

# Cardiology / Radiology Checklists

## IMAGEREADY™

### MR-Conditional Transvenous Defibrillation Systems

MODEL #s	ICD/CRT-D	ATRIAL LEAD	RV LEAD	LV LEAD
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Use the following checklists to ensure that patients who have a Boston Scientific Transvenous Defibrillation System labeled MR-Conditional can receive an MR-Conditional scan. Only specific combinations of Boston Scientific MR-Conditional pulse generators and MR-Conditional leads constitute a valid ImageReady™ MR-Conditional Transvenous Defibrillation System for use in a 1.5 or 3 Tesla environment. **To distinguish between combinations that are valid for use with 1.5 T or 3 T scanners, model numbers of the MR Conditional Defibrillation System components are provided in the *Boston Scientific MRI Technical Guide, ImageReady™ MR-Conditional Transvenous Defibrillation System.***

<b>RESOURCES</b>	<p>Confirm that the patient has a valid ImageReady™ MR-Conditional Transvenous Defibrillation System by referring to the below resources:</p> <ul style="list-style-type: none"> <li>▶ Boston Scientific MRI Technical Guide, ImageReady™ MR-Conditional Transvenous Defibrillation System</li> <li>▶ <a href="http://www.BostonScientific.com/imageready">www.BostonScientific.com/imageready</a></li> <li>▶ Boston Scientific MRI Hotline 1.844.4.BSC.MRI (1.844.427.2674)</li> </ul>
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<b>CARDIOLOGY CONDITIONS OF USE<sup>1</sup></b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Patient is implanted with an ImageReady™ MR-Conditional Transvenous Defibrillation System</li> <li><input type="checkbox"/> No other active or abandoned implanted devices, components, or accessories present, such as lead adaptors, extenders, leads or pulse generators</li> <li><input type="checkbox"/> Pulse generator in MRI Protection Mode during scan</li> <li><input type="checkbox"/> As soon as MRI Protection Mode is programmed, the patient must be continuously monitored by pulse oximetry and electrocardiography (ECG). Ensure backup therapy is available (external rescue)</li> <li><input type="checkbox"/> 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</li> <li><input type="checkbox"/> Pulse generator implant location restricted to left or right pectoral region</li> <li><input type="checkbox"/> At least six (6) weeks have elapsed since implantation and/or any lead revision or surgical modification of the MR-Conditional Transvenous Defibrillation System</li> <li><input type="checkbox"/> No evidence of a fractured lead or compromised pulse generator-lead system integrity</li> </ul>
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<b>RADIOLOGY CONDITIONS OF USE<sup>1</sup></b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Horizontal, hydrogen proton, closed bore scanners only</li> <li><input type="checkbox"/> MRI magnet strength of 1.5 T (64 MHz) or 3 T (128 MHz)</li> <li><input type="checkbox"/> Spatial gradient no greater than 20 T/m (2,000 G/cm).</li> <li><input type="checkbox"/> RF exposure limits: <ul style="list-style-type: none"> <li><u>1.5 T</u> <ul style="list-style-type: none"> <li>• Normal Operating Mode<sup>a</sup> must be observed for the entire active scan session (whole body averaged SAR ≤ 2.0 watts/kilogram (W/kg); Head SAR, ≤ 3.2 W/kg)</li> </ul> </li> <li><u>3 T (Patient landmark/scan isocenter at or superior to the C7 vertebra)</u> <ul style="list-style-type: none"> <li>• Normal Operating Mode or First Level Controlled Operating Mode must be observed for the entire active scan session</li> </ul> </li> <li><u>3 T (Patient landmark/scan isocenter inferior to the C7 vertebra)</u> <ul style="list-style-type: none"> <li>• B<sub>1+rms</sub> must be ≤ 2.8 microtesla (μT)</li> </ul> </li> </ul> </li> <li><b>WARNING:</b> If the B<sub>1+rms</sub> parameter value is not displayed on the 3 T MRI scanner system, do not perform 3T scans with a patient landmark (scan isocenter) inferior to the C7 vertebrae. Such scans do not meet the Radiology Conditions of Use.</li> <li><input type="checkbox"/> Gradient Field limits – Maximum specified gradient slew rate: ≤ 200 T/m/s per axis</li> <li><input type="checkbox"/> There are no restrictions for positioning the defibrillation system within the integrated body coil of the MRI scanner. The use of receive-only coils is not restricted. <u>Local transmit coils</u> may be used but should not be placed directly over the defibrillation system</li> <li><input type="checkbox"/> Patient in supine or prone position only</li> <li><input type="checkbox"/> Patient must be continuously monitored by pulse oximetry and electrocardiography (ECG) for the entire duration in which the pulse generator is in MRI Protection Mode. Ensure backup therapy is available (external rescue)</li> <li><b>IMPORTANT:</b> If you are unfamiliar with B<sub>1+rms</sub>, or are unsure if it is available on your 3 T scanner, either limit scans to 1.5 T and Normal Mode, or contact the MRI scanner manufacturer for more information</li> </ul>
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<sup>a</sup> As defined in IEC 60601-2-33, 201.3.224, 3<sup>rd</sup> Edition.  
<sup>1</sup> Refer to the MRI Technical Guide: ImageReady™ MRI Defibrillation System as the system is designated as MR-Conditional in accordance with specific conditions.  
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