Medtronic Engineering the extraordinary

External Defibrillation and Cardioversion

CRM Technical Services Standard Letter

The guidance provided in this letter is for healthcare providers and Medtronic representatives and applies to the following Medtronic device models:

Non-MRI Conditional Devices Model number, model name, description	MRI Conditional Device Model Number, Model Name, Description
C6TR01 VIVA™ CRT-P Digital pacemaker with cardiac resynchronization therapy (OAE-DDDR) **P1501DR** ENRHYTHM® Dual Chamber Rate Responsive Pacemaker with RapidRead™ Telemetry (OAE-DDDR) **C2TR01** SYNCRA ® Digital pacemaker with cardiac resynchronization therapy (OOE-DDDR) **C4TR01** CONSULTA® CRT-P Digital pacemaker with cardiac resynchronization therapy (OAE-DDDR)	**RVDR01** REVO MRI®SURESCAN™, dual chamber Pacemaker with SureScan® Technology (OAE-DDDR)

This Standard Letter addresses External Defibrillation and Cardioversion:
External defibrillation and cardioversion are therapies that deliver an electrical shock to the heart to convert an abnormal heart rhythm to a normal rhythm. Medtronic cardiac devices are designed to withstand exposure to external defibrillation and cardioversion. While damage to an implanted system from an external shock is rare, the probability increases with increased energy levels. These procedures may also temporarily or permanently elevate pacing thresholds or temporarily or permanently damage the myocardium. If external defibrillation or cardioversion are required, consider the following precautions:

- Use the lowest clinically appropriate energy.
- Position the patches or paddles a minimum of 15 cm (6 in) away from the device.
- Position the patches or paddles perpendicular to the device and leads.
- If an external defibrillation or cardioversion is delivered within 15 cm (6 in) of the device, use a Medtronic programmer to evaluate the device and lead system.

PATIENT MANAGEMENT GUIDANCE
This document is useful to health care professionals who perform medical procedures on patients with Medtronic implanted cardiac device systems and who consult with the patients' cardiologists.

Labeling
VIVA™ CRT-P C6TR01 Clinician Manual. Manual Document Number: M956337A001 REV. C, www.medtronic.com/manuals

ENRHYTHM® P1501DR Reference Manual. Manual Document Number: M950679A001 REV. B, www.medtronic.com/manuals

SYNCRA® CRT-P C2TR01 Clinician Manual. Manual Document Number: M950693A001 REV. C, www.medtronic.com/manuals

CONSULTA® CRT-P C4TR01 Clinician Manual. Manual Document Number: M950678A001 REV. C, www.medtronic.com/manuals

Medtronic Engineering the extraordinary

External Defibrillation and Cardioversion

CRM Technical Services Standard Letter

REVO MRI® SURESCAN® RVDR01 Implant Manual. Manual Document Number: M954624A001 REV. A, www.medtronic.com/manuals

Additional comments

For further information please contact the following:

Technical questions: Medtronic Technical Services can answer additional questions regarding these device operations.

Device labeling: For additional device-specific guidance**,** consult the labeling associated with the device available on the Medtronic Manual Library website at www.medtronic.com/manuals

How to contact U.S. CRM Technical Services: Email: tshelp@medtronic.com
Pacemakers: (800) 505-4636, ICDs: (800) 723-4636, Programmer Support: (800) 638-1991

This information is verified for devices approved in the U.S. and may differ by country. For product-specific information on device operation and indications for use, reference the appropriate product labeling.