	

### K223803 Page 3 of 3



Conclusion:	characteristics to the predicate, and the performance data and analyses demonstrate that:  • any differences do not raise new questions of safety and
	<ul> <li>effectiveness; and</li> <li>the proposed device is at least as safe and effective as the legally marketed predicate device.</li> </ul>