ImageReady[™] Supported Devices Pacing Systems



ImageReady™ MR Conditional Pacing System Components for 1.5T and 3T¹

			4 ==
Component	Model Number(s)	3T	1.5T
Pulse Generators			
PROPONENT™ MRI	L210, L211, L231	✓	✓
ACCOLADE™ MRI	L310, L311, L331	1	✓
ADVANTIO™ MRI	K085, K086, K087		1
INGENIO™ MRI	K185, K186, K187		1
VITALIO™ MRI	K285, K286, K287		1
FORMIO™ MRI	K289		1
Leads and Accessories			
INGEVITY™ MRI Leads			
INGEVITY™ MRI Pacing Leads	7731, 7732, 7735, 7736, 7740, 7741, 7742	1	1
Suture Sleeve for INGEVITY™ MRI Pacing Leads	6402	1	1
IS-1 Lead-Port Plug	7145	✓	✓
FINELINE™ II Sterox / Sterox EZ Leads			
FINELINE™ II Sterox Pacing Lead	4456, 4457, 4458, 4459, 4479, 4480		1
FINELINE™ II Sterox EZ Pacing Lead	4469, 4470, 4471, 4472, 4473, 4474		1
Suture Sleeve for FINELINE $^{\text{\tiny{IM}}}$ II Pacing Leads	6220, 6221		✓
IS-1 Lead-Port Plug	7145		/

For conditions of use and scan conditions, refer to ImageReady™ MR Conditional Pacing System Technical Guide 359489-01 EN Australia 2016-12.



ImageReady[™] Supported Devices ICDs and CRT-Ds



ImageReady™ MR Conditional Defibrillation System Components for 1.5T¹

Component	Model Number(s)	1.5T
Pulse Generators		
AUTOGEN™, DYNAGEN™, RESONATE™ EL ICD	D150, D152, D174, D176, D432, D433	1
AUTOGEN™, DYNAGEN™ Mini ICD	D020, D022, D044, D046	1
AUTOGEN™, DYNAGEN™, RESONATE™ CRT-D	G158, G179, G447	✓
EMBLEM™, EMBLEM™ MRI S-ICD	A209, A219	1
Leads and Accessories		
FINELINE™ II Sterox Pacing Leads	4479, 4480	1
FINELINE™ II Sterox EZ Pacing Leads	4469, 4470, 4471, 4472, 4473, 4474	1
Suture Sleeve for FINELINE™ II Leads	6220, 6221	1
INGEVITY™ MRI Pacing Leads	7735, 7736, 7740, 7741, 7742	1
Suture Sleeve	6402, 6403, 4603	1
Lead Port Plug	7145, 7148	1
ENDOTAK RELIANCE® (DF4) Defibrillation Leads	0262, 0263, 0265, 0266, 0272, 0273, 0275, 0276, 0282, 0283, 0285, 0286, 0292, 0293, 0295, 0296	1
RELIANCE 4-FRONT™ Defibrillation Leads	0636, 0650, 0651, 0652, 0653, 0654, 0655, 0657, 0658, 0662, 0663, 0665, 0672, 0673, 0675, 0676, 0682, 0683, 0685, 0686, 0692, 0693, 0695, 0696	✓
ACUITY™ X4 Pacing Leads	4671, 4672, 4674, 4675, 4677, 4678	✓
EMBLEM™ S-ICD Electrode	All Models	1
Cameron Health Q-TRAK S-ICD Electrode	All Models	✓
S-ICD Electrode Suture Sleeve	All Models	1

^{1.} For conditions of use and scan conditions, refer to MRI Technical Guide ImageReady™ MR Conditional Defibrillation System 92138524-001 EN Australia 2018-02 and ImageReady MR Conditional S-ICD System 359475-001 EN Europe 2015-11





Cardiology Order Form

IMAGEREADY™

MR-Conditional Systems

PATIENT NAME

D.O.B.

PG MODEL#

ATRIAL LEAD

RV LEAD

LV LEAD

ELECTRODE

According to Boston Scientific's device labeling, the following Conditions of Use <u>MUST BE MET</u> for a patient with an ImageReady™ Pacing System, Transvenous Defibrillation System, or EMBLEM™ S-ICD System to undergo an MR-Conditional scan. Adherence to the Conditions of Lice MUST BE VEDICIED prior to each scan to encure that the most up to date information has been used to

	eligibility and readiness for an MR-Conditional scan.			
RESOURCES	Confirm that patient has a complete ImageReady™ MR-Conditional System by referring to the below resources: ▶ Boston Scientific MRI Technical Guide www.bostonscientific.com/manuals/ ▶ Boston Scientific ImageReady™ Website www.BostonScientific.com/imageready ▶ Boston Scientific Technical Services Hotline 1800 245 559 (Australia), 0800 742 678 (New Zealand)			
OFF-LABEL MRI SCAN	4 0 Pg (11 Pg 11 1 B 4 H 0 Pg (11 1 1 1 4 H 1 1 H 1 1 H 1 1 H 1 H 1 H 1			
CONDITIONS OF USE	 Pulse generator in MRI Protection Mode during scan. Bipolar pacing operation or pacing off. No other active or abandoned implanted devices, components, or accessories present, such as lead adapters, extenders, leads, or pulse generators. As soon as MRI Protection Mode is programmed, the patient must be continuously monitored by pulse oximetry and/or electrocardiography (ECG). Ensure backup therapy is available (external rescue). Patient does not have elevated body temperature or compromised thermoregulation at time of scan. 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. 			
	 □ (Transvenous Systems only) Pulse generator implant location restricted to left or right pectoral region. □ At least six (6) weeks have elapsed since implantation and/or any electrode revision or surgical modification of the ImageReady™ MR-Conditional System. □ No evidence of a fractured electrode or compromised pulse generator-electrode system integrity. □ Pacing threshold ≤ 2.0 V in pace-dependent patients. 			
MRI PROTECTION MODE PARAMETERS	Defibrillation therapy will be disabled while in MRI Protection Mode. Program MRI Protection Mode during scan with these parameters. Pacing OFF DOO Pacing Rate BPM or BPM above average intrinsic rate to a max of BPM voo Pacing Rate BPM or BPM above average intrinsic rate to a max of BPM AOO Pacing Rate BPM or BPM above average intrinsic rate to a max of BPM ventricular Pacing Chamber RV BiV Atrial Amplitude V@ 1.0 ms PW RV Amplitude V@ 1.0 ms PW LV Amplitude V@ ms PW MRI Protection Timeout 3H 6H (Defib nominal) 9H 12H 24H (Pacer nominal) Time-out OFF Do not leave the pulse generator in MRI Protection Mode any longer than necessary following the scan. Beeper may no longer be usable following MRI scan.			
DATE	PHYSICIAN NAME PHYSICIAN SIGNATURE			
	THE STATE OF THE PROPERTY OF THE STATE OF TH			

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Cardiology and Radiology Checklists

IMAGEREADY TM

MR-Co	nditional
Pacing	Systems

PATIENT NAME

D.O.B.

Pacing Syste	ems				
PG MODEL#		ATRIAL LEAD	RV LEAD		
Use the following checklists to ensure that patients who have a Boston Scientific Pacing System labeled MR-Conditional can receive a MR-Conditional scan. Only specific combinations of Boston Scientific MR-Conditional pulse generators and MR-Conditional leads/electrodes constitute a valid ImageReady™ MR-Conditional Pacing System for use in 1.5 Tesla or 3 Tesla environments.					
RESOURCES	Confirm that patient has a complete ImageReady™ MR-Conditional System by referring to the below resources: ▶ Boston Scientific MRI Technical Guide www.bostonscientific.com/manuals/ ▶ Boston Scientific ImageReady™ Website www.BostonScientific.com/imageready ▶ Boston Scientific Technical Services Hotline 1800 245 559 (Australia), 0800 742 678 (New Zealand)				
OFF-LABEL MRI SCAN	MEET the Conditions label. Boston Scientif	s of Use listed below. Because ic labeling warns of potential ri Use the Cardiology Order Form	ady [™] MR-Conditional Pacing System and/or <u>DOES NOT</u> not all Conditions of Use have been met, the scan is off-sks for off-label MRI scans and does not promote nor a <i>Off-Label MRI Scan</i> to specify programming parameters		
CARDIOLOGY CONDITIONS OF USE	or port plug. □ Pulse generator in MI □ Bipolar pacing operat □ No other active or about adapters, extenders, □ As soon as MRI Prote oximetry and/or elect □ Patient does not have □ At least six (6) weeks of the ImageReady™ □ No evidence of a fractive six of the ImageReady™	RI Protection Mode during scation or pacing off. andoned implanted devices, colleads, or pulse generators. ection Mode is programmed, the rocardiography (ECG). Ensure the elevated body temperature of the have elapsed since implantation of the process.	omponents, or accessories present, such as lead ne patient must be continuously monitored by pulse backup therapy is available (external rescue). r compromised thermoregulation at time of scan. on and/or any electrode revision or surgical modification m. ed pulse generator-electrode system integrity.		
RADIOLOGY CONDITIONS OF USE	☐ Specific Absorption R Whole body average		 Spatial gradient no greater than 50 T/m (5,000 G/cm) over the pacing system for 1.5T or 3T active scan – Normal Operating Mode¹ ad, ≤ 3.2 W/Kg slew rate ≤ 200 T/m/s per axis. 		

1 As defined in IEC 60601-2-33, 201.3.244, 3rd Edition.

directly over the pacing system.

☐ Patient in supine or prone position only.

the patient require external rescue.

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☐ There are no restrictions for positioning the pacing system within the integrated body coil of the MRI scanner. The use of receive-only coils is not restricted; local transmit coils may be used but should not be placed

□ Patient must be continuously monitored during the MRI scan by pulse oximetry and/or electrocardiography.

NOTE Ensure that external defibrillator and medical personnel skilled in CPR are present during the MRI scan should



Cardiology and Radiology Checklists

IMAGEREADY™

MR-Conditional **Defibrillation Systems**

PATIENT NAME D.O.B. PG MODEL# **ATRIAL LEAD** LV LEAD **RV LEAD ELECTRODE** Use the following checklists to ensure that patients who have a Boston Scientific Transvenous Defibrillation System, or EMBLEM™ MRI S-ICD System labeled MR-Conditional can receive a MR-Conditional scan. Only specific combinations of Boston Scientific MR-Conditional pulse generators and MR-Conditional leads/electrodes constitute a valid ImageReady™ MR-Conditional System for use in 1.5 Tesla environment. RESOURCES Confirm that patient has a complete ImageReady™ MR-Conditional System by referring to the below resources: ▶ Boston Scientific MRI Technical Guide www.bostonscientific.com/manuals/ ▶ Boston Scientific ImageReady™ Website <u>www.BostonScientific.com/imageready</u> ▶ Boston Scientific Technical Services Hotline 1800 245 559 (Australia), 0800 742 678 (New Zealand) My patient <u>DOES NOT HAVE</u> a complete ImageReady™ MR-Conditional Pacing System and/or <u>DOES NOT</u> **MRI SCAN** MEET the Conditions of Use listed below. Because not all Conditions of Use have been met, the scan is offlabel. Boston Scientific labeling warns of potential risks for off-label MRI scans and does not promote nor encourage this use. Use the Cardiology Order Form Off-Label MRI Scan to specify programming parameters during off-label MRI scans. CARDIOLOGY | Patient is implanted with an ImageReady™ Transvenous Defibrillation System, or EMBLEM™ MRI S-ICD CONDITIONS System with all ports occupied by a lead or port plug. **OF USE** ☐ Pulse generator in MRI Protection Mode during scan. ☐ Bipolar pacing operation or pacing off. $\ \square$ No other active or abandoned implanted devices, components, or accessories present, such as lead adapters, extenders, leads, or pulse generators. ☐ As soon as MRI Protection Mode is programmed, the patient must be continuously monitored by pulse oximetry and/or electrocardiography (ECG). Ensure backup therapy is available (external rescue). ☐ Patient does not have elevated body temperature or compromised thermoregulation at time of scan. ☐ 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. □ Pulse generator implant location restricted to left or right pectoral region. ☐ At least six (6) weeks have elapsed since implantation and/or any electrode revision or surgical modification of the ImageReady™ MR-Conditional System. No evidence of a fractured electrode or compromised pulse generator-electrode system integrity. □ Pacing threshold ≤ 2.0 V in pace-dependent patients. RADIOLOGY ☐ MRI magnet strength of 1.5T only. **CONDITIONS** OF USE Radio Frequency (RF) field of approximately 64 MHz. ☐ Maximum spatial gradient 20 T/m (2,000 G/cm). ☐ Horizontal, ¹H proton, closed bore scanners only. ☐ Specific Absorption Rate (SAR) limits for the entire active scan – Normal Operating Mode¹ Whole body averaged, ≤ 2.0 W/Kg · Head, ≤ 3.2 W/Kg ☐ Gradient Field limits – Maximum specified gradient slew rate ≤ 200 T/m/s per axis. ☐ There are no restrictions for positioning the Transvenous Defibrillation System, or EMBLEM™ MRI S-ICD System within the integrated body coil of the MRI scanner. The use of receive-only coils is not restricted; local transmit coils may be used but should not be placed directly over the System. ☐ Patient in supine or prone position only. ☐ Patient must be continuously monitored by pulse oximetry and/or electrocardiography (ECG) for the entire

rescue).

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

¹ As defined in IEC 60601-2-33, 201.3.244, 3rd Edition.

² Refer to the MRI Technical Guide: ImageReady™ MRI Defibrillation System as the system is designated as MR-Conditional in accordance with specific conditions.