EL ICD
Extended Longevity

LONGEVITY. Amplified.
Boston Scientific ICDs and CRT-Ds have the longest projected longevities on the market – with up to 80% more battery capacity than Medtronic devices.¹

The EL ICD is projected to last up to 11.7 years.²

**Cut the risk.**
Better ICD longevity could lead to reduced risk of exposure to infections and complications for your patients.³⁻⁵

Visit thebeat.bostonscientific.com/longevity to learn more.
Multiple clinical studies confirm Boston Scientific CRT-Ds outperformed Medtronic CRT-Ds9-12*

- **2014 Ellis Study**: Ampere Hour (Ah) as a Predictor of CRT-ICD Pulse Generator Battery Longevity was a multi-center, retrospective, observational study comparing battery longevity of contemporary cardiac resynchronization therapy defibrillators (CRT-Ds) of all patients implanted with CRT-ICDs from August 1, 2008, to December 31, 2010, at 5 major institutions.13

- **2014 Johansen Study**: Device Longevity in Cardiac Resynchronization Therapy Implantable Cardioverter Defibrillators Differs Between Manufacturers: Data from the Danish ICD Registry was the second independent, retrospective study inclusive of devices with contemporary battery technology.14

- **2014 Williams Study**: Contemporary Cardiac Resynchronization Implantable Cardioverter Defibrillator Battery Longevity in a Community Hospital Heart Failure Cohort was the third independent, retrospective study inclusive of devices with contemporary battery technology.15

Boston Scientific CRT-Ds in these studies were powered by ENDURA™Battery Technology.
Uncompromised Set of Features

Contemporary Boston Scientific devices achieve a 30% energy consumption reduction while also offering increased features and functionality. 

Onset EGM
Unlike other manufacturers, Boston Scientific’s 3-channel EGM Onset is turned On permanently and does not impact battery longevity. 

LATITUDE™ NXT
Patient Management System
Interrogations are all initiated by the Communicator. Daily checks for alerts are included in the published longevity estimates. With other manufacturers, longevity projections do not account for daily alert communications. 

Appropriate Therapy
AcuShock™ Advanced allows physicians to customize the Rhythm ID™ algorithm to reduce inappropriate therapy. 

Lead Reliability
ENDOTAK RELIANCE™ is the industry’s most reliable lead with a survival probability of 98.4% at ten years. This family of leads maintains the same core design elements that have made Boston Scientific the leader in ICD lead reliability for the past 20 years.
ICD Systems from Boston Scientific – DYNAGEN™ EL ICD, DYNAGEN™ MINI ICD, INOGEN™ EL ICD, INOGEN™ MINI ICD, ORIGEN™ EL ICD, ORIGEN™ MINI ICD

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. Program the pulse generator Tachy Model(s) to Off during implant, explant, or postmortem procedures to avoid inadvertent high voltage shocks. 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 so that the patient require emergency. Patients should 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. Do not expose a patient to MRI scanning. 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. 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 use this pulse generator with another pulse generator. This combination could cause pulse generator interaction, resulting in patient injury or a lack of therapy delivery. Do not kink, twist, or braid the lead with other leads as doing so could cause lead insulation abrasion damage or conductor damage. Do not use atrial tracking modes in patients with chronic refractory atrial tachyarrhythmias. Tracking of atrial tachyarrhythmias could result in ventricular tachyarrhythmias.

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, supplemental precautionary information.

POTENTIAL ADVERSE EVENTS: Potential adverse events include, but are not limited to, the following: allergic/physiologic/psychologic 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 A)

All trademarks are the properties of their respective owners.

Sources
1Boston Scientific CRT-Ds with contemporary battery technology have 1.8 Ah. Medtronic CRT-Ds have 1.0 Ah.
5Ramachandra. Impact of ICD Battery Longevity on Need for Device Replacements. PACE 2010; 33:314–319
6Boston Scientific CRT-Ds and CRT-Ds with contemporary battery technology have 1.8 Ah. Medtronic CRT-Ds and CRT-Ds have 1.0 Ah.
7Data on file at Boston Scientific Corporation.
9Ellis C, Markus T, Dickerman D, Orton J, Hassan S, Good E, Ikabe T, Greenspon A. Ampere Hour as a Predictor of CRT ICD Pulse Generator Longevity: A Multi-Center Study. Presented at HFSA 2014. http://www.onlinejcf.com/article/S1071-9164(14)00337-6/fulltext. Ampere Hour (Ah) as a Predictor of CRT ICD Pulse Generator Longevity Study. The five major institutions performing the study include, at Vanderbilt University, Eastside Cardiovascular Medicine, University of Michigan, Thomas Jefferson University, Robert Wood Johnson University Hospital, Cooper Health System and North Ohio Research. Boston Scientific = 173 patients, Medtronic = 587 patients, St. Jude Medical = 153 patients. Survival rate calculated using device replacements for battery depletion as indicated by ERI.
11Haab J, Hjorthøj S, Johansen J, Jorgensen O, Nielsen J, Petersen H. Device Longevity in Cardiac Resynchronization Therapy Implantable Cardioverter Defibrillators Differs Between Manufacturers: Data from the Danish ICD Registry. Presented at HRS 2014. http://ordemand.hrsonline.com/common/presentation-detail.aspx/15/05/1241/9600. Boston Scientific = 136 patients, Medtronic = 651 patients, St. Jude Medical = 1,587 patients, Biotronik = 863 patients. Time to exchange of the device because of battery depletion or device failure recorded in the Danish ICD Registry was the endpoint.
13Compared to Boston Scientific ICDs prior to TELEGEN® ICD. Data on file at Boston Scientific Corporation.

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