

Ivera Medical, Inc.
Don Canal
Regulatory Affairs, Quality Manager
3525 Del Mar Heights Road, Suite #430
San Diego, California 92130

March 11, 2022

Re: K111992

Trade/Device Name: Curos Port Protector Regulation Number: 21 CFR 880.5440

Regulation Name: Intravascular Administration Set

Regulatory Class: Class II

Product Code: QBP

Dear Don Canal:

The Food and Drug Administration (FDA) is sending this letter to notify you of an administrative change related to your previous substantial equivalence (SE) determination letter dated January 12, 2012 and the correction letter dated December 14, 2018. Specifically, FDA is updating this SE Letter because FDA has better categorized your device technology under regulation 880.5440.

Please note that the 510(k) submission was not re-reviewed. For questions regarding this letter please contact Payal Patel, OHT3: Office of GastroRenal, Ob-Gyn, General Hospital and Urology Devices, 240-402-6029, Payal.Patel@fda.hhs.gov.

Sincerely,

Payal Patel

Assistant Director for General Hospital Devices

DHT3C: Division of Drug Delivery and General Hospital

Devices and Human Factors

OHT3: Office of GastroRenal, Ob-Gyn, General Hospital

and Urology Devices

Office of Product Evaluation and Quality Center for Devices and Radiological Health



December 14, 2018

Ivera Medical, Inc.
Don Canal
RA/QA
2731 Loker Avenue West
Carlsbad, California 92010

Re: K111992

Trade/Device Name: Curos Port Protector

Regulatory Class: Unclassified

Product Code: QBP Dated: July 13, 2011 Received: July 13, 2011

Dear Don Canal:

This letter corrects our substantially equivalent letter of January 12, 2012.

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 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/CombinationProducts/GuidanceRegulatoryInformation/ucm597488.htm); 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 http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/) and CDRH Learn (http://www.fda.gov/Training/CDRHLearn). 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 (http://www.fda.gov/DICE) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Tina Kiang, Ph.D.

Acting Director
Division of Anesthesiology,
General Hospital, Respiratory,
Infection Control, and Dental Devices
Office of Device Evaluation

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Center for Devices and Radiological Health

4. Indications for Use Statement

The Curos is intended for use on swab-able luer access valves as a disinfecting cleaner prior to line access and to act as a physical barrier to contamination between line accesses. Curos ™ will disinfect the valve three (3) minutes after application and act as a physical barrier to contamination for up to seven (7) days (168 hours) if not removed. The effectiveness of Curos Protectors were tested in vitro against Staphylococcus aureus, Staphylococcus epidermidis, Escherichia coli and Pseudomonas aeruginosa, Candida glibrata, Candida albicans and was found to have >4 log reduction. The Curos Port Protector may be used in the home or healthcare facility.

Prescription Use	AND/OR Over-The-Counter Use	
(Part 21 CFR 801 Subpart D)	(21 CFR 807 Subpart C)	
LEASE DO NOT WRITE BELOW THIS	LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)	
Concurrence of CDRH, Office of Dev	rice Evaluation (ODE)	
	Rhd Chy 1/8/12	
	(Division Sign-Off)	
	Division of Anesthesiology, General Hospita	

	Title: \	
Page 14 of 139	Ivera Medical Curos 510(k) Notification	Confidential

Infection Control, Dental Devices

510(k) Number: _ k / 1/992

510(k) Summary

General Company Information

Name:

Ivera Medical Corporation

Contact:

Don Canal

Consultant RAQA

Address:

Ivera Medical Corporation

3525 Del Mar Heights Road

Suite #430

San Diego, CA 92130

Telephone:

760-612-6090

Fax:

858-228-1770

Date Prepared: October 23, 2011

General Device Description

The **CurosTM** Port Protector device is a single use, sterile device that contains 70% Isopropyl Alcohol and is intended to be used as a disinfectant for needleless luer activated valves

Common Name:

Pad, Alcohol

Trade Name:

Curos[™] Port Protector

Classification:

Unclassified Device, product Code LKB

Predicate Devices

K080466 Curos Port Protector, Ivera Medical Corporation K083508 SwabCap, Excelsior Medical Corporation

Intended Use (Indications)

The Curos is intended for use on swab-able luer access valves as a disinfecting cleaner prior to line access and to act as a physical barrier to contamination between line accesses. Curos ™ will disinfect the valve three (3) minutes after application and act as a physical barrier to contamination for up to seven (7) days (168 hours) if not removed. The effectiveness of Curos Protectors were tested in vitro against Staphylococcus aureus, Staphylococcus epidermidis, Escherichia coli and Pseudomonas aeruginosa, Candida glibrata, Candida albicans and was found to have >4 log reduction. The Curos Port Protector may be used in the home or healthcare facility.

Comparison with Predicate Device

There is no change to the device for this 510(k) notification, the only change is to the Intended Use (indications) to reflect the test data for disinfection which includes 3 minutes to 7 days (168 hours), as described below. The materials of construction and technological characteristics are equivalent to the predicate device.

Subject Device to Predicate Technological Comparison Table

Characteristic	Subject Device	Predicate Device	Predicate Device
Device name	Curos Port Protector	Curos Port Protector	SwabCap
Common Name	Alcohol, disinfecting pad	Alcohol, disinfecting	Alcohol, disinfecting
		pad	pad
Manufacturer	Ivera Medical	Ivera Medical	Excelsior Medical
			Corporation
510(k) number	K110826	K110826	K083508
Regulation	Unclassified,	Unclassified,	Unclassified,
number,	Preamendment device,	Preamendment device,	Preamendment
product code	product code: LKB	product code: LKB	device, product code:
			LKB
Indications for	The Curos is intended for	The Curos Port	SwabCap is intended
use	use on swab-able luer	Protector is a device	for use on swab-able
	access valves as a	containing 70%	luer access valves as
	disinfecting cleaner prior to	Isopropyl Alcohol when	a disinfecting cleaner
	line access and to act as a	left in place for 5 to 15	prior to line access
	physical barrier to	minutes, the Curos Port	and to act as a
	contamination between line	Protector	physical barrier to
	accesses. Curos ™ will	decontaminates the	contamination
1	disinfect the valve three (3)	injection Port;	between line
	minutes after application	thereafter the Curos	accesses. SwabCap
	and act as a physical barrier	Port Protector provides	will disinfect the
	to contamination for up to	a physical barrier	valve five (5) minutes
	seven (7) days (168 hours) if	during the intended	after application and
	not removed. The	use.	act as a physical
	effectiveness of Curos		barrier to
	Protectors were tested in		contamination for up
	vitro against Staphylococcus		to ninety-six (96)
	aureus, Staphylococcus		hours under normal
	epidermidis, Escherichia coli		conditions if not
	and Pseudomonas		removed.
	aeruginosa, Candida		
	glibrata, Candida albicans		

Characteristic	Subject Device	Predicate Device	Predicate Device
	and was found to have >4		
	log reduction. The Curos		
	Port Protector may be used		
	in the home or healthcare		
	facility.		
Disinfectant –			70% Isopropyl
active	70% Isopropyl Alcohol	70% Isopropyl Alcohol	Alcohol
ingredient			Aiconor
Length	0.40 inches	0.40 inches	0.50 inches
Diameter	0.54 inches	0.54 inches	0.60 inches
User Population	Home and hospital use	Home and hospital use	Home and hospital
			use
Colorants Used	Translucent green, molded	Translucent green,	Orange pigment, %
(type, amount,	plastic, 3% concentration	molded plastic, 3%	concentration
concentration)	plastic, 3% concentration	concentration	unknown
Provided Sterile	Yes	Yes	Yes
Single Use	Yes	Yes	Yes
Device	Tes		
Plastic Housing			
to remain in	Yes	Yes	Yes
place			

Substantial Equivalence Performance Testing

Ivera medical has provided non-clinical performance test data that demonstrates the pre-defined acceptance criteria for a disinfecting device has been met. This acceptance criteria is defined as a bacteria count reduction of ≥ 4 log reduction of 2 selected gram positive bacteria, 2 selected gram negative bacteria, and two selected fungus/yeast micro-organisms for a period of time from 3 minutes up to 168 hours (7 days). The efficacy testing was completed using a total of 4 bacteria, 2-gram negative and 2 gram positive as recommended in Draft Guidance for Industry and FDA Staff Premarket Notification [510(k)] Submissions for Medical Devices that Include Antimicrobial Agents DRAFT GUIDANCE. This guidance document is being distributed for comment purposes only. Document issued on: July 19, 2007. The test results are summarized in Table 1.

Table 1 - Efficacy Test Results

Organism	Acceptance	3 minute exposure	7 day (168 hours)
	Criteria	(bacterial count	exposure
	(bacterial count	reduction (Δ Log))	(bacterial count
	reduction (∆Log))		reduction (∆Log))
Staphylococcus aureus	<u>≥</u> 4.0	6.0	6.9
Staphylococcus epidermis	≥ 4.0	6.8	7.3
Escherichia coli	≥ 4.0	5.2	5.2
Pseudomonas aeruginosa	≥ 4.0	5.1	5.1
Candida Albicans	≥ 4.0	5.6	>4.8*
Candida Glabrata	≥ 4.0	5.4	>5.3*

^{*} The entire population was killed, the reduction in bacteria count was limited to the population quantified by the positive controls used in the testing.

The Ivera Curos Port Protector is sterilized using a validated Gamma sterilization process which complies with ISO11137-1:2006/(R) Sterilization of health care products - Radiation - Part 2: Establishing the sterilization dose. Recognition number 14-225.

ISO11137-2:2006 Sterilization of health care products – Radiation – Part 1: requirements for development of validation and routine control of sterilization process for medical devices. Recognition number 14-297.

11137-3:2006/(R) 2010 10/04/2010 AAMI ANSI ISO 14-298 - Radiation - Part 3: Guidance on Dosimetric Aspects. Recognition number 14-298.FDA recognized standard ISO11137 Sterilization Standard.

Ivera Medical has completed testing to demonstrate the Curos Port Protector materials of construction meet FDA recognized standard ISO10993 for biocompatibility.

Conclusion

The analysis arguments and test results demonstrate the **Curos**TM device is safe for its intended use and is substantially equivalent to the predicate devices.