

# Cardiology Order Form

## Off-Label MRI Scan

PATIENT NAME \_\_\_\_\_

D.O.B. \_\_\_\_\_

An MRI scan has been requested for this patient. Because **NOT ALL CONDITIONS OF USE HAVE BEEN MET**, the scan is off-label. Boston Scientific labeling warns of potential risks for off-label MRI scans and does not promote nor encourage this use.

- RESOURCES**
- ▶ Boston Scientific MRI Technical Guide, ImageReady™ MR-Conditional Pacing System, Transvenous Defibrillation System, and S-ICD System
  - ▶ [www.BostonScientific.com/imageready](http://www.BostonScientific.com/imageready)
  - ▶ Boston Scientific MRI Hotline 1.844.4.BSC.MRI (1.844.427.2674)

**IMPLANTED CARDIAC DEVICE / LEAD MODEL #s**

	DEVICE	ATRIAL LEAD	RV LEAD	LV LEAD	S-ICD ELECTRODE
Pacemaker CRT-P					
Transvenous ICD CRT-D					
S-ICD					

**NOTE** The device-following clinician to order device programming parameters. See BSC programming options below and on reverse side for device programming parameters during MRI scan.

The following information is in response to an order for an MRI scan for a patient with a BSC system that is off-label. This information is provided to aid the clinician in ordering device programming and is intended solely to answer questions to help ensure patient readiness and safety.

**SELECT 1 of 3 PACEMAKER Options**

- 1 Pacing Parameters**  
Select  or
- Pacing Mode  DOO  VOO  AOO  DDI  VVI  AAI      Pacing Rate \_\_\_\_\_ PPM  Pacing OFF  
 AV Delay \_\_\_\_\_ ms      RV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW      Atrial Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW
- Disable magnet response if pacing is enabled. (Recommended)

- 2 Electrocautery Protection Mode**  
Select  or
- ▶ Provides asynchronous pacing in chamber(s) for which 1) normal pacing is enabled; 2) rate is at programmed LRL, output is normal pacing amplitude and pulse width; or 3) no pacing if Brady Pacing is OFF. Magnet function is disabled.

- 3 MRI Protection Mode**  
Select
- ▶ Provides asynchronous pacing (selectable chambers) at 1) programmable voltage; or 2) no pacing. Magnet function is disabled. AV Delay fixed at 100ms. Pulse Width fixed at 1.0ms.
- Pacing Mode  DOO  VOO  AOO      Lower Rate Limit \_\_\_\_\_ PPM  Pacing OFF  
 RV Amplitude \_\_\_\_\_ V@ 1.0 ms PW      Atrial Amplitude \_\_\_\_\_ V@ 1.0 ms PW  
 MRI Protection Time-out  3 H  6 H  9 H  12 H  24 H  48 H  Time-out OFF

Do not leave the pulse generator in MRI Protection Mode any longer than necessary following the scan.

**ATTENTION** If MRI Protection Time-out is programmed OFF, and Brady Mode is OFF, the patient will not receive pacing until reprogrammed.

**SELECT 1 of 3 CRT-P Options**

**ATTENTION** When choosing Brady Mode, consider 1) whether pacing is required; 2) which chamber(s) need to be paced; and 3) risk of worsening heart failure due to loss of CRT and/or AV synchrony.

- 1 Pacing Parameters**  
Select  or
- Ventricular Pacing Chamber  BiV  RV-only      Pacing Mode  DOO  VOO  AOO  DDI  VVI  AAI  
 Pacing Rate \_\_\_\_\_ PPM      Atrial Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW      AV Delay \_\_\_\_\_ ms  Pacing OFF  
 RV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW      LV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW
- Disable magnet response if pacing is enabled. (Recommended)

- 2 Electrocautery Protection Mode**  
Select
- ▶ Provides asynchronous pacing in chamber(s) for which 1) normal pacing is enabled; 2) rate is programmed LRL, output is normal pacing amplitude and pulse width, and pacing is always BiV at zero LV offset; or 3) no pacing if Brady Pacing is OFF. Magnet function is disabled.

- 3 MRI Protection Mode**  
Select
- ▶ Provides asynchronous pacing (selectable chambers) at 1) programmable voltage; or 2) no pacing. Magnet function is disabled. AV Delay fixed @ 100 ms. Pulse Width fixed for RV/RA @ 1.0 ms, programmable for LV.
- Ventricular Pacing Chamber  BiV  RV-only      Pacing Mode  DOO  VOO  AOO       Pacing OFF  
 Pacing Rate \_\_\_\_\_ PPM      Atrial Amplitude \_\_\_\_\_ V@ 1.0 ms PW  
 RV Amplitude \_\_\_\_\_ V@ 1.0 ms PW      LV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW  
 MRI Protection Time-out  3 H  6 H  9 H  12 H  24 H  48 H  Time-out OFF

Do not leave the pulse generator in MRI Protection Mode any longer than necessary following the scan.

**ATTENTION** If MRI Protection Time-out is programmed OFF, and Brady Mode is OFF, the patient will not receive pacing until reprogrammed.

DATE \_\_\_\_\_

PHYSICIAN SIGNATURE \_\_\_\_\_

PHYSICIAN NAME \_\_\_\_\_

**SELECT 1 of 3 TRANSVENOUS ICD Options**

**ATTENTION** When choosing Brady Mode, consider 1) whether pacing is required; 2) which chamber(s) needs to be paced; and 3) risk of induction of VT / VF with asynchronous ventricular pacing.

1 Pacing Parameters  
 Select  or  Pacing Mode  DDI  VVI  AAI  DDD  VDD  Pacing OFF  Disable Tachy Therapy (Recommended)  
 Pacing Rate \_\_\_\_\_ PPM Atrial Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW AV Delay \_\_\_\_\_ ms  
 RV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW

2 Electrocautery Protection Mode  
 Select  or  Provides asynchronous pacing in chamber(s) for which 1) normal pacing is enabled; 2) rate is at programmed LRL, output is normal pacing amplitude and pulse width; or 3) no pacing if Brady Pacing is OFF. Tachy Therapy is disabled. Magnet function is disabled.

3 MRI Protection Mode  
 Select  Provides asynchronous pacing (selectable chambers) at 1) programmable voltage; or 2) no pacing. Tachy Therapy is disabled. Magnet function is disabled. Pulse Width fixed at 1.0ms.

Pacing Mode  DOO  VOO  AOO  Pacing OFF  
 RV Amplitude \_\_\_\_\_ V@ 1.0 ms PW Lower Rate Limit \_\_\_\_\_ PPM  
 Atrial Amplitude \_\_\_\_\_ V@ 1.0 ms PW  
 MRI Protection Time-out  3 H  6 H  9 H  12 H  Time-out OFF

Do not leave the pulse generator in MRI Protection Mode any longer than necessary following the scan.

**ATTENTION** If MRI Protection Time-out is programmed OFF, the patient will not receive Tachy Therapy, and the pacing options are limited to 1) OFF; or 2) asynchronous until the pulse generator is programmed out of MRI Protection Mode and back to normal operation.

**NOTE** Beeper may no longer be usable following MRI scan.

**SELECT 1 of 3 CRT-D Options**

**ATTENTION** When choosing Brady Mode, consider 1) whether pacing is required; 2) which chamber(s) needs to be paced; 3) risk of induction of VT / VF with asynchronous ventricular pacing; and 4) risk of worsening heart failure due to loss of CRT and/or AV induction synchrony.

1 Pacing Parameters  
 Select  or  Ventricular Pacing Chamber  BiV  RV-only Pacing Mode  DDI  VVI  AAI  Pacing OFF  
 Pacing Rate \_\_\_\_\_ PPM Atrial Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW AV Delay \_\_\_\_\_ ms  
 RV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW LV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW Lower Rate Limit \_\_\_\_\_ PPM  
 Disable Tachy Therapy

2 Electrocautery Protection Mode  
 Select  or  Provides asynchronous pacing in chamber(s) for which 1) normal pacing is enabled; 2) rate is at programmed LRL; output is normal pacing amplitude and pulse width, and pacing is always BiV at zero LV offset; or 3) no pacing if Brady Pacing is OFF. Tachy Therapy is disabled. Magnet function is disabled.

3 MRI Protection Mode  
 Select  Provides asynchronous pacing (selectable chambers) at 1) programmable voltage; or 2) no pacing. Magnet function is disabled. AV Delay fixed @ 100 ms. Pulse Width fixed for RV/RA @ 1.0 ms, programmable for LV.

Ventricular Pacing Chamber  BiV  RV-only Pacing Mode  DOO  VOO  AOO  
 Pacing Rate \_\_\_\_\_ PPM Atrial Amplitude \_\_\_\_\_ V@ 1.0 ms PW  Pacing OFF  
 RV Amplitude \_\_\_\_\_ V@ 1.0 ms PW LV Amplitude \_\_\_\_\_ V@ \_\_\_\_\_ ms PW Lower Rate Limit \_\_\_\_\_ PPM  
 MRI Protection Time-out  3 H  6 H  9 H  12 H  Time-out OFF

Do not leave the pulse generator in MRI Protection Mode any longer than necessary following the scan.

If MRI Protection Time-out is programmed to OFF, the patient will not receive Tachy Therapy, and the pacing options are limited to 1) OFF; or 2) asynchronous until the pulse generator is programmed out of MRI Protection Mode and back to normal operation.

**NOTE** Beeper may no longer be usable following MRI scan.

**SELECT 1 of 2 S-ICD Options**

1 Tachy Therapy  
 Select  or  Disable Tachy Therapy

2 MRI Protection Mode  
 Select  Tachy Therapy is disabled. Magnet function is disabled.

MRI Protection Time-out  6 H  9 H  12 H  24 H

Do not leave the pulse generator in MRI Protection Mode any longer than necessary following the scan.

**NOTE** Beeper may no longer be usable following MRI scan.

DATE \_\_\_\_\_

PHYSICIAN SIGNATURE \_\_\_\_\_

PHYSICIAN NAME \_\_\_\_\_