

OCT 20 2004

K042708

BIOTRONIK, Inc., ERA 3000 Pacing System Analyzer, Special 510(k)

September 29, 2004

ERA 3000 Pacing System Analyzer Special 510(k) Notification

1. 510(K) SUMMARY

Name and Address of Sponsor: BIOTRONIK, Inc.
6024 Jean Road
Lake Oswego, OR 97035

Establishment Registration Number: 1028232

Device Name: Proprietary Name: ERA 3000 Dual Chamber Pacing System Analyzer
Classification: Class II/III
Classification Name: External Pacemaker Pulse Generator (21 CFR 870.3600)
Pacemaker Electrode Function Tester (21 CFR 870.3630)
Pacemaker Generator Function Analyzer (21 CFR 870.3720)

Product Code: DTA, DTC, DTE

Date Prepared: September 29, 2004

General Description:

The ERA 3000 is a portable, dual chamber pacing system analyzer designed to test the electrical performance of the pulse generator and the pacing lead system at the time of pacemaker implantation and during invasive pacemaker troubleshooting or evaluation procedures. It can also operate as a temporary external pulse generator during the above mentioned procedures. The ERA 3000 utilizes a touch-proof configuration to help prevent hazardous connection between patients and electrical power sources.

Device Modification:

The ERA 3000 PSA software was updated to correct several anomalies. The modified software is designated as ERA 301.4.

Predicate Devices:

BIOTRONIK proposes the following Pacing System Analyzer cleared through 510(k) notification as a predicate device for the ERA 3000 Pacing System Analyzer:

- BIOTRONIK's ERA 3000 Pacing System Analyzer (#K022360, cleared 01-27-03)

Indications for Use:

The ERA 3000 is intended for use during invasive pacemaker procedures in the following activities:

- **Temporary External Pacing**
Provides temporary stimulation under DDD, DDI, DOO, VVI, VDD, VOO, AAI, or AOO modalities during implantable pacemaker procedures or physician evaluations.
- **Lead Threshold Determination**
Determines in situ lead characteristics of impedance, capture threshold, P/R wave amplitude and P/R wave slew rate. Determines the in vivo retrograde conduction time.
- **Pacemaker Function Test**
Tests and analyzes the in vitro operation of external or implantable pulse generators. Determines the following parameters: pulse amplitude and width, A/V delay, and rate/interval.

Name and Address of Manufacturing Site: BIOTRONIK GmbH & Co. KG (reg. no. 9610139)
Woermannkehre 1, 12359 Berlin, Germany
Phone: 011-49-30-689-05-1210

Name and Address of Contract Manufacturing Site: BIOTRONIK AG (reg. no. 8043892)
Ackerstrasse 6, 8180 Bülach, Switzerland
Phone: 011-41-1-864-5169

Contact Person and Phone Number: Jon Brumbaugh
Director, Regulatory Affairs
Phone: (888) 345-0374
Fax: (503) 635-9936



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

OCT 20 2004

Biotronik, Inc.
c/o Mr. Jon Brumbaugh
Director, Regulatory Affairs
6024 Jean Road
Lake Oswego, OR 97035

Re: K042708
Era 3000 Pacing System Analyzer
Regulation Number: 21 CFR 870.3600
Regulation Name: Pulse Generator, Pacemaker, External
Regulatory Class: III
Product Code: DTE
Dated: September 29, 2004
Received: September 30, 2004

Dear Mr. Brumbaugh:

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.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such 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); good manufacturing practice requirements as set

Page 2 – Mr. Jon Brumbaugh

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.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). 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) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

A handwritten signature in black ink that reads "B. Zuckerman for". The signature is written in a cursive style.

Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

