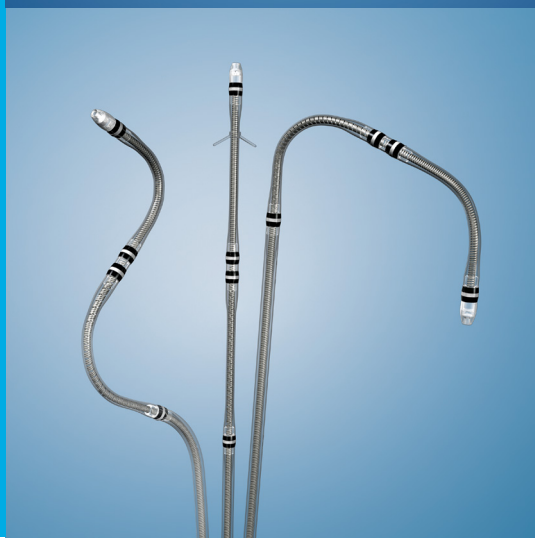
EXPANDED MRI ACCESS

+

ADVANCED QUADRIPOLAR CRT-D TECHNOLOGIES



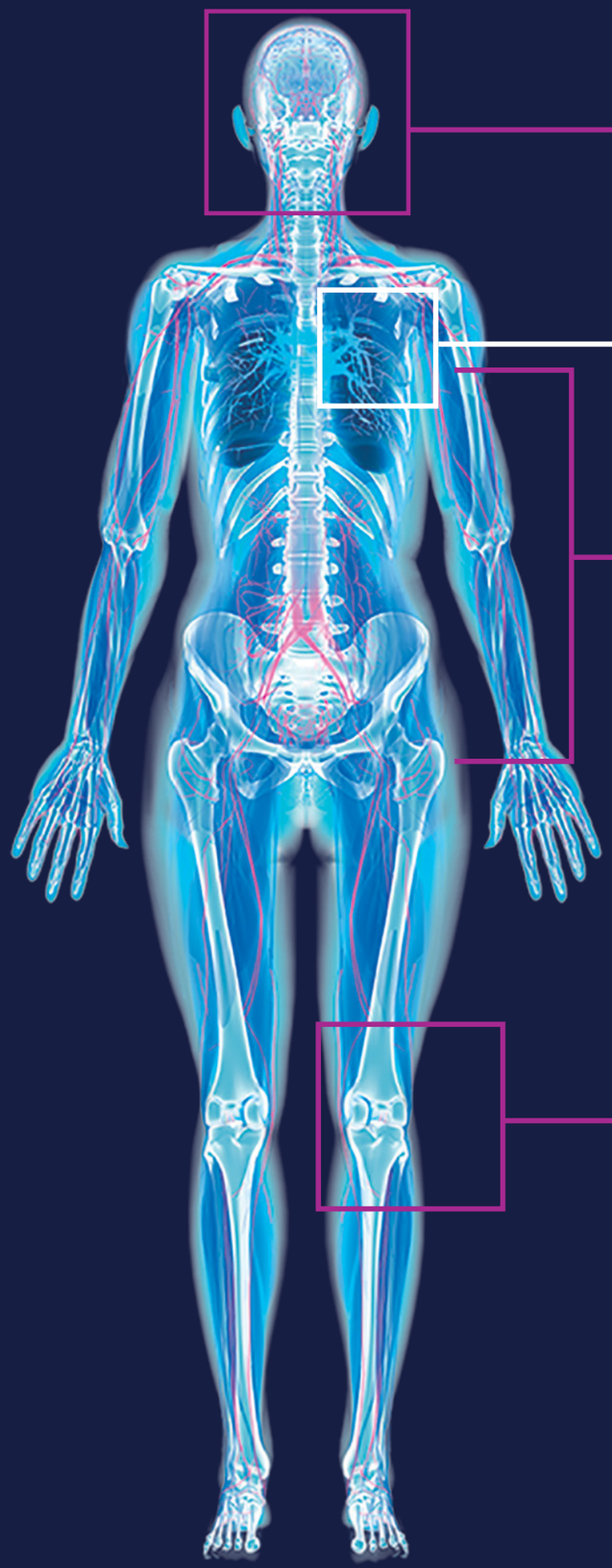
Compia MRI™
Quad CRT-D SureScan™

Medtronic

CRT PATIENTS **ARE NOT RECEIVING MRIs**

41%

of CRT patients are likely to have an MRI ordered over 4 years[1]



Stroke patients with a CRT are not getting optimal diagnostic imaging

28% of non-CRT patients undergo an MRI within 3 days of stroke or TIA diagnostic vs. **0.5%** of patients with a traditional CRT.[1]

Cardiac Scans

Cardiac MRI is an ideal technique for monitoring disease progression and the effects of treatment on heart failure.[2]

Back Pain

16% of non-CRT patients undergo an MRI within 30 days of back pain diagnosis vs. **0.2%** of patients with a traditional CRT.[1]

Joint Pain
(Knees, ankles, elbows, shoulders & wrists)

12% of non-CRT patients undergo an MRI within 30 days of joint pain diagnosis vs. **0.2%** of patients with a traditional CRT.[1]

EXPANDED MRI ACCESS

WITH COMPIA MRI,
PATIENTS HAVE ACCESS TO
1.5T AND 3T FULL BODY SCANNING

3T imaging provides higher resolution images[3-5]

BUILT TO BE **SCANNED**

Our SureScan™ devices and leads work in any combination to provide simplified scanning conditions

We engineered our devices with enhancements to ensure patient safety against:

- ☑ Force, torque and heating
- ☑ Unintended cardiac stimulation
- ☑ Device interactions in the MRI

SIMPLE SCANNING CONDITIONS	No MRI exclusion zone	No MRI duration restriction	No patient height restrictions	SureScan devices and leads work in any combination	1.5T and 3T full body scanning

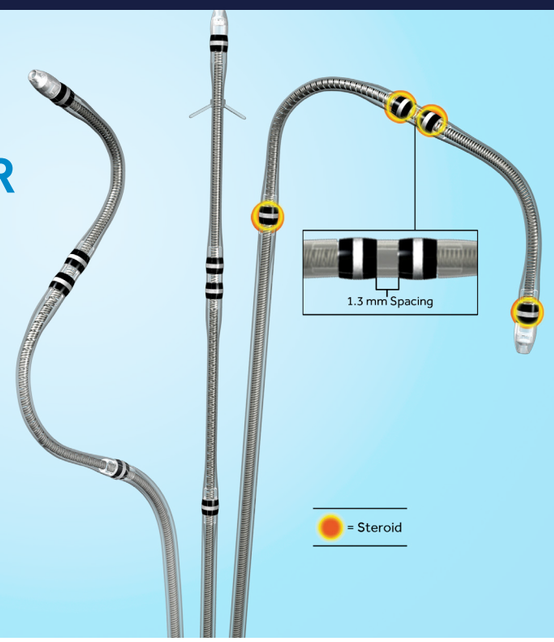
ADVANCED QUADRIPOLAR CRT-D TECHNOLOGIES

VECTOREXPRESS™

Only VectorExpress offers information from all vectors to make the best therapy choice—**in two minutes**

ONLY THE ATTAIN™ PERFORMA™ ADVANCED QUADRIPOLAR LEAD OFFERS

- 3 shapes for varying patient anatomies
- Short bipolar spacing to reduce phrenic nerve stimulation occurrence
- Steroid on all electrodes
  - Improves thresholds
  - Maximises longevity
  - Enables basal pacing



MAXIMISE LONGEVITY

Compare vectors at a glance and see longevity impact per vector.

LV Test Results

LV Pace Polarity: LV3 to LV1 — LV Amplitude: 2.00 V
Sort by: LV Pace Polarity — LV Pulse Width: 0.40 ms

LV Pace Polarity	Relative Longevity	Capture Threshold	Last Impedance	Phrenic Nerve Stim Present?
LV1 to RVcoil	5 months less	0.75 V @ 0.40 ms	418 ohms	No
LV1 to LV2	2 months less	1.00 V @ 0.40 ms	646 ohms	No
LV1 to LV3	2 months less	1.00 V @ 0.40 ms	665 ohms	No
LV1 to LV4	3 months less	1.00 V @ 0.40 ms	608 ohms	No
LV2 to RVcoil	1.2 years less	1.25 V @ 0.40 ms	399 ohms	Yes: 3.00 V @ 0.40 ms
LV2 to LV1	9 months less	1.50 V @ 0.40 ms	646 ohms	No
LV2 to LV3	1.0 years less	1.50 V @ 0.40 ms	513 ohms	No
LV2 to LV4	10 months less	1.50 V @ 0.40 ms	589 ohms	No
LV3 to RVcoil	1.2 years less	1.25 V @ 0.40 ms	399 ohms	Yes: 4.00 V @ 0.40 ms
LV3 to LV1	Maximum	0.50 V @ 0.40 ms	665 ohms	No
LV3 to LV2	1.0 years less	1.50 V @ 0.40 ms	513 ohms	No
LV3 to LV4	10 months less	1.25 V @ 0.40 ms	551 ohms	No
LV4 to RVcoil	2.7 years less	2.25 V @ 0.40 ms	304 ohms	No
LV4 to LV1	1.0 years less	2.00 V @ 0.40 ms	608 ohms	No
LV4 to LV2	1.8 years less	2.50 V @ 0.40 ms	589 ohms	No
LV4 to LV3	1.8 years less	2.50 V @ 0.40 ms	551 ohms	No

Edit... | Undo | Test | PROGRAM | Close

Other Quadripolar LV Lead with Wide Electrode Spacing

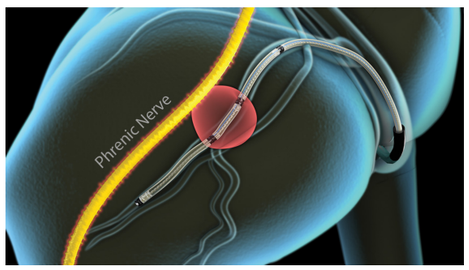


Illustration of wide electrode spacing with larger electrical field, phrenic nerve stimulated.

Attain Performa with Short Bipolar Spacing

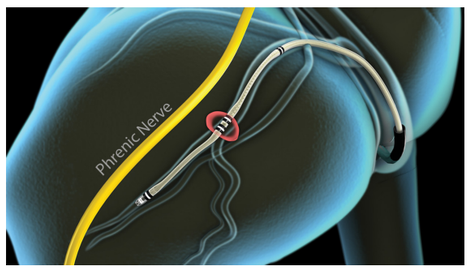


Illustration of short bipolar spacing with smaller electrical field, phrenic nerve not stimulated.

COMPIA MRI INCLUDES

- Full Body MRI (1.5T and 3T)
- PhysioCurve™ Design
- CardioSync™ Optimisation
- VectorExpress™ LV Automated Test
- SmartShock™ Technology
- OptiVol™ 2.0 Fluid Status Monitoring
- MVP™ Mode with Complete Capture Management™ Diagnostic (ACM, RVCM, LVCM)

References

[1] Medtronic data on file 2015: Data from MarketScan® 2012 Commercial and Medicare Database, Truven Health Analytics.

[2] Karamitsos TD, Francis JM, Myerson S, Selvanayagam JB, Neubauer S. The role of cardiovascular magnetic resonance imaging in heart failure. *J Am Coll Cardiol*. October 6, 2009;54(15):1407-1424.

[3] Yarnykh VL, Terashima M, Hayes CE, et al. Multicontrast black-blood MRI of carotid arteries: comparison between 1.5 and 3 tesla magnetic field strengths. *J Magn Reson Imaging*. May 2006;23(5):691-698.

[4] http://www.biomedsearch.com/article/Cardiovascular-MRI-at-3T/209239236.html

[5] http://www.medscape.com/viewarticle/566817.

Brief Statement
See the MRI SureScan™ Technical Manual before performing an MRI Scan and Device Manual for detailed information regarding the implant procedure, indications, contraindications, warnings, precautions, and potential complications/adverse events.

www.medtronic.com/manuals

Consult instructions for use on this website. Manuals can be viewed using a current version of any major Internet browser. For best results, use Adobe Acrobat® Reader with the browser.

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