

510(k) Summary
21 CFR 807.92

Sherlock 3CG Tip Confirmation System

General Provisions	Submitter Name:	Bard Access Systems, Inc.
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	Date of Preparation:	07 February 2014

Subject Device	Trade Name:	Sherlock 3CG™ Tip Confirmation System
	Common/Usual Name:	Sherlock 3CG™ Tip Confirmation System
	Classification Name:	Percutaneous, implanted, long-term intravascular catheter
	Product Code/ Regulation:	LJS – 21 CFR 880.5970

Predicate Device	Trade Name:	Sherlock 3CG™ Tip Confirmation System
	Classification Name:	Percutaneous, implanted, long-term intravascular catheter
	Premarket Notification: Manufacturer:	K113808 Bard Access Systems, Inc.

Device Description	<p>The Sherlock 3CG™ TCS is indicated for guidance and positioning of PICCs during insertion and placement. The Sherlock 3CG™ TCS provides real-time catheter tip location information by using passive magnet tracking and the patient's cardiac electrical activity (ECG). The Sherlock 3CG™ TCS displays the location of the PICC tip using a magnetic stylet and magnetic sensors. The Sherlock 3CG™ TCS also displays ECG waveforms received from the patient's skin (baseline ECG) and from the tip of the catheter (intravascular ECG) on the graphical user interface.</p>
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Indications for Use / Intended Use	<p>The Sherlock 3CG™ Tip Confirmation System (TCS) is indicated for guidance and positioning of Peripherally Inserted Central Catheters (PICCs). The Sherlock 3CG™ TCS provides real-time PICC tip location information by using passive magnet tracking and the patient's cardiac electrical activity (ECG). When relying on the patient's ECG signal, the Sherlock 3CG™ TCS is indicated for use as an alternative method to chest X-ray and fluoroscopy for PICC tip placement confirmation in adult patients.</p> <p>Limiting but not contraindicated situations for this technique are in patients where alterations of cardiac rhythm change the presentation of the P-wave as in atrial fibrillation, atrial flutter, severe tachycardia, and pacemaker driven rhythm. In such patients, who are easily identifiable prior to catheter insertion, the use of an additional method is required to confirm PICC tip location.</p>
Technological Characteristics	<p>Technological characteristics of the subject Sherlock 3CG™ TCS are equivalent with respect to the basic system design and function to that of the predicate Sherlock 3CG TCS. Differences do not raise any new questions regarding safety and effectiveness.</p>
Safety & Performance Tests	<p>Verification and validation activities were designed and performed to demonstrate that the subject Sherlock 3CG™ TCS met predetermined performance specifications. The following guidance documents in conjunction with in-house protocols were used to determine appropriate methods for evaluating the performance of the device.</p> <ul style="list-style-type: none"> • <i>Design Control Guidance for Medical Device Manufacturers, March 11, 1997</i> • <i>Draft Guidance - Applying Human Factors and Usability Engineering to Optimize Medical Device Design, June 22, 2011</i> <p>The subject device met all pre-determined acceptance criteria and demonstrated substantial equivalence as compared to the predicate device.</p>
Testing Conclusion	<p>The results of the testing performed demonstrate the subject device is as safe, as effective, and performs as well as or better than the predicate device.</p>
Summary of Substantial Equivalence	<p>Based on the indications for use, technological characteristics, and safety and performance testing, the subject Sherlock 3CG™ TCS met the minimum requirements that are considered adequate for its intended use and is substantially equivalent in design, materials, principles of operation and indications for use to the predicate Sherlock 3CG™ TCS.</p>



Food and Drug Administration
10903 New Hampshire Avenue
Document Control Center – WO66-G609
Silver Spring, MD 20993-0002

March 14, 2014

Bard Access Systems, Incorporated
Mr. James Davis
Regulatory Affairs Specialist
605 North 5600 West
Salt Lake City, UT 84116

Re: K140345
Trade/Device Name: Sherlock 3CG™ Tip Confirmation System
Regulation Number: 21 CFR 880.5970
Regulation Name: Percutaneous, Implanted, Long-Term Intravascular Catheter
Regulatory Class: II
Product Code: LJS
Dated: February 7, 2014
Received: February 14, 2014

Dear Mr. Davis:

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. 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); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 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 the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

Erin  Keith -S

Erin I. Keith, M.S.
Acting Director
Division of Anesthesiology, General Hospital,
Respiratory, Infection Control and
Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)
K140345

Device Name
Sherlock 3CG Tip Confirmation System (TCS)

Indications for Use (Describe)

The Sherlock 3CG Tip Confirmation System (TCS) is indicated for guidance and positioning of Peripherally Inserted Central Catheters (PICCs). The Sherlock 3CGTM TCS provides real-time PICC tip location information by using passive magnet tracking and the patient's cardiac electrical activity (ECG). When relying on the patient's ECG signal, the Sherlock 3CGTM TCS is indicated for use as an alternative method to chest X-ray and fluoroscopy for PICC tip placement confirmation in adult patients.

Limiting but not contraindicated situations for this technique are in patients where alterations of cardiac rhythm change the presentation of the P-wave as in atrial fibrillation, atrial flutter, severe tachycardia, and pacemaker driven rhythm. In such patients, who are easily identifiable prior to catheter insertion, the use of an additional method is required to confirm PICC tip location.

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)

PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON A SEPARATE PAGE IF NEEDED.

FOR FDA USE ONLY

Concurrence of Center for Devices and Radiological Health (CDRH) (Signature)



Digitally signed by Richard C.
Chapman

Date: 2014.03.12 18:00:56 -04'00'

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