

IMAGEREADY™ MR-Conditional System

Transvenous Defibrillation Systems

Cardiology/Radiology Checklists					
Patient name:				Date of Birth:	
N	Model: RV Lead Model: Atrial Le		Atrial Lead	d Mod	el: LV Lead Model:
	Γhe following co an MRI scan:	onditions must be met in order fo	r a patient with a	Bosto	on Scientific ImageReady MR-Conditional System to undergo
For Cardiologists ~ MRI Conditions for Use 1			· Use 1	For Radiologists ~ MRI Conditions for Us 1	
	System			MRI magnet strength of 1.5T only	
					Radio frequency (RF) field of approximately 64 MHz
	components,	re or abandoned implanted devi or accessories present such as enders, leads or pulse generato	lead		Maximum spatial gradient no greater than 20T/m (2,000 G/cm)
	Pulse generat	tor in MRI Protection Mode duri	ng scan		Horizontal, 1H proton, closed bore scanners only
	patient must b	RI Protection Mode is programme continuously monitored by purdiography (ECG). Ensure backernal rescue).	ılse oximetry		Specific Absorption Rate (SAR) limits for the entire active scan: Normal Operating Mode Whole body averaged, 2.0 W/Kg
	Patient is judged to be clinically capable of tolerating no Tachycardia protection for the entire duration in which the pulse generator is in MRI Protection Mode.			■ Head, 3.2 W/Kg	
			in which the		Maximum specified gradient slew rate: 200 T/m/s per axis
		tor implant location restricted to	implant location restricted to left or right		There are no restrictions for positioning the transvenous defibrillation system within the integrated body coil of the MRI scanner. The use of receive-only coils is not
) weeks have elapsed since imp ad revision or surgical modificat stem			restricted. Local transmit coils may be used, but should not be placed directly over the transvenous defibrillation system.
	No evidence of fractured lead or compromised pulse generator-lead system integrity.			Patient in supine or prone position only	
					Patient must be continuously monitored by pulse oximetry and electrocardiography (ECG) for the entire duration in

This form may contain patient confidential information.

which the pulse generator is in MRI Protection Mode. Ensure backup therapy is available (external rescue).

If you receive this form in error, please do not forward it and contact Boston Scientific Technical Services at (800) 227-3422.

Please refer to the MRI Technical Guide: ImageReadyTM MRI Defibrillation System as the system is designated as MR-Conditional in accordance with specific conditions.

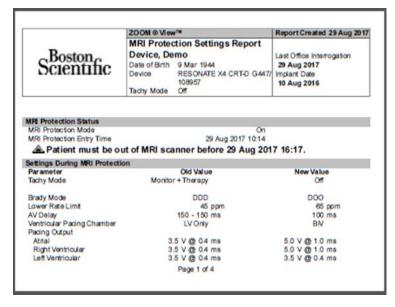
Cardiology/Radiology Checklists for Transvenous Defibrillation Systems

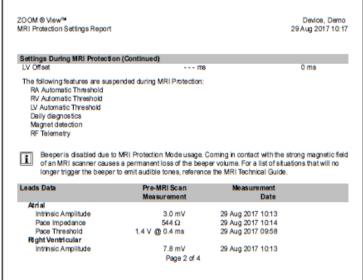
A sample patient flow sequence for an ImageReady MR-Conditional System patient who needs an MRI scan is described below. For a more detailed description of the programming and scanning procedure, see the MRI Technical Guide for the ImageReady MR Conditional Defibrillation System, or visit www.BostonScientific.com/imageready.

Sample Patient Flow

- 1. MRI recommended to patient by specialist (for example, orthopedist or oncologist).
- 2. Patient or specialist or radiologist contacts the electrophysiologist/cardiologist who manages the patient's MR Conditional System.
- Electrophysiologist/cardiologist determines patient eligibility for scan per the information in the ImageReady Defibrillator MRI Technical Guide, and ensures communication of patient eligibility to HCP's involved in performing the MRI scan. Before an MRI procedure is performed, a physician and patient should weigh the benefit of the MR procedure against the risk of losing the Beeper.
- 4. If the patient is eligible, the programmer is used to put the pulse generator in MRI Protection Mode as close in time to the scan as reasonable. Ensure continuous monitoring of the patient while in MRI Protection Mode. The MRI Protection Settings Report is printed (see Figure 1), placed in the patient's file, and provided to the radiology personnel. The report documents MRI Protection Mode settings and details. If the Time-out feature is used, the report includes the exact time and date when MRI Protection Mode will expire.
- 5. The radiologist checks the patient file and any communication from the electrophysiologist/cardiologist. If the Time-out feature is used, the radiologist verifies that adequate time remains to complete the scan. Ensure continuous monitoring of the patient before, during, and after the MRI scan.
- 6. Patient undergoes scan according to the conditions for use described in the ImageReady MR Conditional Defibrillation System MRI Technical Guide
- 7. The pulse generator is returned to pre-MRI operation, either automatically if the Time-out parameter was set, or manually using the programmer. Perform follow-up testing of the implanted system after exiting MRI Protection Mode and continue patient monitoring until the pulse generator is returned to pre-MRI operation. It is strongly recommend that patients are followed on LATITUDE NXT after an MRI scan if they are not already. Otherwise, an in-clinic follow-up schedule of every three months is strongly recommended to monitor device performance.
- 8. The Beeper will remain OFF upon exiting MRI Protection Mode. If desired, the user can manually attempt to re-enable the Beeper. Refer to the MRI Technical Guide: ImageReady TM MR Conditional Defibrillation System.

Figure 1





CRT-D Systems - RESONATE™HF, RESONATE™, RESONATE™X4, VIGILANT™, VIGILANT™X4, MOMENTUM™, MOMENTUM™ X4

INDICATIONS AND USAGE

These Boston Scientific Cardiac Resynchronization Therapy Defibrillators (CRT-Ds) are indicated for patients with heart failure who receive stable optimal pharmacologic therapy (OPT) for heart failure and who meet any one of the following classifications: Moderate to severe heart failure (NYHA Class III-IV) with EF \leq 35% and QRS duration \geq 120 ms; left bundle branch block (LBBB) with QRS duration \geq 130 ms, EF \leq 30%, and mild (NYHA Class II) ischemic or nonischemic heart failure or asymptomatic (NYHA Class II) ischemic heart failure

CONTRAINDICATIONS

There are no contraindications for this device.

WARNINGS

Read this manual thoroughly before implantation to avoid damage to the pulse generator and/or lead. For single patient use only. Do not reuse, reprocess, or resterilize. Always have external defibrillation equipment available during implant and electrophysiologic testing. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external rescue. Do not use defibrillation patch leads with the pulse generator system. Do not use this pulse generator with another pulse generator. Program the pulse generator Tachy Mode(s) to Off during implant, explant, or postmortem procedures. Do not kink, twist, or braid the lead with other leads. For leads that require the use of a Connector Tool, use caution handling the lead terminal when the Connector Tool is not present on the lead. Do not directly contact the lead terminal with any surgical instruments or electrical connections such as PSA (alligator) clips, ECG connections, forceps, hemostats, and clamps. Do not contact any other portion of the DF4-LLHH or DF4-LLHO lead terminal, other than the terminal pin, even when the lead cap is in place. Do not contact any other portion of the IS4-LLLL lead terminal, other than the terminal pin, even when the lead cap is in place. When implant a system that uses both a DF4-LLHH or DF4-LLHO and IS4-LLLL lead, ensure that the leads are inserted and secured in the appropriate ports. Do not use atrial tracking modes in patients with chronic refractory atrial tachyarrhythmias. Do not use atrial-only modes in patients with heart failure. Left ventricular lead dislodgement to a position near the atria can result in atrial oversensing and left ventricular pacing inhibition. Physicians should use medical discretion when implanting this device in patients who present with slow VT. Advise patients to seek medical guidance before entering environments that could adversely affect the operation of the active implantable medical device, including areas protected by a warning notice that prevents entry by patients who have a pulse generator. RESONATE HF, RESONATE, and VIGILANT devices with an IS-1/DF4/IS4 lead connection are considered MR Conditional. For these devices, unless all of the MRI Conditions of Use are met, MRI scanning of the patient does not meet MR Conditional requirements for the implanted system, and significant harm to or death of the patient and/or damage to the implanted system may result. For potential adverse events applicable when the Conditions of Use are met or not met, refer to the MRI Technical Guide.. Do not subject a patient with an implanted pulse generator and/or lead to diathermy. If desired, ensure that Patient Triggered Monitor (PTM) is enabled prior to sending the patient home by confirming the magnet response is programmed to Store EGM. Once the PTM feature has been triggered and the magnet response set to Inhibit therapy the patient should not reapply the magnet.

For specific information on precautions, refer to the following sections of the product labeling: clinical considerations, sterilization and storage, implantation, device programming, environmental and medical therapy hazards, hospital and medical environments, home and occupational environments, follow-up testing, explant and disposal, supplemental precautionary information. Advise patients to avoid sources of EMI because EMI may cause the pulse generator to deliver inappropriate therapy or inhibit appropriate therapy.

POTENTIAL ADVERSE ÉVENTS

Potential adverse events include, but are not limited to, the following: allergic/physical/physicologic reaction, death, erosion/migration, fibrillation or other arrhythmias, lead or accessory breakage (fracture/insulation/lead tip), hematoma/seroma, inappropriate or inability to provide therapy (shocks /pacing/sensing), infection, procedure related, and component failure. Patients may develop psychological intolerance to a pulse generator system and may experience fear of shocking, fear of device failure, or imagined shocking. In rare cases severe complications or device failures can occur.

Refer to the product labeling for specific indications, contraindications, warnings/precautions and adverse events. Rx only.(Rev B)

ICD Systems – RESONATE™ HF, RESONATE™ EL, PERCIVA™ HF, PERCIVA™, VIGILANT™ EL, MOMENTUM™ EL

INDICATIONS AND USAGE

Boston Scientific implantable cardioverter defibrillators (ICDs) are intended to provide ventricular antitachycardia pacing (ATP) and ventricular defibrillation for automated treatment of life-threatening ventricular arrhythmias.

CONTRAINDICATIONS

Use of these Boston Scientific pulse generators are contraindicated for the following: patients whose ventricular tachyarrhythmias may have reversible cause, such as: digitalis intoxication, electrolyte imbalance, hypoxia, sepsis; or patients whose ventricular tachyarrhythmias have a transient cause, such as: acute myocardial infarction (MI), electrocution, drowning; or patients who have a unipolar pacemaker.

WARNINGS

Read this manual thoroughly before implantation to avoid damage to the pulse generator and/or lead. For single patient use only. Do not reuse, reprocess, or resterilize. Always have external defibrillation equipment available during implant and electrophysiologic testing. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external rescue. Do not use this pulse generator with another pulse generator. Program the pulse generator Tachy Mode(s) to Off during implant, explant, or postmortem procedures to avoid inadvertent high voltage shocks. Do not kink, twist, or braid the lead with other leads as doing so could cause lead insulation abrasion damage or conductor damage. For leads that require the use of a Connector Tool, use caution handling the lead terminal when the Connector Tool is not present on the lead. Do not directly contact the lead terminal with any surgical instruments or electrical connections such as PSA (alligator) clips, ECG connections, forceps, hemostats, and clamps. Do not contact any other portion of the DF4-LLHO lead terminal, other than the terminal pin, even when the lead cap is in place. Do not use atrial tracking modes in patients with chronic refractory atrial tachyarrhythmias. Tracking of atrial arrhythmias could result in ventricular tachyarrhythmias. Advise patients to seek medical guidance before entering environments that could adversely affect the operation of the active implantable medical device, including areas protected by a warning notice that prevents entry by patients who have a pulse generator. RESONATE HF, RESONATE, PERCIVA HF, PERCIVA, and VIGILANT devices with a DF4 right ventricular lead connection are considered MR Conditional. For these devices, unless all of the MRI Conditions of Use are met, MRI scanning of the patient does not meet MR Conditional requirements for the implanted system, and significant harm to or death of the patient and/or damage to the implanted system may result. For potential adverse events applicable when the Conditions of Use are met or not met, refer to the MRI Technical Guide. Do not subject a patient with an implanted pulse generator and/or lead to diathermy. If desired, ensure that Patient Triggered Monitor is enabled prior to sending the patient home. Once the Patient Triggered Monitor feature has been triggered by the magnet and an EGM has been stored, or after 60 days have elapsed from the day that Store EGM was enabled, the patient should not apply the magnet.

PRECAUTIONS

For specific information on precautions, refer to the following sections of the product labeling: clinical considerations, sterilization and storage, implantation, device programming, environmental and medical therapy hazards, hospital and medical environments, home and occupational environments, follow-up testing, explant and disposal, and supplemental precautionary information.

POTENTIAL ADVERSE EVENTS

Potential adverse events include, but are not limited to, the following: allergic/physical/physicalogic reaction, death, erosion/migration, fibrillation or other arrhythmias, lead or accessory breakage (fracture/insulation/lead tip), hematoma/seroma, inappropriate or inability to provide therapy (shocks /pacing/sensing), infection, procedure related, and component failure. Patients may develop psychological intolerance to a pulse generator system and may experience fear of shocking, fear of device failure, or imagined shocking. In rare cases severe complications or device failures can occur.

Refer to the product labeling for specific indications, contraindications, warnings/precautions and adverse events. Rx only.(Rev B)



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