

510(k) SUMMARY OF SAFETY AND EFFECTIVENESS

**1. Applicant**

Quality Electrodynamics (QED)  
700 Beta Drive, Suite 100  
Mayfield Village, OH 44143  
Phone (440) 484-2228

JAN 28 2010

**2. Contact**

Christie Zydyk, MBA  
VP & GM, Regulatory Affairs, Quality Assurance, & Corporate Communications

**3. Date prepared:**

12 January 2010

**4. Tradename**

Shoulder SPEEDER Coil

**5. Common name**

Coil, magnetic resonance, specialty

**6. Classification**

21 CFR 892.1000

**7. Equivalent Device**

Trade name	Legally marketed predicate device	Manufacturer
SPEEDER Shoulder coil	420 GE-64 Phased Array Shoulder Coil	Medical Advances Inc. (MAI, now INVIVO)
	1.5T Atlas SPEEDER Head-Neck Coil	Quality Electrodynamics

**8. Device Description**

The SPEEDER Shoulder coil is designed for use with the with the 1.5T EXCELART Vantage and the 1.5T Vantage Titan MR Systems manufactured by Toshiba Medical Systems Corporation.

**510(k) SUMMARY OF SAFETY AND EFFECTIVENESS****9. Intended Use**

For use with a Toshiba 1.5T EXCELART Vantage or 1.5T Vantage Titan magnetic resonance scanner to produce diagnostic images of the shoulder that can be interpreted by a trained physician.

**10. Comparison with Predicate Devices**

<b>510(k) #</b>	<b>Legally marketed predicate device</b>	<b>Manufacturer</b>
K945778	420 GE-64 Phased Array Shoulder Coil	Medical Advances Inc. (now INVIVO)
K083160	1.5T Atlas SPEEDER Head-Neck Coil	Quality Electrodynamics

The SPEEDER Shoulder coil and the predicate devices have the same intended uses as well as similar designs and are constructed of similar materials.

**11. Conclusion**

It is the opinion of Quality Electrodynamics that the SPEEDER Shoulder coil is substantially equivalent to the above-listed legally marketed predicate devices. Use of the Quality Electrodynamics coil does not result in any new potential hazards.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

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

Quality Electrodynamics  
% Mr. Mark Job  
Responsible Third Party Official  
Regulatory Technology Services LLC  
1394 25<sup>th</sup> Street NW  
BUFFALO MN 53313

JAN 28 2010

Re: K093667

Trade/Device Name: SPEEDER Shoulder Coil  
Regulation Number: 21 CFR 892.1000  
Regulation Name: Magnetic resonance diagnostic device  
Regulatory Class: II  
Product Code: MOS  
Dated: January 13, 2009  
Received: January 14, 2009

Dear Mr. Job:

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 class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

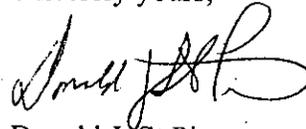
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of

medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). 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 Parts 801 and 809), please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 796-5450. 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 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/cdrh/industry/support/index.html>.

Sincerely yours,



Donald J. St. Pierre  
Acting Director  
Division of Radiological Devices  
Office of *In Vitro* Diagnostic Device  
Evaluation and Safety  
Center for Devices and Radiological Health

Enclosure

# Indications for Use

510(k) Number (if known): K093667

Device Name:  
SPEEDER Shoulder coil

Indications for Use:

For use with a Toshiba 1.5T EXCELART Vantage or 1.5T Vantage Titan magnetic resonance scanner to produce diagnostic images of the shoulder that can be interpreted by a trained physician.

Prescription Use X  
(Part 21 CFR 801 Subpart D)

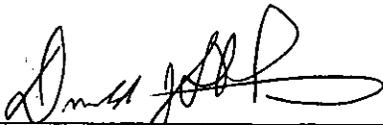
AND/OR

Over-The-Counter Use \_\_\_\_\_  
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)

Concurrence of CDRH, ~~Office of Device Evaluation (ODE)~~

QIVD

  
\_\_\_\_\_  
(Division Sign-Off)  
Division of Radiological Devices

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