The guidance provided in this letter is for healthcare providers and Medtronic representatives, and it applies to the following Medtronic devices types and products:

- ICD – Implantable Cardioverter Defibrillators
- CRT-D – Cardiac Resynchronization Therapy Defibrillators

Overview

Patients with implantable cardioverter-defibrillators (ICDs or CRT-Ds) may be subjected to procedures in which electromagnetic interference producing equipment (e.g. electro-surgery, cautery or RF ablation) is used. Some types of interference may not be filtered out by the ICD or CRT-D sensing and may be erroneously interpreted as a rapid heart rate. If persistent enough, this interference could cause the tachyarrhythmia detection criterion to be met and a tachyarrhythmia therapy to be inappropriately delivered.

All Medtronic ICD and CRT-D devices are designed to temporarily suspend tachyarrhythmia detection while a magnet is positioned over the device. If a health care provider determines that the benefits of an EMI producing medical procedure outweigh the risks of suspending tachyarrhythmia detection, she/he may choose to place the Medtronic magnet over the device to mitigate the effects of inappropriate delivery of tachyarrhythmia therapy. The ICD/CRT-D will not interpret the Electromagnetic Interference (EMI) as an arrhythmia since detection is suspended while the magnet is in place. Magnet removal returns the device to permanent programmed operation.

Note: If the device has Patient Alert™/ Care Alert™ Self-monitoring, you may hear constant tone for 10-30 seconds when the magnet is first applied. If a pulsing tone or high/low alternating tone is heard with magnet application the patient should be scheduled for a device interrogation. For further information on use of the Mode 9466 Magnet, review the Manual (available at http://manuals.medtronic.com/manuals/main/us/en_US/home; manual document number 197773001)

Warnings & Precautions:

- ICD temporarily suspends its tachyarrhythmia detection and therapy operation while magnet is in place. Removing the magnet restores the ICD to its permanent programmed operation.
- The magnet does not affect the ICD's bradycardia pacing operations.
- To ensure tachyarrhythmia therapy if necessary, the patient should not carry, store, or leave the magnet positioned over the ICD.
- The patient should be careful to avoid sources of electromagnetic interference (EMI) while applying the magnet.

Figure 1: Medtronic Magnet (Model 174105 and Model 9466) Description: Blue-coated, ring-shaped permanent ferrous magnet with minimum field strength of 90 Gauss when measured 1.5 inches from either flat side of the magnet. See next page for magnet storage and handling instructions.
MAGNET STORAGE and HANDLING

- The magnet could damage some electronic devices if kept too close.
- Keep the magnet at least 15cm (six inches) from electronic devices and recordings: VCR’s, televisions and videotapes; bank and credit cards, cordless and cellular telephones, computers, diskettes, calculators etc.
- Keep the magnet at least 5cm (two inches) from watches and clocks.
- If soiled, the magnet can be wiped clean with a soft cloth or a sponge or washed with a non-abrasive cleanser. The magnet is not damaged by being submerged in water.